



Parts Catalog

Document Number: UG-014JDCUPKCAYA

Revision: 11

Revision Date: October 1 2014

Replacement Parts for

John Deere®, Cummins® (Mid - Range), Perkins®, Caterpillar® & Yanmar®

Diesel Engines

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IMPORTANT

***WE ARE CONSTANTLY ADDING NEW ITEMS TO OUR LINE
CLICK ON "New Products" IN OUR WEB PAGE OR CALL US FOR MORE DETAILS***

Introduction to Catalog UG-014JDCUPKCAYA-2014

Maxiforce, Inc. is a company devoted to the manufacture and distribution of replacement parts for diesel engines. We are very proud and satisfied to have grown steadily for more than a decade, while maintaining a loyal customer base.

Maxiforce, Inc., has very well defined goals:

- To provide top quality replacement parts, at competitive prices, for **John Deere®** diesel engines, **Cummins® - Consolidated Diesel (Mid-Range)** engines, **Perkins®** diesel and gasoline engines, **Caterpillar®** engines and **Yanmar®** engines.
- To make these parts immediately available from stock by maintaining a complete inventory.
- To provide technical expertise and advice through a knowledgeable and highly experienced customer service department.
- To offer the most user friendly, yet detailed catalog in the industry. Thus:

We proudly present our CATALOG UG-014JDCUPKCAYA-2014, which incorporates five color coded sections for John Deere (Green), Cummins-CDC - Midrange -(Red), Perkins (Blue), Caterpillar (Yellow), and Yanmar (Orange). At the beginning of each section you will find an intro-ductory page to address the specifics of the engine brands covered by this catalog.

This catalog is designed to provide a practical and simple way to determine the correct parts required to repair these engines. Any comments or suggestions regarding the content of this catalog will be greatly appreciated.

Please read this catalog very carefully. Although Maxiforce has gone to great lengths to provide for the accuracy of all printed material, we do not take responsibility for incorrect information. You must always read your OE engine Technical Manual for proper installation and use of product. In case of doubt call our technical support Hot Line: 800-414-2095, our technicians will be very pleased to provide the necessary help.

Parts and prices are subject to change without notice

John Deere® is the registered trademark of Deere & Co., Cummins® is the registered trademark of Cummins Inc., Perkins® is the registered trademark of Perkins Engines Ltd., Caterpillar® and Cat® are the registered trademark of Caterpillar Inc., Yanmar® is the registered trademark of Yanmar Diesel Engine Co., Manufacturer's names, numbers, symbols and descriptions are used solely for reference purposes, not implying that any part listed is the product of these manufacturers. Maxiforce is in no way affiliated to any of these manufacturers.

Warranty and Policies

All **Maxiforce** replacement parts are warranted to be free from defects in material and workmanship under normal operating conditions.

Warranty coverage will extend for one year from the date of invoice, without regard to hours of operation. **Maxiforce** will pay for all labor and parts needed to repair the warrantable failure.

CONDITIONS AND LIMITATIONS:

Maxiforce must be notified by the customer before filing a warranty claim, or before any work has been performed. All claims must be submitted in writing and **Maxiforce** reserves the right to examine all elements involved in the claim.

Price of parts will be based on **Maxiforce's** current price list and cost of labor will be a reasonable flat hourly rate. Overtime and holiday rates are not accepted.

This warranty is extended exclusively to direct customers of **Maxiforce** and not to any other party. All other warranties, expressed or implied, including warranties of merchantability and/or fitness for a particular purpose are excluded.

This warranty will not apply to any **Maxiforce** part altered from its original specifications or which has been misused, exposed to deteriorating conditions, negligence or accidental damage.

CLAIMS & RETURNS

Maxiforce should be advised of all claims within five days of receipt of merchandise, either by fax, telephone, e-mail or mail.

Maxiforce will not accept returned products without prior written authorization from **Maxiforce**. All return requests must be submitted in advance for approval. A Return Goods Authorization (**RMA**) number must be obtained from **Maxiforce** for all returned parts. All parts should be returned by prepaid freight unless otherwise stated. If sent collect, freight amount will be charged to customer. Products returned that are dirty, in un-saleable condition or that were ordered in error by our customer, will be subject to a 15% restocking fee. Any parts that are returned in a used or damaged condition, will not be considered for credit. All **RMA's** must be received within 30 days of issued. **RMA's** not received will be voided. International orders will be credited in case of under shipment. Credits require **30 days** to process from date of receipt of merchandise. Customers must keep all information on return, including **RMA** number and tracking number.

Maxiforce claims no obligation to issue credit on obsolete products.

Products will not be considered for credit after 1 year from invoice date.

Gasket sets that have been opened or re-taped will not be considered for credit.

BACKORDER POLICY

Backorders will be cancelled unless otherwise stated.

CREDIT POLICY

All products will be sold on a C.O.D. basis or you may use any major credit card until and if credit is approved.

- All invoices will be payable by the 10th of the next month (Net 10th).
- Accounts that go past 60 days past due will be placed on C.O.D shipping status.
- A 1.5% monthly interest fee will be charged to all accounts 30 days past due.

FREIGHT POLICY

Within the Continental U.S.A., **Maxiforce** will prepay freight on all shipments over \$2000.00 or those consisting of 4 or more overhaul engine kits. All prices are **F.O.B** our warehouses .

MINIMUM PURCHASE ORDER POLICY

Due to high order-processing costs, a \$10.00 handling surcharge will be added to all orders under \$50.00.

Abbreviations used throughout this catalog:

A	Turbo Aftercooled	(m)	Marked
A/C	Air Conditioned	MF	Massey Ferguson
AG	Agricultural	N/A	Not Available
BLK	Engine Block	O/H	Overhaul
CDC	Consolidated Diesel	OK	Overhaul Kit
CPL	Control Part List	O/S	Oversize
C/H	Cylinder Head	P.T.	PowerTech
C/R	Connecting Rod	Q	Quantity
C/S	Crankshaft	SBS	Short Block Serial Number.
D	Diesel, Naturally Aspirated	STD	Standard
ESN	Engine Serial No	T	Turbocharged
I/E	Intake/Exhaust	TS	Tractor Serial Number.
I/F	In Frame	U/S	Undersize
IK	In Frame Kit		

(1) Please refer to **RED Numbered Cells** in each page.
They are the source of important information.

Serial Number References:

> 154,165	Denotes: from 1 up to 154,165
215,000 - 335,845	Denotes: in between the two serial numbers
335,846 >	Denotes: from 335,846 up

Introduction to John Deere® Section

Diesel Engine models covered by this User's Guide

300 Series (OEM): US and EUROPEAN Versions. Naturally Aspirated & Turbo Charged

NUMBER OF CYLINDERS	BORE-3.86"/ 98 mm STROKE-4.33"/ 110 mm	BORE-4.02"/ 102 mm STROKE-4.33"/ 110 mm	BORE-4.19"/ 106.5 mm STROKE-4.33"/ 110 mm	BORE-4.19"/ 106.5 mm STROKE-5.00"/ 127 mm
3 cyl	3.152	3.164	3.179 / 3029*	
4 cyl	4.202	4.219	4.239 / 4039*	4.276 / 4045*
6 cyl	6.303	6.329	6.359 / 6059*	6.414 / 6068*

400 Series: Naturally Aspirated & Turbo Charged

NUMBER OF CYLINDERS	BORE-4.25"/ 108 mm STROKE-4.75"/ 121 mm	BORE-4.56"/ 116 mm STROKE-4.75"/ 121 mm
4 cyl	4.270	
6 cyl	6.404	6.466 / 6076*

500 Series: Naturally Aspirated & Turbo Charged

NUMBER OF CYLINDERS	BORE-4.75"/ 121 mm STROKE-5.00"/ 127 mm	BORE-5.12"/ 130 mm STROKE-5.00"/ 127 mm
6 cyl	6.531	6.619 / 6101*

PowerTech Series: Naturally Aspirated & Turbo Charged

NUMBER OF CYLINDERS	BORE-4.19"/ 106.5 mm STROKE-4.33"/ 110 mm	BORE-4.19"/ 106.5 mm STROKE-5.00"/ 127 mm	BORE-4.56"/ 116 mm STROKE-5.06"/ 129 mm
3 cyl	3029 (2.9L)		
4 cyl		4045 (4.5L)	
6 cyl		6068 (6.8L)	6081 (8.1L)

* Liter designated engines.

John Deere Data Plate Information

In as much as possible please provide your John Deere data information to your Maxiforce Sales representative.

The John Deere Data Plate is divided into the ESN (Engine Serial Number) and the Engine Application Data. Below are examples:

1) **Engine Serial Number:** TO 4045T 123456
 1 2 3

- 1- Factory Origin
- 2- Engine Model
- 3- Sequential Serial Number

2) **Engine Application Data:** TO 4045T F150. This information is used to identify the OEM relationship or equipment application. Very Important!

Maxiforce Engine Kit Composition for John Deere® Applications

Engine Overhaul Kits Include: All required piston-liner kits, pins and retainers, engine bearings, crankshaft seals, complete overhaul gasket set, cam or balance shaft bushings, piston bushings, injector grommets, and connecting rod bolts.

Engine In Frame Kits Include: All required piston-liner kits, pins and retainers, engine bearings, head gasket set, oil pan gasket and connecting rod bolts.

Engine & Equipment Application Chart

This chart refers to engine and equipment models. It has been divided into several sections: *OEM Engines; Farm Equipment; Construction Equipment; Skidders, Feller Bunchers, Forklifts, Compactors; and other OEM applications.* The Chart will offer the reader the desired Model and will indicate the page number where engine components are described in detail.

Whenever possible, please verify Engine Model with that of the Equipment *since re-power may have occurred.*

OEM Engine & Power Unit Application Chart

300 Series (OEM)

MODEL	COMMENTS	PAGE
3.152	O'rings on liner	T01
3.152	O'rings on block	T02
3.164	Small pin, O'rings on liner	T03
3.164	Small pin, O'rings on block	T04
3.164	Large pin, O'rings on block	T05
3.179D		T06
3029D	Liter designated	T07
3.179T		T08
3029T	Liter designated	T09
4.202	O'rings on liner	T10
4.202	O'rings on block	T11
4.219	Small pin, O'rings on liner	T12
4.219	Small pin, O'rings on block	T13
4.219	Large pin, O'rings on block	T14
4.239D		T15
4039D	Liter designated	T16
4.239T	See Con.Rod (m)	T17
4039T	Liter designated	T18
4.276D	Small pin	T19
4.276D	Large pin	T20
4045D	Liter designated	T21
4.276T		T22
4045T	Liter designated	T23
6.303	O'rings on liner	T24
6.303	O'rings on block	T25
6.329	Small pin, O'rings on liner	T26
6.329	Small pin, O'rings on block	T27
6.329	Large pin, O'rings on block	T28
6.359D		T29
6059D	Liter designated	T30
6.359T		T31
6059T	Liter designated	T32
6.414D	Large pin	T33
6068D	Liter designated, Large pin	T34
6.414T		T35
6068T	Liter designated	T36

400 Series

MODEL	COMMENTS	PAGE
4.270	See block (m)	T37
4.270	See block (m)	T38
4.270	Early power booster	T39
4.270	See block (m)	T40
6.404D	See block (m)	T41

MODEL	COMMENTS	PAGE
6.404D	See block (m)	T42
6.404D	Early power booster	T43
6.404D	See block (m)	T44
6.404D	See block (m)	T45
6.404T/A	> 335,845	T46
6.404T/A	335,846 >	T47
6.466D	See Con.Rod (m)	T48
6.466A/T	See Con.Rod (m)	T49
6.466A/T	See Con.Rod (m)	T50
6.466A	See Con.Rod (m)	T51
6076T/A/H	Low Ring Piston	T52
6076T/A/H	High Ring Piston	T53

500 Series

MODEL	COMMENTS	PAGE
6.531D	See Con.Rod (m)	T54
6.531T	See Con.Rod (m)	T55
6.531A	See Con.Rod (m)	T56
6.619A/T	Early	T57
6.619A/T	Mid	T58
6.619A/T	Late	T59
6.101A/T	> 499,999	T60

John Deere® / Yanmar®

MODEL	COMMENTS	PAGE
3TNE84	84mm Bore Non Turbo	T61
4TNE84	84mm Bore Non Turbo	T62
4TNE84T	84mm Bore Turbo	T63
3TNE88	88mm Bore Non Turbo	T64
4TNE88	88mm Bore Non Turbo	T65
3TNV84/T	84mm Bore Non Turbo & Turbo	T66
4TNV84	84mm Bore Non Turbo	T67
4TNV84T	84mm Bore Turbo	T68
3TNV88	88mm Bore Non Turbo	T69
4TNV88	88mm Bore Non Turbo	T70

Engine & Equipment Application Chart

PowerTech

MODEL	COMMENTS	PAGE
3029 (2.9D)	Piston (m) RE61467/RE500210	T71
3029 (2.9T)	Piston (m) RE61270	T72
4045D (4.5D)	Piston (m) RE59279/RE505101	T73
4045T (4.5T)	Piston (m) RE59277/RE505100	T74
4045 (4.5T/H)	Piston (m) RE55512/RE505102	T75
4045 (4.5T/H)	Piston (m) RE521616	T76
4045 (4.5T/H)	Piston (m) RE527039	T77
6068D (6.8D)	Piston (m) RE59279/RE505101	T78
6068T (6.8T)	Piston (m) RE59277/RE505100	T79
6068 (6.8T/H)	Piston (m) RE55512/RE505102	T80
6068 (6.8T/H)	Piston (m) RE521616	T81
6068 (6.8T/H)	Piston (m) RE527039	T82
6081 (8.1L)	High Compression Piston	T83
6081 (8.1L)	Low Compression Piston	T84
6090 (9.0L)		T85

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE	MODEL	DESCRIPTION	COMMENTS	PAGE
380GLC	Excavator	*	T85	1040	Farm Tractor		T06
350DLC	Excavator	*	T85	1052	Combine		T17
350GLC	Excavator	*	T85	1055	Combine		T29
499	Cotton Picker	4,219 Eng	T13	1075	Combine		T29
499	Cotton Picker	4,219 Eng	T14	1130	Farm Tractor		T14
499	Cotton Picker	6,329 Eng	T27	1140	Farm Tractor		T06
499	Cotton Picker	6,329 Eng	T28	1155	Combine		T17
670G	Motor Grader	*	T85	1170E	Wheeled Harvester		T81
670GP	Motor Grader	*	T85	1185	Combine		T53
670GP	Motor Grader	*	T85	1270D	Harvester		T83
672G	Motor Grader	*	T85	1270D	Wheeled Harvester	*	T85
672G	Motor Grader	*	T85	1270D	Harvester	*	T85
672GP	Motor Grader	*	T85	1270D	Harvester	*	T85
699	Cotton Picker	*	T44	1270E	Harvester	*	T85
699	Cotton Picker	*	T45	1270E	Wheeled Harvester	*	T85
703JH	Tracked Harvester	*	T85	1350	Farm Tractor		T06
753JH	Tracked Harvester	*	T85	1420	Farm Tractor		T04
759J	Tracked Harvester	*	T85	1450CWS	Combine		T81
759JH	Tracked Harvester	*	T85	1450CWS	Combine		T82
770G	Motor Grader	*	T85	1450WTS	Combine		T81
770GP	Motor Grader	*	T85	1450WTS	Combine		T82
772G	Motor Grader	*	T85	1470	Combine		T82
772GP	Motor Grader	*	T85	1470D	Harvester		T83
790	Utility Tractor		T61	1470D	Wheeled Harvester	*	T85
820	Farm Tractor	*	T01	1470E	Harvester	*	T85
820	Farm Tractor	*	T02	1505	Prof Mower		T70
830	Farm Tractor		T02	1515	Prof Mower		T70
870G	Motor Grader	*	T85	1520	Farm Tractor	*	T03
870G	Motor Graders	*	T85	1520	Farm Tractor	*	T04
870GP	Motor Graders	*	T85	1530	Farm Tractor		T04
872G	Motor Graders	*	T85	1530	Farm Tractor		T05
872G	Motor Grader	*	T85	1550	Farm Tractor		T06
872GP	Motor Graders	*	T85	1550CWS	Combine		T81
903KH	Tracked Harvester	*	T85	1550CWS	Combine		T82
909KH	Tracked Harvester	*	T85	1550WTS	Combine		T81
940	Combine		T15	1550WTS	Combine		T82
942	Combine		T15	1565	Mower		T64
945	Combine		T17	1565	Front Mower		T69
950	Combine		T28	1600	Turbo Mower		T63
952	Combine		T17	1600	Mower		T65
955	Combine		T29	1600	Series II Mower		T68
960	Combine		T28	1620	Mower		T65
975	Combine		T29	1630	Farm Tractor		T06
985	Combine		T29	1635	Farm Tractor		T14
990	Utility Tractor		T62	1640	Farm Tractor		T15
990	Utility Tractor		T67	1654	Tractor		T82
1020	Farm Tractor		T01	1750	Farm Tractor		T06
1020	Farm Tractor		T02	1840	Farm Tractor		T15
1030	Farm Tractor	*	T01	1850	Farm Tractor		T06
1030	Farm Tractor	*	T02	1854	Tractor		T82
1035	Farm Tractor		T14	1905	Reel Mower		T70

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
2020	Farm Tractor	*	T10
2020	Farm Tractor	*	T11
2030	Farm Tractor	*	T13
2030	Farm Tractor	*	T14
2035	Farm Tractor		T14
2040	Farm Tractor	*	T05
2040	Farm Tractor	*	T06
2054	Tractor		T82
2066	Combine		T53
2120	Farm Tractor	*	T11
2120	Farm Tractor	*	T13
2120	Farm Tractor	*	T14
2130	Farm Tractor		T15
2135	Farm Tractor		T15
2140	Farm Tractor		T17
2150	Farm Tractor		T06
2155	Farm Tractor		T06
2240	Farm Tractor		T06
2250	Farm Tractor		T15
2256	Combine		T83
2258	Combine		T83
2264	Combine		T83
2266	Extra Combine		T84
2266	Combine		T84
2270	Windrower	*	T13
2270	Windrower	*	T14
2280	Windrower		T14
2320	Windrower	*	T13
2320	Windrower	*	T14
2330	Farm Tractor		T05
2350	Farm Tractor		T15
2355	Farm Tractor		T15
2355CS	Farm Tractor	*	T15
2355NCS	Farm Tractor		T08
2355NTSS	Farm Tractor		T08
2555CS	Farm Tractor		T15
2555TSS	Farm Tractor		T17
2360	Windrower		T15
2420	Windrower		T13
2440	Farm Tractor		T14
2450	Farm Tractor		T15
2450	Farm Tractor		T17
2510	Farm Tractor	*	T10
2510	Farm Tractor	*	T11
2520	Farm Tractor		T12
2530	Farm Tractor		T14
2535	Farm Tractor	Mexico	T15
2550	Farm Tractor		T15
2555	Farm Tractor		T17

MODEL	DESCRIPTION	COMMENTS	PAGE
2630	Farm Tractor		T19
2640	Farm Tractor		T19
2650	Farm Tractor		T15
2650	Farm Tractor		T17
2720	Utility Tractor		T70
2730	Farm Tractor	Argentina	T15
2735	Farm Tractor	Mexico	T15
2750	Farm Tractor		T17
2755	Farm Tractor		T17
2755CS	Farm Tractor		T17
2755TSS	Farm Tractor		T17
2840	Farm Tractor		T28
2850	Farm Tractor		T17
2854	Tractor	*	T85
2855	Farm Tractor		T17
2855N	Farm Tractor		T17
2940	Farm Tractor		T29
2954D	Forestry Sw Machine		T81
2950	Farm Tractor		T29
2955	Farm Tractor	*	T29
2955	Farm Tractor	*	T30
3010	Farm Tractor		T38
3010	Farm Tractor		T39
3020	Farm Tractor	*	T37
3020	Farm Tractor	*	T38
3020	Farm Tractor	*	T39
3020	Farm Tractor	*	T40
3032E	Utility Tractor		T69
3036E	Utility Tractor		T66
3038E	Utility Tractor		T66
3040	Farm Tractor		T29
3050	Farm Tractor		T29
3100	Farm Tractor		T71
3120	Utility Tractor		T66
3120	Farm Tractor	*	T26
3120	Farm Tractor	*	T27
3130	Farm Tractor		T28
3140	Farm Tractor	Spain	T29
3140C	Farm Tractor	*	T31
3140C	Farm Tractor	*	T32
3150	Farm Tractor		T29
3155	Farm Tractor	*	T29
3155	Farm Tractor	*	T30
3155TSS	Farm Tractor	*	T29
3155TSS	Farm Tractor	*	T30
3203	Utility Tractor		T66
3225B	Mower		T61
3225C	Fairway Mowers		T66
3235	Mower		T61
3235A	Mower		T61
3235B	Mower		T61

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
3235C	Fairway Mowers		T66
3245C	Rotary Deck Mower		T66
3255	Farm Tractor	*	T29
3255	Farm Tractor	*	T30
3300	Combine		T14
3320	Utility Tractor		T69
3330	Farm Tractor	Argentina	T15
3350	Farm Tractor		T29
3410	Farm Tractor		T74
3410X	Farm Tractor		T74
3420	Farm Tractor		T25
3430	Windrower	Early	T15
3430	Windrower	Late	T17
3510	Cane Harvester	(NW S.N > 060036)	T84
3510	Cane Harvester	(NW S.N 060037>)	T84
3510	Cane Harvester	SN 070301-070460	T84
3510	Cane Harvester	SN 080401-080626	T84
3520	Utility Tractor		T66
3520	Sugar Cane Harvester	*	T85
3522	Sugar Cane Harvester	*	T85
3530	Farm Tractor		T28
3540	Farm Tractor		T31
3550	Farm Tractor		T31
3640	Farm Tractor	*	T29
3640	Farm Tractor	*	T30
3650	Farm Tractor		T30
3720	Utility Tractor		T66
3754D	Forestry SW machine	*	T85
3830	Windrower		T17
4000	Farm Tractor		T44
4010	Farm Tractor	*	T41
4010	Farm Tractor	*	T42
4010	Farm Tractor	*	T43
4010	Farm Tractor	*	T44
4020	Farm Tractor	*	T41
4020	Farm Tractor	*	T42
4020	Farm Tractor	*	T43
4020	Farm Tractor	*	T44
4030	Farm Tractor	6.329 Eng	T27
4030	Farm Tractor	6.329 Eng	T28
4040	Farm Tractor		T45
4050	Farm Tractor		T31
4050	Farm Tractor		T48
4055	Farm Tractor		T53
4105	Utility Tractor		T66
4230	Farm Tractor		T45
4240	Farm Tractor		T48
4250	Farm Tractor		T50
4255	Farm Tractor		T53
4300	Utility Tractor		T61
4310	Utility Tractor		T61

MODEL	DESCRIPTION	COMMENTS	PAGE
4320	Combine	*	T46
4320	Combine	*	T47
4400	Utility Tractor		T64
4400	Combine		T28
4405	Utility Tractor		T70
4410	Utility Tractor		T64
4420	Farm Tractor	*	T27
4420	Farm Tractor	*	T29
4425	Farm Tractor		T28
4430	Farm Tractor		T47
4440	Farm Tractor	*	T49
4440	Farm Tractor	*	T50
4450	Farm Tractor		T50
4455	Farm Tractor		T53
4475	Skid Steer		T61
4500	Utility Tractor		T62
4510	Utility Tractor		T62
4520	Farm Tractor		T46
4530	Farm Tractor		T29
4555	Farm Tractor		T53
4560	Farm Tractor		T53
4600	Utility Tractor		T62
4610	Utility Tractor		T62
4620	Farm Tractor		T46
4630	Farm Tractor		T47
4640	Farm Tractor	*	T49
4640	Farm Tractor	*	T50
4650	Farm Tractor		T50
4700	Utility Tractor		T65
4700	Sprayer		T80
4710	Utility Tractor		T65
4730	Self Propelled Sprayer		T81
4755	Farm Tractor	*	T53
4760	Farm Tractor	*	T53
4830	Self Propelled Sprayer		T81
4840	Farm Tractor	*	T49
4840	Farm Tractor	*	T51
4850	Farm Tractor		T51
4890	Farm Tractor		T74
4895	Windrower		T74
4920	Sprayer		T84
4930	Self-Propelled Sprayer	*	T85
4940	Self-Propelled Sprayer	*	T85
4955	Farm Tractor		T52
4960	Farm Tractor		T52
5000	Farm Tractor		T06
5020	Farm Tractor		T54
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5080RN	Tractor		T77
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5105M	Tractor		T77
5105ML	Tractor		T77
5200	Farm Tractor		T07
5200	Farm Tractor		T71
5205	Farm Tractor		T71
5210	Farm Tractor	*	T71
5220	Farm Tractor		T71
5300	Farm Tractor		T07
5300	Farm Tractor		T71
5310	Farm Tractor	*	T71
5310N	Farm Tractor	*	T71
5400	Farm Tractor		T07
5400	Farm Tractor		T72
5400N	Farm Tractor		T72
5410	Farm Tractor	*	T73
5415	Farm Tractor	*	T73
5415	Farm Tractor	*	T74
5420	Farm Tractor		T73
5420N	Farm Tractor		T73
5425	Farm Tractor		T74
5425N	Farm Tractor		T74
5430I	Sprayer		T81
5440	Farm Tractor	*	T46
5440	Farm Tractor	*	T47
5460	Farm Tractor		T50
5500	Farm Tractor		T09
5500N	Farm Tractor		T18
5510	Farm Tractor	*	T73
5510	Farm Tractor	*	T74
5510N	Farm Tractor		T74
5520	Farm Tractor		T74
5520N	Farm Tractor		T74
5525	Farm Tractor		T74
5525N	Farm Tractor		T74
5575	Skid Steer		T64
5600	Farm Tractor		T16
5615	Farm Tractor	*	T73
5615	Farm Tractor	*	T74
5625	Farm Tractor		T74
5625N	Farm Tractor		T74
5700	Farm Tractor		T18
5715	Farm Tractor	*	T73
5715	Farm Tractor	*	T74
5720	Forage Harvester	*	T49
5720	Forage Harvester	*	T50
5720	Forage Harvester	*	T51
5725	Farm Tractor	*	T74
5730	Forage Harvester	*	T50

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6010	Farm Tractor	*	T73
6010	Farm Tractor	*	T75
6030	Farm Tractor	*	T54
6030	Farm Tractor	*	T56
6100	Farm Tractor		T21
6100D	Tractor		T77
6110	Farm Tractor		T73
6110	Farm Tractor		T75
6110D	Tractor		T77
6110L	Farm Tractor		T75
6115D	Tractor		T77
6125D	Tractor		T77
6130	Tractor		T77
6130D	Tractor		T77
6140D	Tractor		T77
6200	Farm Tractor		T18
6200L	Farm Tractor		T18
6205	Farm Tractor	*	T78
6210	Farm Tractor	*	T18
6210	Farm Tractor	*	T75
6210L	Farm Tractor		T75
6225	Tractor		T82
6230	Tractor		T77
6300	Farm Tractor		T18
6300L	Farm Tractor		T18
6310	Farm Tractor	*	T18
6310L	Farm Tractor		T75
6310S	Farm Tractor		T75
6325	Tractor		T77
6330	Tractor		T77
6400	Farm Tractor		T23
6400L	Farm Tractor		T23
6405	Farm Tractor		T75
6410	Farm Tractor	*	T75
6410L	Farm Tractor	*	T75
6410S	Farm Tractor	*	T75
6425	Tractor		T77
6430	Tractor		T77
6430	Tractor		T76
6500	Farm Tractor		T23
6500L	Farm Tractor		T23
6505	Farm Tractor	*	T78
6506	Farm Tractor		T34
6510	Farm Tractor	*	T78
6510L	Farm Tractor	*	T75
6510S	Farm Tractor		T75
6515	Farm Tractor	*	T78
6520	Farm Tractor	*	T78
6525	Tractor		T82
6530	Tractor		T82

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6600	Combine		T45
6600	Combine		T47
6602	Combine		T15
6602	Combine		T50
6603	Farm Tractor		T79
6605	Farm Tractor		T75
6605	Farm Tractor		T80
6610	Farm Tractor	*	T73
6610	Farm Tractor	*	T75
6610	Forage Harvester	*	T84
6615	Farm Tractor		T80
6620	Combine	*	T48
6620	Combine	*	T49
6620	Combine	*	T50
6622	Farm Tractor	*	T49
6622	Farm Tractor	*	T50
6630	Tractor		T82
6650	Forage Harvester		T84
6675	Skid Steer		T62
6700	Sprayer	*	T23
6700	Sprayer	*	T74
6715	Farm Tractor	*	T80
6800	Farm Tractor		T36
6830	Tractor		T82
6900	Farm Tractor		T36
6930	Tractor		T82
7130	Tractor		T82
7130	Tractor		T76
7180	Self-Propelled Forage Harv	*	T85
7195J	Tractor		T81
7200	SPFH (EUROPE)	*	T85
7200	Farm Tractor	*	T31
7200	Farm Tractor	*	T32
7200	Forage Harvester	*	T84
7210	Farm Tractor	*	T80
7210	Farm Tractor	*	T80
7210J	Tractor		T81
7225J	Tractor		T81
7230	Tractor		T82
7250	Self-Propelled Forage Harv	*	T85
7330	Tractor		T82
7400	Mower		T66
7400	Farm Tractor		T36
7405	Farm Tractor		T80
7410	Farm Tractor	*	T36
7410	Farm Tractor	*	T80
7430	Tractor		T82
7430E	Tractor		T81

MODEL	DESCRIPTION	COMMENTS	PAGE
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7445	Cotton Picker	*	T29
7445	Cotton Picker	*	T31
7445	Cotton Picker	*	T32
7455	Cotton Picker		T79
7460	Cotton Picker		T79
7484	Cotton Picker	*	T31
7484	Cotton Picker	*	T32
7500	Forage Harvester		T36
7500	Mower		T66
7510	Farm Tractor		T80
7520	Farm Tractor		T56
7530	Tractor		T81
7530E	Tractor		T81
7600	Farm Tractor		T36
7610	Farm Tractor		T80
7630	Tractor		T81
7660	Cotton Picker	*	T85
7700	Combine	*	T45
7700	Combine	*	T47
7700	Farm Tractor		T53
7700	Mower		T66
7710	Combine		T83
7720	Combine	*	T49
7720	Combine	*	T50
7730	Tractor		T81
7775	Skid Steer		T65
7800	Farm Tractor		T53
7810	Farm Tractor		T83
7820	Farm Tractor		T83
7830	Tractor		T81
7920	Farm Tractor		T83
7930	Tractor		T81
8000	Mower		T66
8030	HDMFWD Tractor Atlas	*	T85
8030	ILS Tractor Atlas	*	T85
8030	Tractor Atlas	*	T85
8100	Farm Tractor		T53
8100	Farm Tractor		T83
8100T	Farm Tractor		T83
8110	Farm Tractor		T83
8110T	Farm Tractor		T83
8120	Farm Tractor		T83
8120T	Farm Tractor		T83
8130	AT2 ILS Tractor	*	T85
8130	AT2 MFWD Tractor	*	T85
8130	HDMFWD Tractor	*	T85
8130	ILS Tractor	*	T85
8130	MFWD Tractor	*	T85
8130	Tractor	*	T85
8200	Farm Tractor		T53

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8200T	Farm Tractor		T83
8210	Farm Tractor		T83
8210T	Farm Tractor		T83
8220	Farm Tractor		T83
8220T	Farm Tractor		T83
8225R	ILS Tractor	*	T85
8225R	MFWD Tractor	*	T85
8225R	Tractor	*	T85
8230	ILS Tractor	*	T85
8230	HDMFWD Tractor	*	T85
8230	MFWD Tractor	*	T85
8230	Tractor	*	T85
8230T	Tractor	*	T85
8235R	Tractor (Worldwide)	*	T85
8245R	HDMFWD Tractor	*	T85
8245R	Tractor	*	T85
8245R	ILS Tractor	*	T85
8245R	MFWD Tractor	*	T85
8260R	Tractor (Worldwide)	*	T85
8270R	HDMFWD Tractor	*	T85
8270R	ILS Tractor	*	T85
8270R	MFWD Tractor	*	T85
8270R	Tractor	*	T85
8285R	Tractor (Worldwide)	*	T85
8295R	HDMFWD Tractor	*	T85
8295R	ILS Tractor	*	T85
8295R	MFWD Tractor	*	T85
8295RT	Tractor	*	T85
8300	Farm Tractor		T53
8300	Farm Tractor		T83
8300T	Farm Tractor		T83
8310	Farm Tractor		T83
8310R	Tractor (Worldwide)	*	T85
8310RT	Tractor (Worldwide)	*	T85
8310T	Farm Tractor		T83
8320	Farm Tractor		T83
8320R	MFWD Tractor	*	T85
8320R	Tractor	*	T85
8320RT	Tractor	*	T85
8320T	Farm Tractor		T83
8330	ILS Tractor	*	T85
8330	Tractor	*	T85
8330	HD MFWD Tractor	*	T85
8330	MFWD Tractor	*	T85
8330T	Tractor	*	T85
8335R	Tractor (Worldwide)	*	T85
8335RT	Tractor (Worldwide)	*	T85
8345R	ILS Tractor	*	T85
8345R	MFWD Tractor	*	T85
8345R	Tractor	*	T85

MODEL	DESCRIPTION	COMMENTS	PAGE
8345RT	Tractor	*	T85
8400	Mower		T66
8400	Farm Tractor		T83
8400	Farm Tractor		T84
8400T	Farm Tractor		T83
8410	Farm Tractor		T84
8410T	Farm Tractor		T84
8420	Farm Tractor		T84
8420T	Farm Tractor		T84
8430	Farm Tractor	*	T49
8430	Farm Tractor	*	T51
8430	Farm Tractor	*	T85
8430T	Tractor	*	T85
8440	Farm Tractor	*	T49
8440	Farm Tractor	*	T51
8450	Farm Tractor	*	T49
8450	Farm Tractor	*	T51
8500	Mower		T66
8520	Farm Tractor		T84
8520T	Farm Tractor		T84
8530	Tractor	*	T85
8530	HDMFWD Tractor	*	T85
8530	ILS Tractor	*	T85
8560	Farm Tractor	*	T52
8570	Farm Tractor	*	T52
8630	Farm Tractor	ESN > 033814	T57
8630	Farm Tractor	ESN 033815-049059	T58
8630	Farm Tractor	ESN 049060 >	T59
8640	Farm Tractor	ESN 033815-049059	T58
8640	Farm Tractor	ESN 049060 >	T59
8650	Farm Tractor	ESN 033815-049059	T58
8650	Farm Tractor	ESN 049060 >	T59
8700	Mower		T66
8760	Combine		T60
8800	Mower		T66
8820	Combine	*	T49
8820	Combine	*	T51
8870	Farm Tractor		T60
9100	Farm Tractor		T83
9100	Farm Tractor		T84
9120	Farm Tractor		T84
9230	Tractor	*	T85
9400	Combine	*	T31
9400	Combine	*	T32
9400	Combine	*	T36
9410	Combine		T80
9500	Combine		T53
9510	Combine		T83
9510 SH	Combine		T83
9540i WTS	Combine		T81
9550	Combine		T83

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9560 STS	Sf Propelled Combine		T81
9560 STS	Combine		T84
9560 STS	Combine	*	T85
9560 WTS	Combine	(S.N > 080015)	T83
9560i STS	Sf-Propelled Combine	*	T85
9560i WTS	Combines		T81
9560i WTS	Combine	(S.N > 080015)	T83
9570 STS	Sf Propelled Combine		T81
9580	Combine	*	T85
9580 WTS	Combine	(S.N > 080015)	T83
9580 WTS	Combine	(S.N > 080015)	T84
9580i WTS	Combine		T81
9580i WTS	Combine	(S.N > 080015)	T83
9600	Combine		T53
9610	Combine		T84
9640	Combine	*	T85
9640 WTS	Combine		T83
9640 WTS	Combine		T84
9640i WTS	Combine		T83
9640i WTS	Combine		T84
9650	Combine		T84
9650 CTS	Combine		T84
9650 STS	Combine		T84
9660	Combine		T84
9660	Combine	*	T85
9660 CTS	Combine		T84
9660 STS	Combine		T84
9660 STS	Combine	*	T85
9660 STS	Sf-Propelled Combines	*	T85
9660 WTS	Combine		T84
9660i WTS	Combine		T84
9660STS	Sf-Propelled Combines	*	T85
9670 STS	Sf-Propelled Combines	*	T85
9680	Combine	*	T85
9680 WTS	Combine		T84
9680i WTS	Combine		T84
9750 STS	Combine		T84
9760 STS	Combine		T84
9760 STS	Sf-Propelled Combines	*	T85
9760STS	Sf-Propelled Combines	*	T85
9770 STS	Combine	*	T85
9780 CTS	Combine	(SN 071443-072697)	T84
9780 CTS	Combine	(S.N 072800 >)	T84
9780i CTS	Combine	(S.N 072800 >)	T84
9850i WTS	Combine	(S.N > 080015)	T84
9900	Cotton Picker	*	T29
9900	Cotton Picker	*	T30
9910	Cotton Picker	*	T29
9910	Cotton Picker	*	T30
9920	Cotton Picker	*	T29

MODEL	DESCRIPTION	COMMENTS	PAGE
9930	Cotton Picker	*	T31
9930	Cotton Picker	*	T32
9935	Cotton Picker		T79
9940	Cotton Picker	*	T49
9940	Cotton Picker	*	T50
9940	Cotton Picker	*	T51
9950	Cotton Picker	*	T50
9950	Cotton Picker	*	T51
9960	Cotton Picker		T53
9965	Combine		T53
9970	Cotton Picker		T83
9976	Cotton Picker		T84
9986	Cotton Picker		T84
9996	Cotton Picker		T84
C670	Combine	*	T85
CH3510	Cane Harvester		T84
CTS	Combine		T84
CTS II	Combine		T84
CTS II	Combine	(S.N 675000 >)	T84
S550 STS	Sf Propelled Combine		T81
S560	Combine	*	T85
S660 STS	Sf-Propelled Combine	*	T85
S670	Hillmaster Combine	*	T85
S670 STS	Sf-Propelled Combine	*	T85
SE6100	Tractor		T21
SE6200	Tractor		T18
SE6300	Tractor		T18
SE6400	Tractor		T23
SE6510	Tractor		T78
SE6520	Tractor		T78
T550	Combine		T81
T560	Combine	*	T85
T660	Combine	*	T85
T670	Combine	*	T85
W330	Combine		T82
W540	Combine		T81
W550	Combine		T81
W650	Combine	*	T85
W660	Combine	*	T85

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35D	Compact Excavator		T69
35G	Compact Excavator		T69
50D	Compact Excavator		T70
70	Excavator		T15
70D	Excavator	*	T15
70D	Excavator	*	T16
110	Loader Backhoe		T62
110	Loader Backhoe		T70
120	Loader Backhoe		T76
200LC	Excavator		T79
200LL	Excavator		T79
210C	Loader Backhoe		T15
210D	Loader Backhoe		T16
210LE	Loader Backhoe		T74
230LC	Excavator		T79
230LCR	Excavator		T75
240DLC	Excavator		T81
244E	Wheel Loader		T15
250D	Articulated D. Truck		T81
250D	Bell DP Truck	*	T85
250D	Articulated Dump Truck	*	T85
250GLC	Excavator		T81
270DLC	Excavator		T81
270LC	Excavator		T79
290D	Excavator	*	T15
290D	Excavator	*	T16
290GLC	Excavator		T81
300	Loader Backhoe	*	T01
300	Loader Backhoe	*	T02
300A	Loader Backhoe	*	T01
300A	Loader Backhoe	*	T02
300B	Loader Backhoe		T02
300D	Loader Backhoe		T18
300D	Loader Backhoe		T81
300D	Bell DP Truck	*	T85
301	Loader Backhoe		T02
301A	Loader Backhoe	*	T02
301A	Loader Backhoe	*	T05
302	Loader Backhoe	*	T03
302	Loader Backhoe	*	T05
302A	Loader Backhoe	*	T03
302A	Loader Backhoe	*	T05
310	Loader Backhoe		T05
310	Loader Backhoe		T14
310B	Loader Backhoe		T14
310C	Loader Backhoe	*	T15
310C	Loader Backhoe	*	T16
310C	Loader Backhoe	*	T17
310C	Loader Backhoe	*	T18

MODEL	DESCRIPTION	COMMENTS	PAGE
310D	Loader Backhoe	*	T15
310D	Loader Backhoe	*	T16
310D	Loader Backhoe	*	T17
310E	Loader Backhoe	*	T74
310E	Loader Backhoe	*	T75
310G	Loader Backhoe		T75
310SE	Loader Backhoe	*	T75
310SG	Loader Backhoe	*	T75
315C	Loader Backhoe	*	T15
315C	Loader Backhoe	*	T16
315C	Loader Backhoe	*	T17
315C	Loader Backhoe	*	T18
315D	Loader Backhoe	*	T16
315D	Loader Backhoe	*	T17
315D	Loader Backhoe	*	T18
315SE	Loader Backhoe		T75
315SG	Loader Backhoe		T75
330C	Excavator		T80
330C LC	Excavator		T80
330LC	Excavator		T80
330LCR	Excavator		T80
335D	Knuckleboom Log Loader		T77
344E	Wheel Loader	*	T20
344E	Wheel Loader	*	T21
344G	Wheel Loader	*	T22
344G	Wheel Loader	*	T23
344H	Wheel Loader		T75
344J	Loader		T77
350A	Crawler Dozer	*	T01
350A	Crawler Dozer	*	T02
350B	Crawler Dozer	*	T01
350B	Crawler Dozer	*	T02
350B	Crawler Dozer	*	T04
350B	Crawler Dozer	*	T05
350C	Crawler Dozer		T05
350D	Crawler Dozer		T05
350D	Crawler Dozer		T06
355D	Crawler Dozer		T06
370	Excavator		T80
370C	Excavator		T80
400	Loader Backhoe	*	T10
400	Loader Backhoe	*	T11
400G	Crawler Dozer	*	T15
400G	Crawler Dozer	*	T16
401	Loader Backhoe		T13
401A	Loader Backhoe		T13
401B	Loader Backhoe		T14
401C	Loader Backhoe		T14
401D	Loader Backhoe		T14
410	Loader Backhoe		T14

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MODEL	DESCRIPTION	COMMENTS	PAGE
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410C	Loader Backhoe	*	T19
410C	Loader Backhoe	*	T20
410C	Loader Backhoe	*	T21
410C	Loader Backhoe	*	T22
410C	Loader Backhoe	*	T23
410D	Loader Backhoe	*	T20
410D	Loader Backhoe	*	T21
410D	Loader Backhoe	*	T22
410D	Loader Backhoe	*	T23
410E	Loader Backhoe		T75
410G	Loader Backhoe		T75
410J	Loader Backhoe		T75
415B	Loader Backhoe		T15
415C	Loader Backhoe		T15
437D	Knuckleboom Log Loader		T77
444C	Wheel Loader		T28
444CH	Wheel Loader		T28
444D	Wheel Loader	*	T28
444D	Wheel Loader	*	T29
444D	Wheel Loader		T30
444D	Wheel Loader		T31
444D	Wheel Loader		T32
444E	Wheel Loader	*	T22
444E	Wheel Loader	*	T23
444G	Wheel Loader	*	T22
444G	Wheel Loader	*	T23
444H	Wheel Loader		T76
444HCL	Wheel Loader		T76
450	Crawler Dozer		T10
450A	Crawler Dozer		T13
450B	Crawler Dozer		T13
450C	Crawler Dozer		T14
450D	Crawler Dozer		T14
450E	Crawler Dozer	*	T20
450E	Crawler Dozer	*	T21
450E	Crawler Dozer	*	T22
450E	Crawler Dozer	*	T23
450G	Crawler Dozer	*	T20
450G	Crawler Dozer	*	T21
450G	Crawler Dozer	*	T22
450G	Crawler Dozer	*	T23
450G	Crawler Dozer	*	T76
450H	Crawler Dozer	*	T74
450H	Crawler Dozer	*	T75
455D	Crawler Dozer		T14
455E	Crawler Dozer	*	T20
455E	Crawler Dozer	*	T21
455E	Crawler Dozer	*	T22
455E	Crawler Dozer	*	T23

MODEL	DESCRIPTION	COMMENTS	PAGE
455G	Crawler Dozer	*	T20
455G	Crawler Dozer	*	T22
455G	Crawler Dozer	*	T23
455G	Crawler Dozer	*	T76
490	Excavator		T14
490D	Excavator	*	T20
490D	Excavator	*	T21
490E	Excavator	*	T22
490E	Excavator	*	T23
493D	Excavator	*	T20
493D	Excavator	*	T21
495D	Excavator	*	T22
495D	Excavator	*	T23
500	Loader Backhoe	*	T37
500	Loader Backhoe	*	T38
500	Loader Backhoe	*	T39
500A	Loader Backhoe	*	T37
500A	Loader Backhoe	*	T38
500A	Loader Backhoe	*	T39
500A	Loader Backhoe	*	T40
500B	Loader Backhoe		T38
500B	Loader Backhoe		T39
500B	Loader Backhoe		T40
500C	Loader Backhoe		T38
500C	Loader Backhoe		T39
500C	Loader Backhoe		T40
510	Loader Backhoe		T38
510	Loader Backhoe		T39
510	Loader Backhoe		T40
510B	Loader Backhoe	*	T20
510B	Loader Backhoe	*	T21
510C	Loader Backhoe	*	T22
510C	Loader Backhoe	*	T23
510D	Loader Backhoe	*	T23
515B	Loader Backhoe	*	T15
515B	Loader Backhoe	*	T16
515B	Loader Backhoe	*	T17
515B	Loader Backhoe	*	T18
530B	Loader		T80
535	Loader		T80
544	Wheel Loader	*	T24
544	Wheel Loader	*	T25
544A	Wheel Loader	*	T27
544A	Wheel Loader	*	T28
544B	Wheel Loader	*	T35
544B	Wheel Loader	*	T36
544C	Wheel Loader	*	T33
544C	Wheel Loader	*	T35
544C	Wheel Loader	*	T36
544D	Wheel Loader	*	T35

Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
544D	Wheel Loader	*	T36
544E	Wheel Loader	*	T31
544E	Wheel Loader	*	T32
544EH	Wheel Loader	*	T31
544EH	Wheel Loader	*	T32
544G	Wheel Loader	*	T31
544G	Wheel Loader	*	T32
544H	Wheel Loader		T79
544HLL	Wheel Loader		T79
550	Crawler Dozer	*	T22
550	Crawler Dozer	*	T23
550A	Crawler Dozer	*	T22
550A	Crawler Dozer	*	T23
550B	Crawler Dozer	*	T22
550B	Crawler Dozer	*	T23
550G	Crawler Dozer	*	T22
550G	Crawler Dozer	*	T23
550G	Crawler Dozer	*	T76
550H	Crawler Dozer	*	T74
550H	Crawler Dozer	*	T75
550H	Crawler Dozer	*	T76
555	Crawler Dozer	*	T22
555	Crawler Dozer	*	T23
555A	Crawler Dozer	*	T22
555A	Crawler Dozer	*	T23
555B	Crawler Dozer	*	T22
555B	Crawler Dozer	*	T23
555G	Crawler Dozer	*	T22
555G	Crawler Dozer	*	T23
555G	Crawler Dozer	*	T76
570A	Motor Grader	*	T27
570A	Motor Grader	*	T28
570B	Motor Grader	*	T29
570B	Motor Grader	*	T30
590D	Excavator	*	T22
590D	Excavator	*	T23
595	Excavator	*	T22
595D	Excavator	*	T22
595D	Excavator	*	T23
600	Loader Backhoe	*	T44
610B	Loader Backhoe	*	T23
610B	Loader Backhoe	*	T23
610C	Loader Backhoe	*	T22
610C	Loader Backhoe	*	T23
624E	Wheel Loader	*	T35
624E	Wheel Loader	*	T36
624EH	Wheel Loader	*	T35
624EH	Wheel Loader	*	T36
624G	Wheel Loader	*	T35
624G	Wheel Loader	*	T36

MODEL	DESCRIPTION	COMMENTS	PAGE
624H	Wheel Loader		T79
624HLL	Wheel Loader		T79
624K	Loader		T81
624KR	Loader		T81
644	Wheel Loader		T46
644A	Wheel Loader		T46
644B	Wheel Loader		T55
644C	Wheel Loader	*	T50
644C	Wheel Loader	*	T51
644D	Wheel Loader		T49
644E	Wheel Loader	*	T53
644ER	Wheel Loader	*	T53
644G	Wheel Loader	*	T53
644G	Wheel Loader	*	T80
644GH	Wheel Loader	*	T53
644H	Wheel Loader		T80
644J	Wheel Loader	(S.N > 611231)	T80
644J	Loader		T81
644K	Loader		T81
650G	Crawler Dozer	*	T22
650G	Crawler Dozer	*	T23
650G	Crawler Dozer	*	T76
650H	Crawler Dozer	*	T74
650H	Crawler Dozer	*	T75
650J	Crawler		T77
655A	Crawler Dozer	*	T35
655A	Crawler Dozer	*	T36
655B	Crawler Dozer	*	T35
655B	Crawler Dozer	*	T36
670A	Motor Grader	*	T35
670A	Motor Grader	*	T36
670B	Motor Grader	*	T35
670B	Motor Grader	*	T36
670C	Motor Grader	*	T78
670C	Motor Grader	*	T79
670CH	Motor Grader	*	T78
670CH	Motor Grader	*	T79
670G	Motor Grader		T81
670GP	Motor Grader		T81
672A	Motor Grader	*	T35
672A	Motor Grader	*	T36
672B	Motor Grader	*	T35
672B	Motor Grader	*	T36
672CH	Motor Grader	*	T78
672CH	Motor Grader	*	T79
672G	Motor Grader		T81
672GP	Motor Grader		T81
690	Excavator		T46
690A	Excavator		T46
690B	Excavator		T47

Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
690C	Excavator	*	T50
690C	Excavator	*	T51
690D	Excavator	*	T35
690D	Excavator	*	T36
690E	Excavator	*	T35
690E	Excavator	*	T36
698G	Excavator		T79
700	Loader Backhoe		T54
700A	Loader Backhoe		T54
700H	Crawler Dozer		T78
700J	Crawler Dozer		T78
710B	Loader Backhoe	*	T28
710B	Loader Backhoe	*	T31
710B	Loader Backhoe	*	T32
710C	Loader Backhoe	*	T31
710C	Loader Backhoe	*	T32
710D	Loader Backhoe		T79
710J	Backhoe Loader		T77
710K	Backhoe Loader		T82
724J	Wheel Loader		T80
724K	Loader	*	T85
744E	Wheel Loader		T59
744K	Loader	*	T85
750	Crawler Dozer	*	T35
750	Crawler Dozer	*	T36
750B	Crawler Dozer	*	T35
750B	Crawler Dozer	*	T36
753J	Tracked Feller Buncher	*	T85
755	Crawler Dozer	*	T35
755	Crawler Dozer	*	T36
755A	Crawler Dozer	*	T35
755A	Crawler Dozer	*	T36
755B	Crawler Dozer	*	T35
755B	Crawler Dozer	*	T36
755BMIL	Crawler Dozer	*	T35
755BMIL	Crawler Dozer	*	T36
755D	Crawler		T81
760	Scraper		T54
760A	Scraper		T54
762	Scraper	*	T58
762	Scraper	*	T59
762A	Scraper	*	T49
762A	Scraper	*	T50
762A	Scraper	*	T51
762B	Scraper	*	T50
762B	Scraper	*	T51
762B	Scraper		T80
764	High Speed Dozer		T81
770	Motor Grader		T55
770A	Motor Grader	*	T50

MODEL	DESCRIPTION	COMMENTS	PAGE
770A	Motor Grader	*	T51
770A	Motor Grader	*	T55
770B	Motor Grader	*	T50
770B	Motor Grader	*	T51
770B	Motor Grader	*	T53
770BH	Motor Grader		T53
770C	Motor Grader	(S.N > 582129)	T80
770C II	Motor Grader	(S.N 582130 >)	T80
770CH	Motor Grader	(S.N > 582129)	T80
770CH II	Motor Grader	(S.N 582130 >)	T80
770D	Motor Grader		T80
772A	Motor Grader		T55
772B	Motor Grader		T53
772BH	Motor Grader		T53
772CH	Motor Grader	(S.N > 582129)	T80
772CH II	Motor Grader	(S.N 582130 >)	T80
772D	Motor Grader		T80
790D	Excavator		T50
790E	Excavator	*	T35
790E	Excavator	*	T36
792D	Excavator		T53
792LC	Excavator		T53
810D	Forwarder		T76
810E	Forwarder		T76
850	Crawler Dozer	*	T58
850	Crawler Dozer	*	T59
850B	Crawler Dozer	*	T50
850B	Crawler Dozer	*	T51
850C	Crawler Dozer		T53
850C	Crawler Bulldozer	(S.N > 883331)	T80
850C-II	Crawler Bulldozer	(S.N 883332 >)	T80
850G	Crawler Dozer		T79
850J	Crawler Bulldozer		T80
850J	Crawler Dozer		T76
850J	Crawler	*	T85
850JR	Crawler	*	T85
855	Crawler Dozer	*	T58
855	Crawler Dozer	*	T59
860B	Scraper	*	T58
860B	Scraper	*	T59
862	Scraper	*	T58
862	Scraper	*	T59
870D	Motor Grader		T80
872D	Motor Grader		T80
890	Excavator	*	T58
890	Excavator	*	T59
890A	Excavator	*	T58
890A	Excavator	*	T59
892D	Excavator	*	T50
892D	Excavator	*	T51

Equipment Application Chart

Skidders, Feller Bunchers, Forklifts and Compactors

MODEL	DESCRIPTION	COMMENTS	PAGE
640GII	Skidder		T79
640GIII	Skidder		T79
640GIII	Cable Skidders		T81
640H	Cable Skidders		T81
643	Feller Buncher	*	T35
643	Feller Buncher	*	T36
643D	Feller Buncher	*	T35
643D	Feller Buncher	*	T36
643G	Feller Buncher		T79
646	Compactor		T46
646B	Compactor	*	T46
646B	Compactor	*	T55
646C	Compactor		T49
648D	Skidder	*	T35
648D	Skidder	*	T36
648E	Skidder		T36
648G	Skidder		T79
648G	Skidder		T79
648G	Skidder		T79
648GII	Skidder		T79
648GII	Skidder		T79
648GIII	Skidder		T79
648GIII	Grapple Skidders		T81
648H	Grapple Skidders		T81
648HTJ	Grapple Skidder		T81
653	Feller Buncher		T36
660D	Skidder		T80
693C	Feller Buncher		T47
693D	Feller Buncher	*	T35
693D	Feller Buncher	*	T36
740	Skidder		T47
740A	Skidder	*	T49
740A	Skidder	*	T51
740E	Skidder	*	T53
740G	Skidder	*	T53
740G	Skidder	(S.N > 565684)	T80
748E	Skidder	*	T53
748G	Skidder	*	T53
748G	Skidder	(S.N > 565684)	T80
748GII	Skidder	(SN 565685-576602)	T80
748GIII	Skidder	(S.N 576603 >)	T80
748H	Grapple Skidders		T81
748HTJ	Grapple Skidders		T81
753G	Feller Buncher	(SN 002001-002063)	T80
753GL	Track Harvester	(S.N 001032 >)	T80
753J	Feller Buncher		T80
753JH	Feller Buncher		T80
759G	Feller Buncher		T80
759J	Feller Buncher		T80
759JH	Feller Buncher		T80

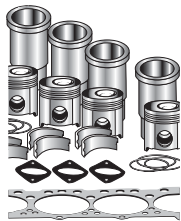
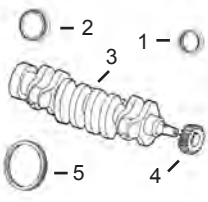
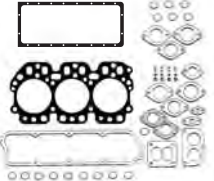
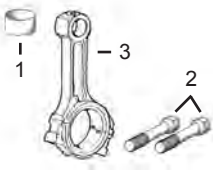
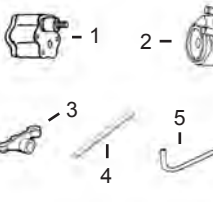
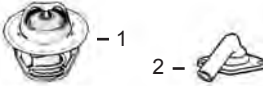
MODEL	DESCRIPTION	COMMENTS	PAGE
786G	Skidder		T80
843G	Feller Buncher		T79
848G	Skidder		T80
848H	Grapple Skidders		T81
848HTJ	Grapple Skidder		T81
850	Feller Buncher	(S.N 008019 >)	T80
850J	Log Loader		T80
853G	Feller Buncher	(S.N 003084 >)	T80
853J	Feller Buncher		T81
853JH	Harvester		T81
900	Feller Buncher	(S.N 001001 >)	T80
903G	Feller Buncher	(S.N 002001 >)	T80
903J	Feller Buncher		T81
903JH	Harvester		T81
909J	Feller Buncher		T81
909JH	Harvester		T81
950	Feller Buncher	(S.N 009004 >)	T80
953G	Feller Buncher	(S.N 004005 >)	T80
953J	Feller Buncher		T81
959J	Feller Buncher		T81
1270D	Wheeled Harvester	(S.N 0001-0997)	T80
1470D	Wheeled Harvester	(S.N 0001-0309)	T80
1710D	Forwarder	(S.N > 1000)	T80
1711D	Clam Bunk		T80
3554	Logger		T80
8875	Skid Steer		T73

Other OEM Applications

John Deere® engines are used in many OEM applications. This is a list of the most common brands.

Barber Greene	Koering
Blaw Knox	Kohler
Cameco	Lion MFG
Dynapac	Onan Generators
Elgin Street Sweeper	Pavex
FMC Corporation	Powell MFG
Gardner Denver	Rex Works
Ingersoll Rand	Roscoe Brown
Joy Manufacturing	Sullair Corporation

* Choose proper engine for this application. In doubt call our Technical support line **(800) 414-2095**.

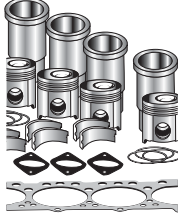
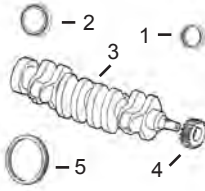
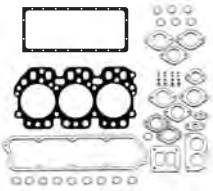
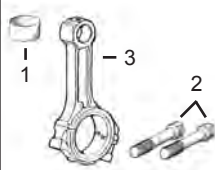
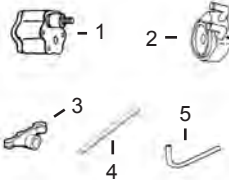
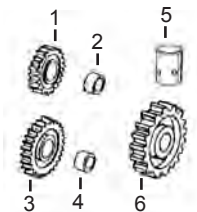
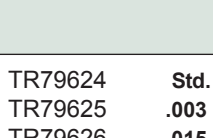
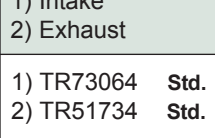
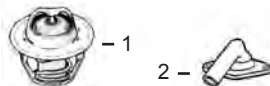
300 Series Engine & Equipment Model									
3.152 > 154,765		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing	
O'rings on liner		2) Engine I/F Kit		TPLK481		TRE27352 Std.		TAT21139 Std.	
3 Cyl.		1) TOK3481		Consists of:		TRE27353 .010		TAT21132 .010	
Bore: 3.86 in 98 mm		2) TIK3481		a) TT23481 b) TAR70633 c) TT23482 d) TAR51902 e) TR51112		TRE27360 .020		TAT21134 .020	
Pin Ø: 1.185 in 30 mm						TRE27368 .030		TAT21136 .030	
Block (m): T24963, T26935				Use 3		Use 1		Use 3	
Con Rod (m): T20007, R81410									
APPLICATIONS:		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
AGRICULTURAL 820 1020 1030		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	
CONSTRUCTION 300 300A 350A 350B 380		1) TAR67942 2) TRE44574 (1) 3) TAT18031 4) TT20094 5) TR114282 (142T)		1) TRE38570 2) TRE38848 3) TR98460 4) TR97341 5) TR75729		1) TT23471 x3 2) TR74194 x6 (4) 3) TAT18005		1) TRE55343 2) TRE31929 (3) 3) TRE31973 4) TR54985 5) TR113752	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve	
		TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077	
									
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector	
1) TRE33705 180° F (2) 2) TT23620		TRE42211		Without Impeller TRE19507	With Impeller TRE62658	TAR89564		TR60746 TR48000	

(1) Do not use with Flywheel Housing (m) T20300, T22991.

(2) Do not use with Housing (m) R54096, R70741, R74549.

(3) Conversion Kit TMX386: Available Consists of: TT31306 x1 Nipple TR99802 x2 Hose.

(4) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

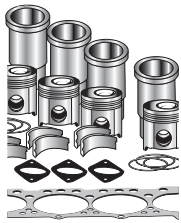
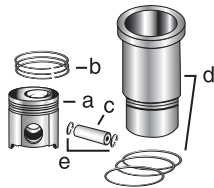
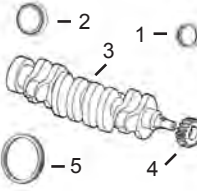
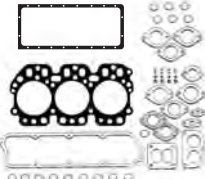
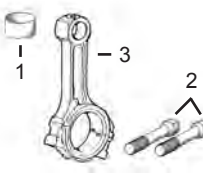
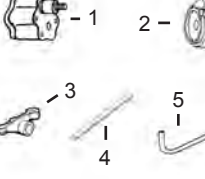
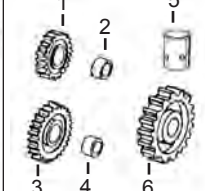
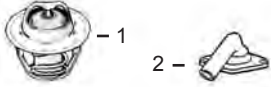
300 Series Engine & Equipment Model		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
3.152 154,766 > O'rings on Block 3 Cyl Bore: 3.86 in 98 mm Pin Ø: 1.185 in 30 mm Block (m): R53240, R55100, R72967, T32339 Con Rod (m): T20007, R81410 APPLICATIONS: AGRICULTURAL 820 830 1020 1030 CONSTRUCTION 300 300A 300B 301 301A 350A/B 380		 1) Engine O/H Kit		 Main Bearing		 Thrust Bearing		 Con Rod Bearing	
		2) Engine I/F Kit		TAR71591 Consists of: a) TT23481 b) TAR70633 c) TT23482 d) TT32340 e) TAR71617 f) TR51112		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030	
		1) TOK3591		Use 3		Use 1		Use 3	
		2) TIK3591		Use 3		Use 1		Use 3	
 1) Front Seal 2) Rear Seal		 1) O/H Gasket Set		 1) Bush, Con Rod 2) Bolt, Con Rod		 1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		 1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod		1) TRE55343 2) TRE31929 (3) 3) TRE31973 4) TR54985 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
1) TAR67942 2) TRE44574 (1) 3) TAT18031 4) TT20094 5) TR114282 (142T)		1) TRE38570 2) TRE38848 3) TR98460 4) TR97341 5) TR75729		1) TT23471 x3 2) TR74194 x6 (4) 3) TAT18005		1) TRE55343 2) TRE31929 (3) 3) TRE31973 4) TR54985 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
 Valve, Intake		 Valve, Exhaust		 Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
 1) Thermostat 2) Thermostat Cover		 Fuel Transfer Pump		 Water Pump Repair Kit		 Injector, Pencil		 Seal, Injector	
1) TRE33705 180° F (2) 2) TT23620		TRE42211		TRE19507		TRE62658		TAR89564	
		Without Impeller		With Impeller				TR60746 TR48000	

(1) Do not use with Flywheel Housing (m) T20300, T22991.

(2) Do not use with Housing (m) R54096, R70741, R74549.

(3) Conversion Kit TMX386: Available Consists of: TT31306 x1 Nipple TR99802 x2 Hose.

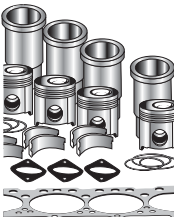
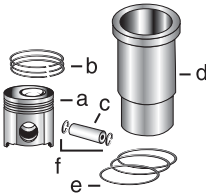
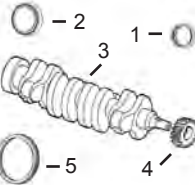
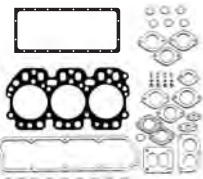
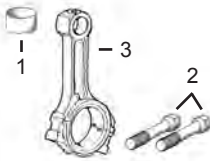
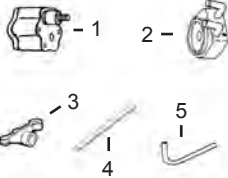
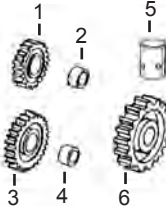
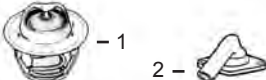
(4) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

300 Series Engine & Equipment Model											
3.164 > 179,601 O'rings on Liner Small Pin 3 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.185 in 30 mm Con Rod (m): T20007, R81410 APPLICATIONS: AGRICULTURAL 1520 CONSTRUCTION 302 302A		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
		2) Engine I/F Kit		TPLK310 Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TAR51903 e) TR51112		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
		1) TOK3310				TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21132 .010 TAT21134 .020 TAT21136 .030		TRE27349 .010 TRE27358 .020 TRE27364 .030	
		2) TIK3310				Use 3		Use 1		Use 3	
											
		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod					
		1) TAR67942 2) TRE44574 3) TAT18031 4) TT20094 5) TR114282 (142T)		1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729		1) TT23471 x3 2) TR74194 x6 (3) 3) TAT18005		1) TRE55343 2) TRE31929 (2) 3) TRE31973 4) TR54985 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Injector, Pencil		Seal, Injector	
		TRE42211		a) TRE19507 b) TRE62658		TAT27018 (m) R48997, (m) R51039		TAR89564		TR60746 TR48000	
		1) TRE33705 180° F (1) 2) TT23620									

(1) Do not use with Housing (m) R54096, R70741, R74549.

(2) Conversion Kit TMX386: Available Consists of: TT31306 x1 Nipple TR99802 x2 Hose.

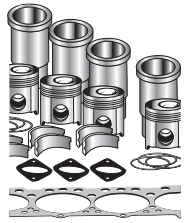
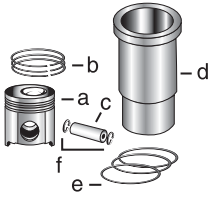
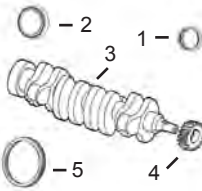
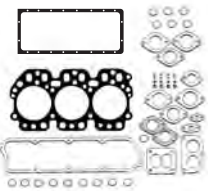
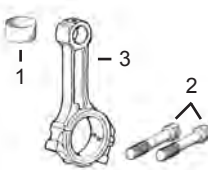
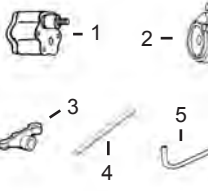
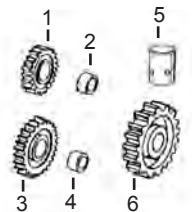
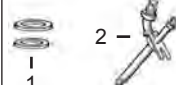
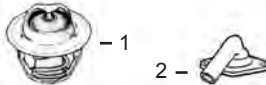
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

300 Series Engine & Equipment Model 3.164 > 179,601 O'rings on Block Small Pin 3 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.185 in 30 mm Con Rod (m): T20007, R81410 APPLICATIONS: AGRICULTURAL 1420 1520 1530 CONSTRUCTION 350B					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR71593	TRE27352 Std.	TAT21139 Std.	TRE27348 Std.
	1) TOK3593	Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TR116463 e) TAR71618 f) TR51112	TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27349 .010 TRE27358 .020 TRE27364 .030
	2) TIK3593		Use 3	Use 1	Use 3
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler	1) Lower Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Con Rod	3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	1) TAR67942 2) TRE44574 3) TAT18031 4) TT20094 5) TR114282 (142T)	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729	1) TT23471 x3 2) TR74194 x6 (3) 3) TAT18005	1) TRE55343 2) TRE31929 (2) 3) TRE31973 4) TR54985 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
	TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F (1) 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R51039	TAR89564	TR60746 TR48000

(1) Do not use with Housing (m) R54096, R70741, R74549.

(2) Conversion Kit TMX386: Available Consists of: TT31306 x1 Nipple TR99802 x2 Hose.

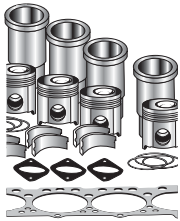
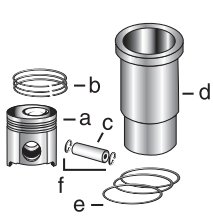
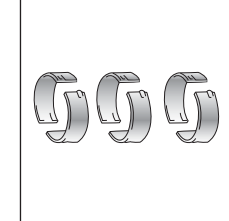
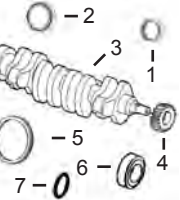
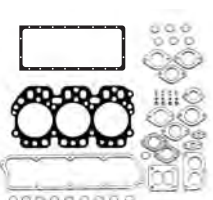
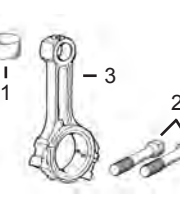
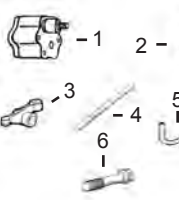
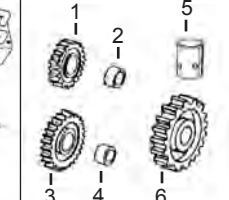
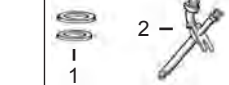
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

300 Series Engine & Equipment Model 3.164 179,602 > O'Rings on Block Large Pin 3 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.375 in 35 mm APPLICATIONS: AGRICULTURAL 1530 2040 2330 CONSTRUCTION 301A 302 302A 310 350B 350C 350D										
	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TAR78041 Consists of: a) TAR77762 b) TAR55759 c) TR125754 d) TR116463 e) TAR71618 f) TM41029		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030	
	1) TOK3041									
	2) TIK3041				Use 3		Use 1		Use 3	
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod					
	1) TAR67942 2) TRE44574 3) TAT18031 4) TT20094 5) TR114282 (142T)		1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729		1) TR55647 x3 2) TR74194 x6 3) TRE16495 (3)		1) TRE55343 2) TRE31929 (2) 3) TRE31973 4) TR54985 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
										
	Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
	TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
										
	1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Transmission Oil Pump	
	1) TRE33705 180°F (1) 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAT27018 (m) R48997, (m) R51039		TAL120106	
									1) Seal, Injector 2) Injector, Pencil	
									1) TR60746 TR48000 2) TAR89564	

(1) Do not use with Housing (m) R54096, R70741, R74549.

(2) Conversion Kit TMX386 Consists of TT31306 x1 Nipple TR99802 x2 Hose.

(3) For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt TR80033.

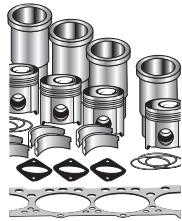
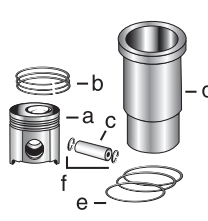
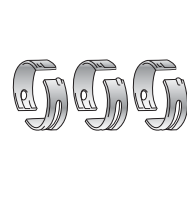
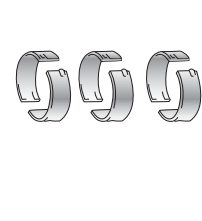
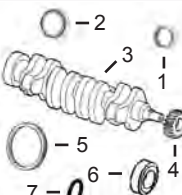
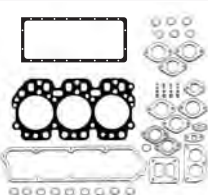
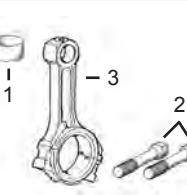
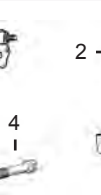
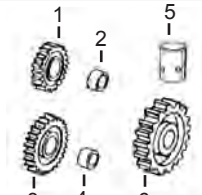
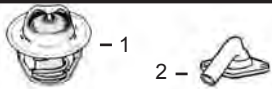
300 Series Engine & Equipment Model											
3.179D		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
3 Cyl		2) Engine I/F Kit		TRE30250		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
Bore: 4.19 in 106 mm		1) TRE47653		Consists of:		TRE27353 .010		TAT21132 .010		TRE27349 .010	
Pin Ø: 1.375 in 35 mm		2) TIK47653		a) TRE19282 b) TRE66820 c) TR125754 d) TR116281 e) TAR65507 f) TM41029		TRE27360 .020		TAT21134 .020		TRE27358 .020	
						TRE27368 .030		TAT21136 .030		TRE27364 .030	
						Use 3		Use 1		Use 3	
APPLICATIONS:											
AGRICULTURAL		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
1040 1850 1140 2040 1350 2150 1550 2155 1630 2240 1750 5000		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod					
CONSTRUCTION		1) TAR67942 2) TRE44574 3) TAT18031 (1) 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729		1) TR55647 x3 2) TR80033 x6 3) TRE16495		1) TRE55343 2) TRE31929 (4) 3) TRE31973 4) TR54985 5) TR113752 6) TR85363 x14 (3)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve	
		TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Transmission Oil Pump		1) Seal, Injector 2) Injector, Pencil	
1) TRE33705 180° F (2) 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAR97708 (m) R73604 TRE60489 (m) R78286, (m) R70437 (m) R100812, (m) R127337 (m) R127918, (m) R55164		TAL120106 TAL68094		1) TR60746 TR48000 2) TAR89564	

(1) Crankshaft (m) T23516 (36 mm / 1.37" Snout.) This engine may use TRE50979 (60 mm / 2.36" Snout) (m) R91834.

(2) Do not use with Housing (m) R54096, R70741, R74549. For Saran Repower Engines use TRE64354.

(3) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(4) Use on engines ESN 794193, after this ESN use TRE61767.

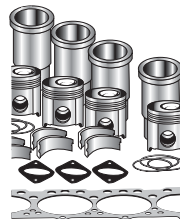
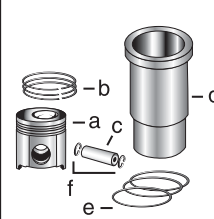
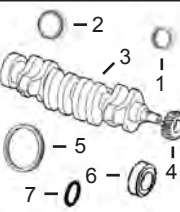
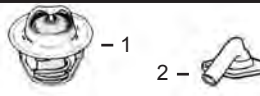
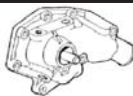
300 Series		Engine & Equipment Model		3029D		Liter Designated		3 Cyl		Bore: 4.19 in 106.5 mm Pin Ø: 1.375 in 35 mm		Con Rod (m): R51727, R80034		APPLICATIONS: AGRICULTURAL 5200 5300 5400									
										1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing					
2) Engine I/F Kit		TRE30250 Consists of: a) TRE19282 b) TRE66820 c) TR125754 d) TR116281 e) TAR65507 f) TM41029		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030 Use 3		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030 Use 1		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030 Use 3															
1) TRE47653																							
2) TIK47653																							
										1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Pump, Oil Tube 4) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear					
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod		4) Con Rod																	
1) TAR67942 2) TRE44574 3) TRE521348 (5) 4) TT20094 (3) 5) TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR106796 (1) or TR75729 (2)		1) TR55647 x3 2) TR80033 x6 3) TRE16495		1) TRE55343 2) TRE61767 3) TR113752 4) TR85363 x14 (4)		1) TAT24252 (3) 2) TT26321 3) TAT18009 (3) 4) TT20034 5) TT20073 6) TT20070 (3)															
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve													
TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR51734 Std. TR93910 O/S		1) TRE31617 2) TR91889		1) TR26125 2) TRE60005															
												1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Injector, Pencil		Seal, Injector	
1) TRE64354 180° F 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337 (m) R127918, (m) R55164		TRE36936		TR60746 TR48000													

(2) Reusable.

(5) Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

(3) Helicoidal Gears.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

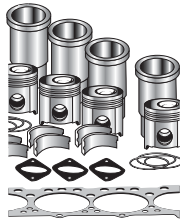
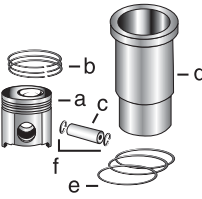
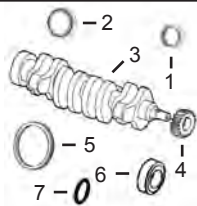
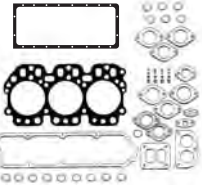
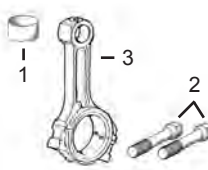
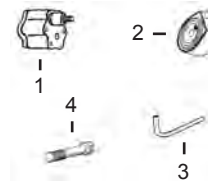
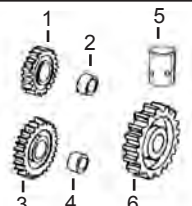
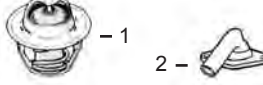
300 Series Engine & Equipment Model													
3.179T 3 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.625 in 41 mm APPLICATIONS: AGRICULTURAL 2355NCS 2355NTSS		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing			
		2) Engine I/F Kit		TRE33115 Consists of: a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030 Use 3		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030 Use 1		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030 Use 3			
		1) TOK3115											
		2) TIK3115											
		1) Front Seal 2) Rear Seal 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		1) O/H Gasket Set 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear			
		1) TAR67942 2) TRE44574 3) TAT18031 (3) 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729		1) TR57451 x3 2) TR80033 x6 3) TRE58347		1) TRE55343 2) TRE31929 (4) 3) TRE31973 4) TR54985 5) TR113752 6) TR85363 x14 (2)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070			
				Valve, Intake TR83071 Std. TR89223 .003 TR89224 .015		Valve, Exhaust TR79624 Std. TR79625 .003 TR79626 .015		Insert, Valve 1) Intake 2) Exhaust 1) TR73064 Std. 2) TR51734 Std.		1) Cap, Valve 2) Lock, Valve 1) TT20129 2) TT20077		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve 1) TR26125 2) TRE11410 3) TR87627	
													
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Injector, Pencil		Seal, Injector			
1) TRE33705 180° F (1) 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337 (m) R127918, (m) R55164		TRE37503		TR60746 TR48000			

(1) Do not use with Housing (m) R54096, R70741, R74549. For Saran Repower Engines use TRE64354.

(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(3) Crankshaft (m) T23516 (36 mm / 1.37" Snout.) This engine may use TRE50979 (60 mm / 2.36" Snout) (m) R91834.

(4) Use on engines ESN 794193, after this ESN use TRE61767.

300 Series Engine & Equipment Model											
3029T Liter Designated 3 Cyl		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
Bore: 4.19 in 106.5 mm Pin 0 1.625 in 41 mm		2) Engine I/F Kit		TRE33115 Consists of: a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030	
Con Rod (m): R80032, R58979, R113612		1) TOK3115				Use 3		Use 1		Use 3	
2) TIK3115											
APPLICATIONS: AGRICULTURAL 5500		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Pump, Oil Tube 4) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Con Rod					
		1) TAR67942 2) TRE44574 3) TRE521348 (5) 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR106796 (1) or TR75729 (2)		1) TR57451 x3 2) TR80033 x6 3) TRE58347		1) TRE55343 2) TRE61767 3) TR113752 4) TR85363 x14 (4)		1) TAT24252 (3) 2) TT26321 3) TAT18009 (3) 4) TT20034 5) TT20073 6) TT20070 (3)	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve	
		TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR51734 Std. TR93910 O/S		1) TRE31617 2) TR91889		1) TR26125 2) TRE60005	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Injector, Pencil		Seal, Injector	
1) TRE64354 180° F 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337 (m) R127918, (m) R55164		TRE38087		TR60746 TR48000	

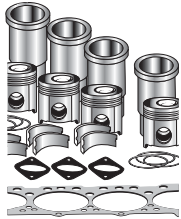
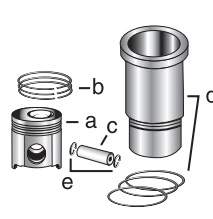
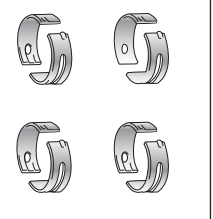
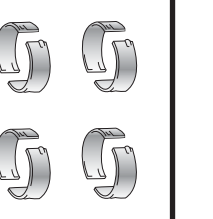
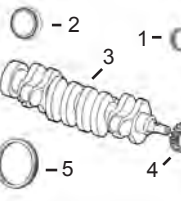
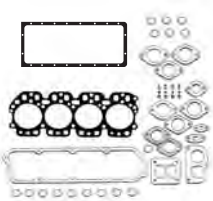
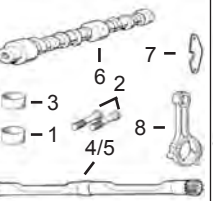
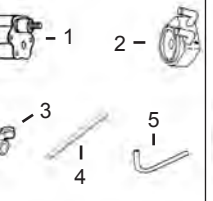
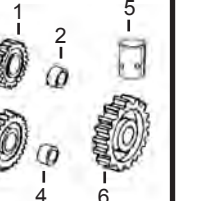
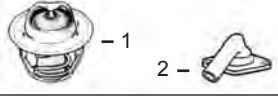
(1) Not included in Gasket Set. Used in Saran Engines (Order separately).

(2) Reusable.

(3) Helicoidal Gears.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5) Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

300 Series Engine & Equipment Model											
4.202 > 158,257		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
O'rings on liner		2) Engine I/F Kit		TPLK481 Consists of:		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
4 Cyl		1) TOK4481		a) TT23481		TRE27353 .010		TAT21132 .010		TRE27349 .010	
Bore: 3.86 in (2) 98 mm		2) TIK4481		b) TAR70633		TRE27360 .020		TAT21134 .020		TRE27358 .020	
Pin Ø: 1.185 in 30 mm				c) TT23482		TRE27368 .030		TAT21136 .030		TRE27364 .030	
Block (m): T23406, T24961, T26933				d) TAR51902		Use 4		Use 1		Use 4	
											
APPLICATIONS:		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
AGRICULTURAL 2020 2510		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod					
CONSTRUCTION 400 440 450 480		1) TAR67942 2) TRE44574 (1) 3) TAT18030 4) TT20094 5) TR114282 (142T)		1) TRE38558 2) TRE38847 3) TR98461 4) TR97342 5) TR73521		1) TT23471 x4 2) TR74194 x8 (3) 3) TR57160 x6 (6) 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 (5) 7) TR88112 8) TAT18005		1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector			
1) TRE33705 180° F (4) 2) TT23620		TRE42211		Without Impeller	With Impeller	TAR89564		TR60746 TR48000			
				TRE19507	TRE62658						

(1) Do not use with Flywheel Housing (m) T20300, T22991.

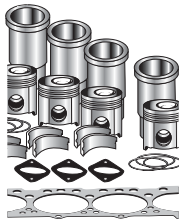
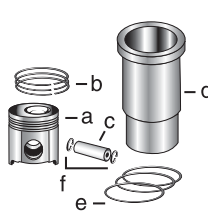
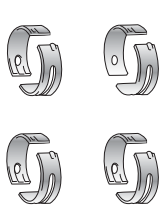
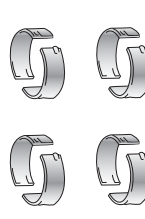
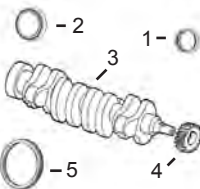
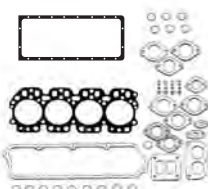
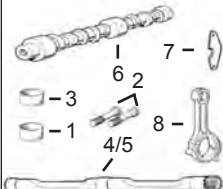
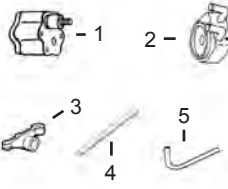
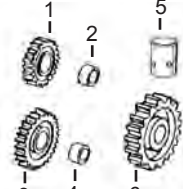
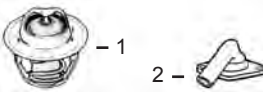
(2) Always verify Bore diameter, on Block Replacement is 4.016"/102mm.

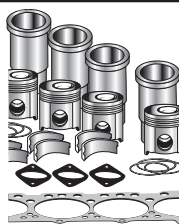
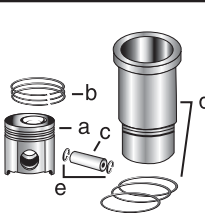
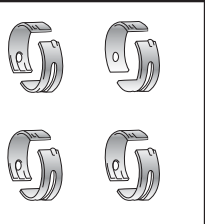
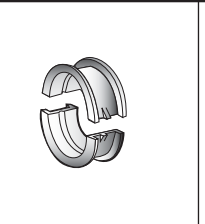
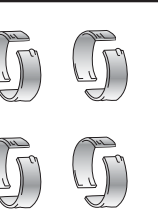
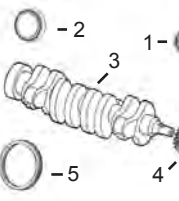
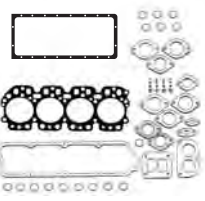
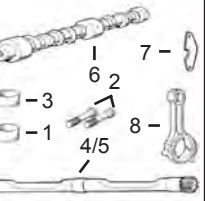
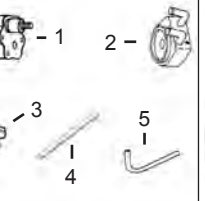
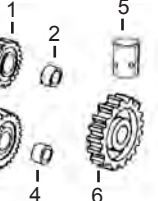
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(4) Do not use with Housing (m) R54096, R70741, R74549.

(5) Threaded Type.

(6) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

300 Series Engine & Equipment Model 4.202 158,258 > O'rings on block 4 Cyl Bore: 3.86 in (2) 98 mm Pin Ø: 1.185 in 30 mm Block (m): R53230, R53250, R55034 R72973, T32342 APPLICATIONS: AGRICULTURAL 2020 2120 2510 CONSTRUCTION 400 440 480					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR71591 Consists of: a) TT23481 b) TAR70633 c) TT23482 d) TT32340 e) TAR71617 f) TR51112	TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030
	1) TOK4591				
	2) TIK4591		Use 4	Use 1	Use 4
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod		
	1) TAR67942 2) TRE44574 (1) 3) TAT18030 4) TT20094 5) TR114282 (142T)	1) TRE38558 2) TRE38847 3) TR98461 4) TR97342 5) TR73521	1) TT23471 x4 2) TR74194 x8 (3) 3) TR57160 x6 (6) 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 (5) 7) TR88112 8) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627	
	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
1) Thermostat 2) Thermostat Cover		Without Impeller	With Impeller		
1) TRE33705 180°F (4) 2) TT23620	TRE42211	TRE19507	TRE62658	TAR89564	TR60746 TR48000

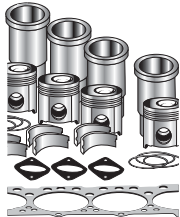
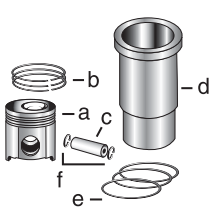
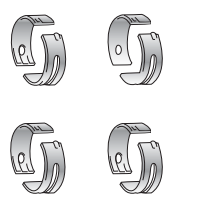
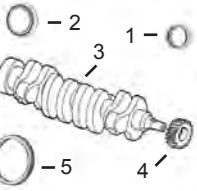
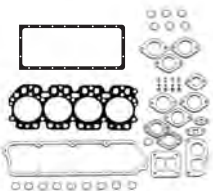
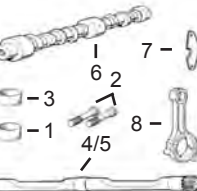
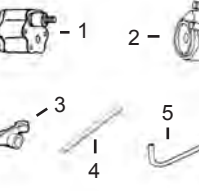
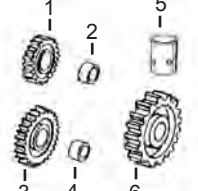
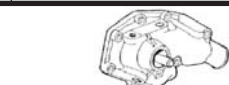
300 Series Engine & Equipment Model											
4.219 > 275,483		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
O'Rings on liner		2) Engine I/F Kit		TPLK310		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
Small Pin		1) TOK4310		Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TAR51903 e) TR51112		TRE27353 .010		TAT21132 .010		TRE27349 .010	
4 Cyl		2) TIK4310				TRE27360 .020		TAT21134 .020		TRE27358 .020	
Bore: 4.02 in 102 mm						TRE27368 .030		TAT21136 .030		TRE27364 .030	
Pin Ø: 1.185 in 30 mm						Use 4		Use 1		Use 4	
Block (m): T26933											
Con Rod (m): T20007, R81410		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
APPLICATIONS:		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod					
AGRICULTURAL 2520		1) TAR67942 2) TRE44574 3) TAT18030 4) TT20094 5) TR114282 (142T)		1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TT23471 x4 2) TR74194 x8 (1) 3) TR57160 x6 (4) 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 (3) 7) TR88112 8) TAT18005		1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
CONSTRUCTION 440A											
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Injector, Pencil		Seal, Injector	
1) TRE33705 180° F (2) 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAT27018 (m) R48997, (m) R551039		TAR89564		TR60746 TR48000	

(1) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(2) Do not use with Housing (m) R54096, R70741, R74549.

(3) Threaded Type.

(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

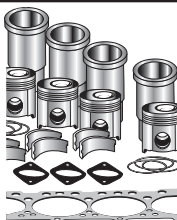
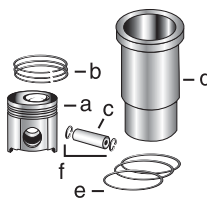
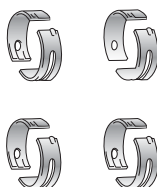
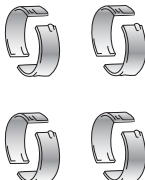
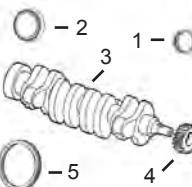
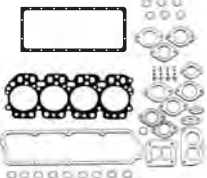
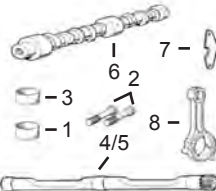
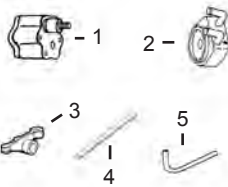
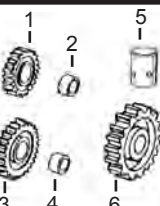
300 Series Engine & Equipment Model 4.219 > 275,483 O'Rings on block Small Pin 4 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.185 in 30 mm Block (m): T32342 Con Rod (m): T20007, R81410 APPLICATIONS: AGRICULTURAL 499 2030 2120 2270 2320 2420 CONSTRUCTION 401 401A 440 440B 450A 450B 480A					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR71593 Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TR116463 e) TAR71618 f) TR51112	TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030
	1) TOK4593				
	2) TIK4593				
			Use 4	Use 1	Use 4
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod		
	1) TAR67942 2) TRE44574 3) TAT18030 4) TT20094 5) TR114282 (142T)	1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521	1) TT23471 x4 2) TR74194 x8 (1) 3) TR57160 x6 (4) 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 (3) 7) TR88112 8) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F (2) 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R51039	TAR89564	TR60746 TR48000

(1) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(2) Do not use with Housing (m) R54096, R70741, R74549.

(3) Threaded Type.

(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

300 Series Engine & Equipment Model 4.219 (1) 275,484 > O'Rings on block Large Pin 4 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.375 in 35 mm Con Rod (m): R51727, R80034 APPLICATIONS: AGRICULTURAL 499 2270 1035 2280 1130 2320 1635 2440 2030 2530 2035 3300 2120 CONSTRUCTION 310/B 450C/D 401B/C/D 455D 410/B 480B/C 440B 540B					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR78041	TRE27352 Std.	TAT21139 Std.	TRE27348 Std.
	1) TAT86984	Consists of: a) TAR77762 b) TAR55759 c) TR125754 d) TR116463 e) TAR71618 f) TM41029	TRE27353 .010	TAT21132 .010	TRE27349 .010
	2) TIK86984		TRE27360 .020	TAT21134 .020	TRE27358 .020
			TRE27368 .030	TAT21136 .030	TRE27364 .030
			Use 4	Use 1	Use 4
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod		
1) TAR67942 2) TRE44574 3) TAT18030 4) TT20094 5) TR114282 (142T)	1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521	1) TR55647 x4 2) TR74194 x8 (2) 3) TR57160 x6 (5) 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 (4) 7) TR88112 8) TRE16495	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F (3) 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R51039	TAR89564	TR60746 TR48000

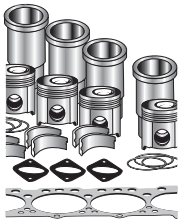
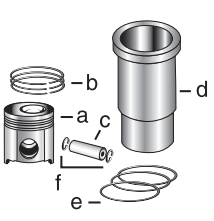
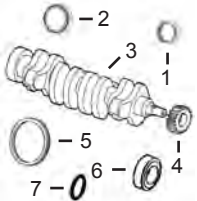
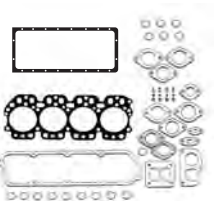
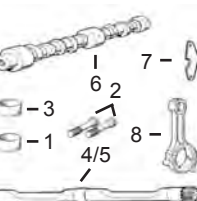
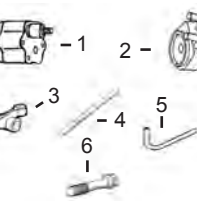
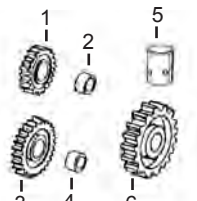
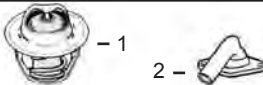
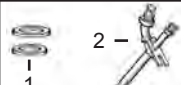
(1) Some of these engines maybe turbocharged.

(2) For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt R80033.

(3) Do not use with Housing (m) R54096, R70741, R74549.

(4) Threaded Type.

(5) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

300 Series Engine & Equipment Model											
4.239D		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
4 Cyl		2) Engine I/F Kit		TRE30250 Consists of:		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
Bore: 4.19 in 106.5 mm		1) TAT86992		a) TRE19282		TRE27353 .010		TAT21132 .010		TRE27349 .010	
Pin Ø: 1.375 in 35 mm		2) TIK86992		b) TRE66820		TRE27360 .020		TAT21134 .020		TRE27358 .020	
				c) TR125754		TRE27368 .030		TAT21136 .030		TRE27364 .030	
				d) TR116281		Use 4		Use 1		Use 4	
				e) TAR65507							
				f) TM41029							
APPLICATIONS:											
AGRICULTURAL		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
940 2450		3) Crankshaft		2) Head Gasket Set		4) Bal. Shaft R/H					
942 2535		4) Crankshaft, Gear		3) Head Gasket		5) Bal. Shaft L/H					
1640 2550		5) Ring Gear		4) Oil Pan Gasket		6) Camshaft					
1840 2555CS		6) Sleeve, Front		5) Rocker Cover Gsk		7) Bal. Shaft Stop					
2130 2650		7) Packing, Sleeve				8) Con Rod					
2135 2730		1) TAR67942		1) TRE501579		1) TR55647 x4		1) TRE55343		1) TAT24252	
2250 2735		2) TRE44574		2) TRE38851		2) TR80033 x8 (3)		2) TRE31929		2) TT26321	
2350 3330		3) TAT18030 (1)		3) TR125863		3) TR57160 x6 (5)		3) TRE31973		3) TAT18009	
2355 3430		or		4) TR97342		4) TRE26282 R/H (*)		4) TR54987		4) TT20034	
2355CS 6602		TRE20585 (2)		5) TR73521		5) TRE26283 L/H (*)		5) TR113752		5) TT20073	
2360		4) TT20094				6) TR82820 (4)		6) TR85363 x18 (6)		6) TT20070	
		5) TR114282 (142T)				7) TR88112					
		6) TR81989				8) TRE16495					
		7) TH35244									
CONSTRUCTION		Valve, Intake		Valve, Exhaust		Insert, Valve		1) Cap, Valve		1) Spring, Valve	
		1) Intake		1) Exhaust		2) Exhaust		2) Lock, Valve		2) Rotator, Valve	
		TR79623 Std.		TR79624 Std.		1) TR73064 Std.		1) TT20129		1) TR26125	
		TR79628 .003		TR79625 .003		2) TR51734 Std.		2) TT20077		2) TRE11410	
		TR79629 .015		TR79626 .015						3) TR87627	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Transmission Oil Pump		1) Seal, Injector 2) Injector, Pencil	
1) TRE33705 180° F 2) TT23620		TRE42211		a) TRE19507 b) TRE62658		TAR97708 (m) R73604		TAL120106 TAL68094		1) TR60746 TR48000 2) TAR89564	
								Verify P/N for your application			

(*) If these engines use bolt on weights shafts use TAR69710 RH and TAR69711 LH.

(1) TAT18030 Crankshaft 36mm (short) snout, (m) T23517.

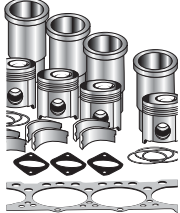
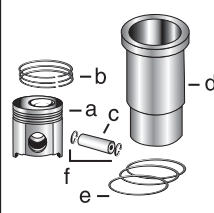
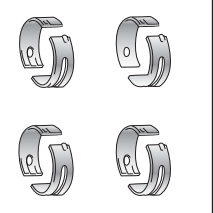
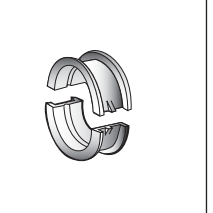
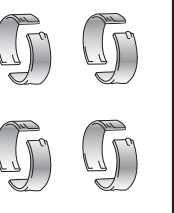
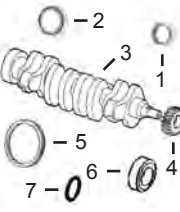
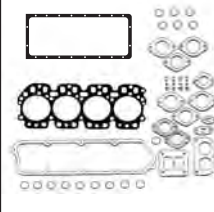
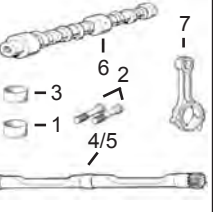
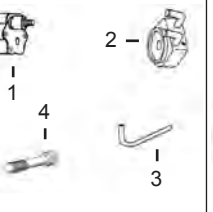
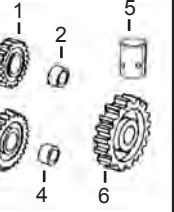
(2) TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.

(3) For Connecting Rod (m) R58979, use TR74194 Connecting Rod Bolt available upon request.

(4) Threaded Type.

(5) TR91708 (Outer Diam. 2.00 mm / 0.078 in)
Larger and TR57160R (Inner Diam 0.5 mm /
0.020 in) Smaller, are also available.

(6) Replace all R78558 Cap Screws with
Flanged Head Cap Screw TR85363.

300 Series											
Engine & Equipment Model											
4039D		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
Liter Designed		2) Engine I/F Kit		TRE30250		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
4 Cyl		1) TAT86992		Consists of: a) TRE19282 b) TRE66820 c) TR125754 d) TR116281 e) TAR65507 f) TM41029		TRE27353 .010		TAT21132 .010		TRE27349 .010	
Bore: 4.19 in 106.5 mm		2) TIK86992				TRE27360 .020		TAT21134 .020		TRE27358 .020	
Pin Ø: 1.375 in 35 mm						TRE27368 .030		TAT21136 .030		TRE27364 .030	
						Use 4		Use 1		Use 4	
APPLICATIONS:											
AGRICULTURAL		1) Front Seal		1) O/H Gasket Set		1) Bush, Con Rod		1) Pump, Oil		1) Lower Gear	
5600 (Mercosur)		2) Rear Seal				2) Bolt, Con Rod		2) Oil Cooler		2) Lower Bushing	
						3) Bush, Bal. Shaft		3) Pump, Oil Tube		3) Upper Gear	
CONSTRUCTION		3) Crankshaft		2) Head Gasket Set		4) Bal. Shaft R/H		4) Cyl Hd Cap Screw		4) Upper Bushing	
70D 315C/D		4) Crankshaft, Gear		3) Head Gasket		5) Bal. Shaft L/H				5) Cam. Follower	
210D 400G		5) Ring Gear		4) Oil Pan Gasket		6) Camshaft				6) Cam. Gear	
290D 482C		6) Sleeve, Front		5) Rocker Cover Gsk		7) Con Rod					
310C/D 515B		7) Packing, Sleeve									
		1) TAR67942		1) TRE501579		1) TR55647 x4		1) TRE55343 (2)		1) TAT24252 (6)	
		2) TRE44574		2) TRE38851		2) TR80033 x8		2) TRE31929		2) TT26321	
		3) TAT18030		3) TR125863		3) TR57160 x6 (4)		3) TR113752		3) TAT18009 (6)	
		or TRE20585		4) TR97342		4) TRE26282 R/H (*)		4) TR85363 x18 (1)		4) TT20034	
		4) TT20094		5) TR73521		5) TRE26283 L/H (*)				5) TT20073	
		5) TR114282 (142T)		or TR106796 (3)		6) TR82820 (8)				6) TT20070 (6)	
		6) TR81989				7) TRE16495					
		7) TH35244									
		Valve, Intake		Valve, Exhaust		Insert, Valve		1) Seal, Valve		1) Spring, Valve	
		TR98062 Std.		TR90692 Std.		1) Intake		2) Lock, Valve		2) Rotator, Valve	
		TR97490 .015		TR97492 .015		2) Exhaust		1) TRE31617		1) TR26125	
						1) TR98063 Std.		2) TR91889		2) TRE60005	
						TR98335 O/S.					
						2) TR85687 Std.					
						TR93910 O/S.					
											
1) Thermostat		Fuel Transfer Pump		Water Pump Rep Kit		Water Pump		Injector, Pencil		Seal, Injector	
2) Thermostat Cover				a) Without Impeller b) With Impeller		TAR97708 (m) R73604					
1) TAR48675 180° F (5)		TRE42211		a) TRE19507		TRE60489 (m) R100812, (m) R127337,		TRE36936		TR60746	
2) TT23620		TRE38009 (7)		b) TRE62658		(m) R127918, (m) R55164				TR48000	

(*) If these engines use bolt on weights shafts use TAR69710 RH and TAR69711 LH.

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(2) May use High cap. Pump, Oil TRE65580.

(3) O'ring not included in Gasket Set. Used in Saran Engines. Order separately.

(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R

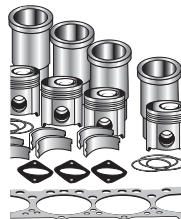
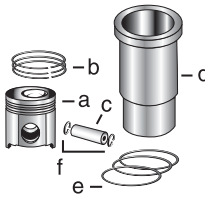
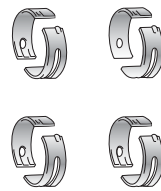
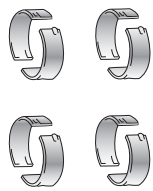
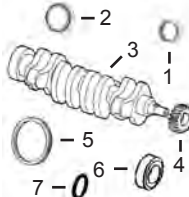
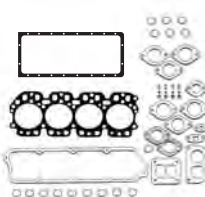
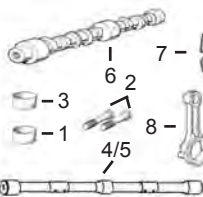
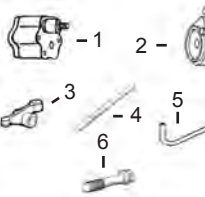
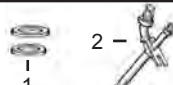
(Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

(5) Saran engines may use TRE64354.

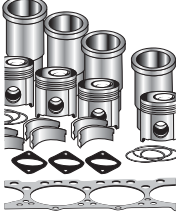
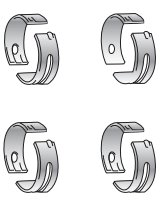
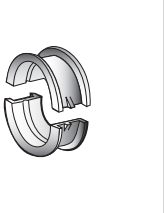
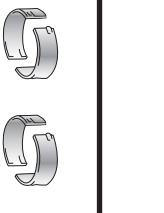
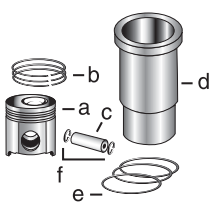
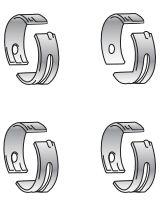
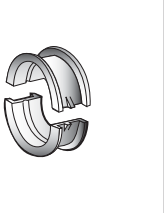
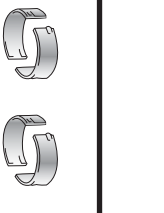
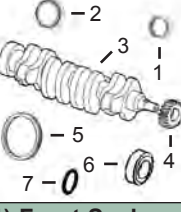
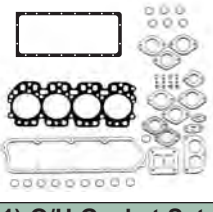
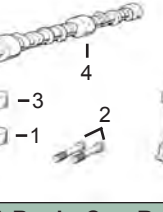
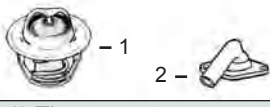
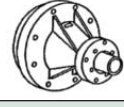
(6) Helicoidal Gears.

(7) Saran Engines.

(8) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, and Tappets) is available.

300 Series Engine & Equipment Model											
4.239T		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
4 Cyl		2) Engine I/F Kit		TRE33115 Consists of: a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030	
Bore: 4.19 in 106.5 mm Pin Ø: 1.625 in 41 mm		1) TRE54709									
		2) TIK54709									
Con Rod (m): R80032, R113612, R122191											
APPLICATIONS:		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
AGRICULTURAL		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod					
945 2750 952 2755 1052 2755 CS/TSS 1155 2850 2140 2855 2450 2855N 2555 3430 2555 TSS 3830 2650		1) TAR67942 2) TRE44574 3) TAT18030 (1) or TRE20585 (4) 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TR57451 x4 2) TR80033 x8 3) TR57160 x6 (3) 4) TRE26282 R/H (*) 5) TRE26283 L/H (*) 6) TR82820 (5) 7) TR88112 8) TRE58347		1) TRE55343 (2) 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752 6) TR85363 x18 (6)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
CONSTRUCTION											
310 C/D (Turbo) 315 C/D (Turbo) 515B											
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR83071 Std. TR89223 .003 TR89224 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Transmission Oil Pump		1) Seal, Injector 2) Injector, Pencil	
1) TAR48675 180° F 2) TT23620		TRE42211		See Chart on Page 81		TAR97708 (m) R73604		TAL120106 TAL68094		1) TR60746 TR48000 2) TRE37503	
								Verify P/N for your application			

(*) If these engines use bolt on weights shafts use TAR69710 RH and TAR69711 LH.
 (1) TAT18030 Crankshaft 36mm (short) snout, (m) T23517.
 (2) May use High Capacity Pump, Oil TRE65580.
 (3) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.
 (4) TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.
 (5) Threaded Type.
 (6) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

300 Series Engine & Equipment Model									
4039T									
Liter Designated		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing	
4 Cyl		2) Engine I/F Kit		TRE33115 Consists of:		TRE27352 Std.		TAT21139 Std.	
Bore: 4.19 in 106.5 mm		1) TRE54709		a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114		TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21132 .010 TAT21134 .020 TAT21136 .030	
Pin Ø: 1.625 in 41 mm		2) TIK54709							
Con Rod (m): R80032, R122191, R113612				Use 4		Use 1		Use 4	
APPLICATIONS:									
AGRICULTURAL		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	
5500N 6300 5700 6300L 6200 SE6200 6200L SE6300		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Camshaft 5) Con Rod		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
CONSTRUCTION		1) TAR67942 2) TRE44574 3) TAT18030 or TRE20585 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521 or TR106796 (2)		1) TR57451 x4 2) TR80033 x8 3) TR57160 x6 (4) 4) TR82820 (8) 5) TRE58347		1) TRE55343 (3) 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752 6) TR85363 x18 (1)	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve	
		TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S		1) TRE31617 2) TR91889	
									
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		1) Seal, Injector 2) Injector, Pencil	
1) TAR48675 180° F (5) 2) TT23620		TRE42211 TRE38009 (7)		See Chart on Page 81		TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164,		TRE41157	
								1) TR60746 TR48000 2) TRE38087	

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(2) Saran engines, O'ring not included in Gasket Set. Order separately.

(3) May use High Capacity Pump, Oil TRE65580.

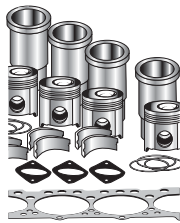
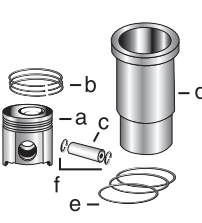
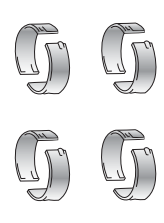
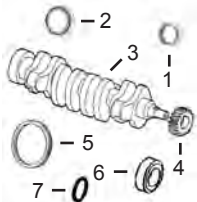
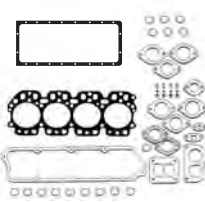
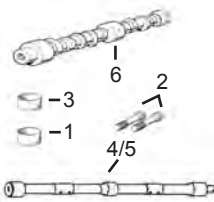
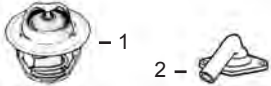
(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

(5) Saran Engines may use TRE64354.

(6) Helicoidal Gears.

(7) Saran Engines.

(8) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, and TR119874 Bushing) is available.

300 Series Engine & Equipment Model 4.276D Small Pin 4 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.375 in 35 mm APPLICATIONS: AGRICULTURAL 2630 2640 CONSTRUCTION 410C										
	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TRE19831 Consists of:		TRE27352 Std.		TAT21139 Std.		TAR97517 Std.	
	1) TAT86990		a) TAR63342		TRE27353 .010		TAT21132 .010		TAR97653 .010	
	2) TIK86990		b) TRE66820		TRE27360 .020		TAT21134 .020		TAR97654 .020	
			c) TR125754		TRE27368 .030		TAT21136 .030		TAR97655 .030	
			d) TR80500							
			e) TAR65507							
			f) TM41029		Use 4		Use 1		Use 4	
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Rocker Arm 3) Rocker Shaft 4) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		1) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft					
	1) TAR67942 2) TRE44574 3) TRE56792 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501568 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TR57450 x4 2) TR74195 x8 (4) 3) TR57160 x6 4) TAR69710 R/H 5) TAR69711 L/H 6) TR82820 (2)		1) TRE65580 (1) 2) TRE31973 3) TR54987 4) TR85363 x18 (3)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
			Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve	
	TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
										
	1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector	
	1) TAR48675 180° F 2) TT23620		TRE42211		Without Impeller TRE19507	With Impeller TRE62658	TRE37503		TR60746 TR48000	

(1) This engine may use standard flow Pump, Oil TRE55343.

(2) Threaded Type.

(3) From ESN 137128 Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(4) When used on connecting rods marked R54617, torque bolts to 95 ft.lbs. Only.

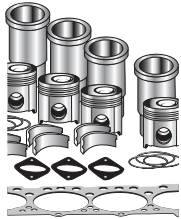
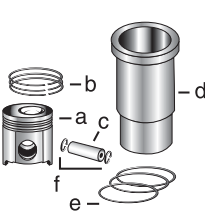
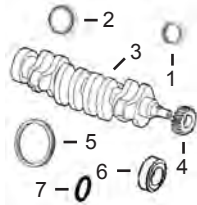
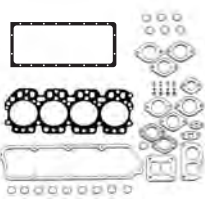
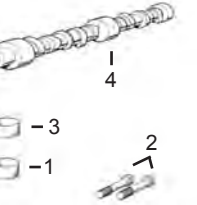
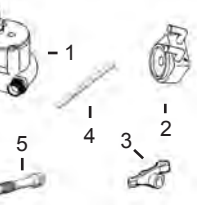
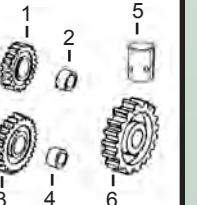
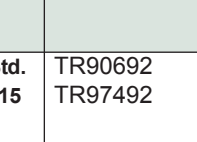
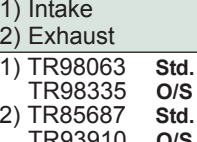
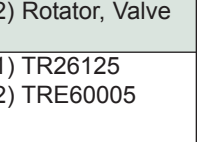
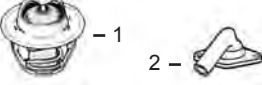
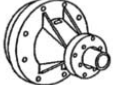
300 Series Engine & Equipment Model											
4.276D		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
Large Pin		2) Engine I/F Kit		TRE28966		TRE27352 Std.		TAT21139 Std.		TAR97517 Std.	
4 Cyl		1) TRE63694		Consists of:		TRE27353 .010		TAT21132 .010		TAR97653 .010	
Bore: 4.19 in 106.5 mm		2) TIK63694		a) TRE28919 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114		TRE27360 .020		TAT21134 .020		TAR97654 .020	
Pin Ø: 1.625 in 41 mm						TRE27368 .030		TAT21136 .030		TAR97655 .030	
						Use 4		Use 1		Use 4	
APPLICATIONS:											
CONSTRUCTION		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Rocker Arm 3) Rocker Shaft 4) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
340D 455E/G		3) Crankshaft		2) Head Gasket Set		4) Bal. Shaft R/H					
344E 490D		4) Crankshaft, Gear		3) Head Gasket		5) Bal. Shaft L/H					
410C/D 493D		5) Ring Gear		4) Oil Pan Gasket		6) Camshaft					
440C 510B		6) Sleeve, Front		5) Rocker Cover Gsk							
450E/G		7) Packing, Sleeve									
		1) TAR67942 2) TRE44574 3) TRE56792 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501568 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TR57451 x4 2) TR74195 x8 (4) 3) TR57160 x6 4) TAR69710 R/H 5) TAR69711 L/H 6) TR82820 (2)		1) TRE65580 (1) 2) TRE31973 3) TR54987 4) TR85363 x18 (3)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector			
1) TAR48675 180° F 2) TT23620		TRE42211		Without Impeller	With Impeller	TRE37503		TR60746 TR48000			
				TRE19507	TRE62658						

(1) This engine may use standard flow Pump, Oil TRE55343.

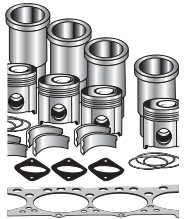
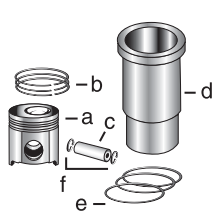
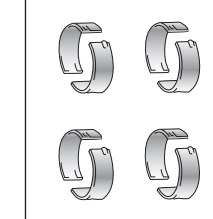
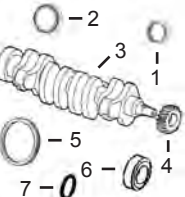
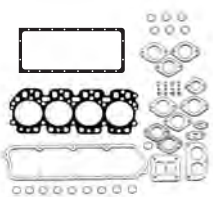
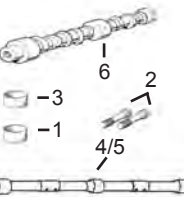
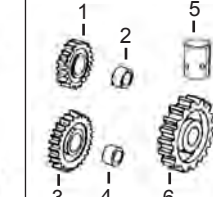
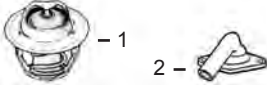
(2) Threaded Type.

(3) From ESN 137128 Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(4) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

300 Series Engine & Equipment Model 4045D Liter Designated 4 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.625 in 41 mm APPLICATIONS: AGRICULTURAL 6100 SE6100 CONSTRUCTION 340D 455E 344E 490D 410C/D 493D 440C 510B 450E/G										
	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TRE28966 Consists of:		TRE27352 Std.		TAT21139 Std.		TAR97517 Std.	
	1) TRE63694		a) TRE28919		TRE27353 .010		TAT21132 .010		TAR97653 .010	
	2) TIK63694		b) TRE66820		TRE27360 .020		TAT21134 .020		TAR97654 .020	
			c) TR124230		TRE27368 .030		TAT21136 .030		TAR97655 .030	
			d) TR80500							
			e) TAR65507							
			f) TR54114		Use 4		Use 1		Use 4	
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Camshaft					
	1) TAR67942 2) TRE44574 3) TRE56792 (*) 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501568 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TR57451 x4 2) TR74195 x8 (7) 3) TR57160 x6 4) TR82820 (4)		1) TRE65580 (1) 2) TRE31929 (6) 3) TRE31973 4) TR54987 5) TR85363 x18 (5)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
										
	Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve	
	TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S		1) TRE31617 2) TR91889		1) TR26125 2) TRE60005	
										
	1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Water Pump	
	1) TAR48675 180° F (2) 2) TT23620		TRE42211 TRE38009 (3)		See Chart on Page 81		TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164		TRE41157	
									1) Seal, Injector 2) Injector, Pencil	
									1) TR60746 TR48000 2) TRE38087	

(*) Crankshaft (m) R54501. This Engines model may also use crankshaft TRE54883 60mm Snout; (m) R90825, R120009. PLEASE VERIFY.
(1) Saran engines use TRE55343 Standard flow.
(2) Saran engines may use TRE64354.
(3) Saran Engines.
(4) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, Tappets and TR119874 Bushing) is available.
(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(6) Always verify Oil Cooler Type.
(7) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs.

300 Series Engine & Equipment Model											
4.276T		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
4 Cyl		2) Engine I/F Kit		TRE53073 Consists of: a) TRE48469 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030		TAR97517 Std. TAR97653 .010 TAR97654 .020 TAR97655 .030	
Bore: 4.19 in 106.5 mm Pin Ø: 1.625 in 41 mm		1) TRE61612				Use 4		Use 1		Use 4	
2) TIK61612											
APPLICATIONS:											
CONSTRUCTION		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Rocker Arm 3) Rocker Shaft 4) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
340D 510C 344G 540D 410C/D (T) 548D 440C 550/A/B/G 444E/G 555/A/B/G 448D 590D 450E/G 595 455E/G 595D 490E 610B/C 495D 650G		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft					
		1) TAR67942 2) TRE44574 3) TRE56792 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501568 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TR57451 x4 2) TR74195 x8 (5) 3) TR57160 x6 4) TAR69710 R/H 5) TAR69711 L/H 6) TR82820 (3)		1) TRE65580 (1) 2) TRE31973 3) TR54987 4) TR85363 x18 (4)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
		Valve, Intake		Valve, Exhaust (2)		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR83071 Std. TR89223 .003 TR89224 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector			
1) TAR48675 180° F 2) TT23620		TRE42211		Without Impeller TRE19510	With Impeller TRE11348	TRE37503		TR60746 TR48000			

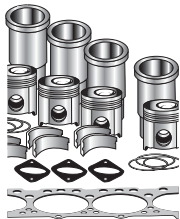
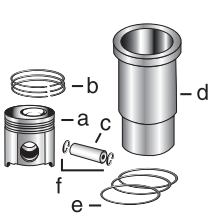
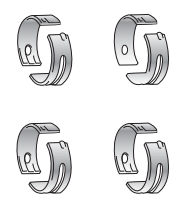
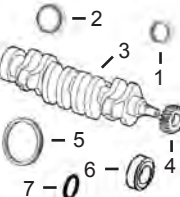
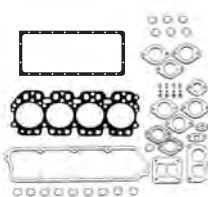
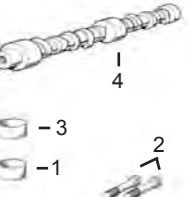
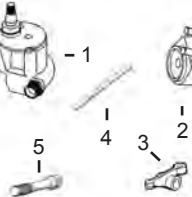
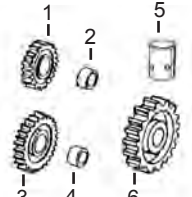
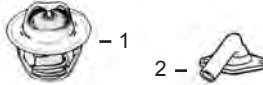
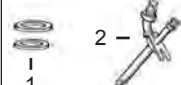
(1) This engine may use Standard Flow Pump, Oil TRE55343.

(2) Do not use 45° Valves with RE56545 Head.

(3) Threaded Type.

(4) From ESN 137128 Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

300 Series Engine & Equipment Model											
4045T		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
Liter Designated		2) Engine I/F Kit		TRE53073		TRE27352 Std.		TAT21139 Std.		TAR97517 Std.	
4 Cyl		1) TRE61612		Consists of:		TRE27353 .010		TAT21132 .010		TAR97653 .010	
Bore: 4.19 in 106.5 mm		2) TIK61612		a) TRE48469 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114		TRE27360 .020		TAT21134 .020		TAR97654 .020	
Pin Ø: 1.625 in 41 mm						TRE27368 .030		TAT21136 .030		TAR97655 .030	
						Use 4		Use 1		Use 4	
APPLICATIONS:											
AGRICULTURAL		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
CONSTRUCTION		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		4) Camshaft					
340D 510C 344G 510D 410C/D (T) 540D 440C 548D 444E/G 550/A/B/G 448D 555/A/B/G 450E/G 590D 455E/G 595D 490E 610B/C 495D 650G		1) TAR67942 2) TRE44574 3) TRE56792 (*) 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501568 2) TRE38851 3) TR125863 4) TR97342 5) TR73521		1) TR57451 x4 2) TR74195 x8 (7) 3) TR57160 x6 4) TR82820 (4)		1) TRE65580 (1) 2) TRE31929 (6) 3) TRE31973 4) TR54987 5) TR85363 x18 (5)		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve	
		TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S. 2) TR85687 Std. TR93910 O/S.		1) TRE31617 2) TR91889		1) TR26125 2) TRE60005	
											
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Water Pump		1) Seal, Injector 2) Injector, Pencil	
1) TAR48675 180°F (2) 2) TT23260		TRE42211 TRE38009 (3)		See Chart on Page 81		TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164		TRE41157		1) TR60746 TR48000 2) TRE38087	

(*) Crankshaft (m) R54501. This Engines model may also use crankshaft TRE54883 60mm Snout; (m) R90825, R120009. PLEASE VERIFY.

(1) Saran engines use TRE55343 Standard flow.

(2) Saran engines may use TRE64354.

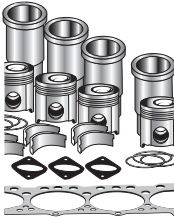
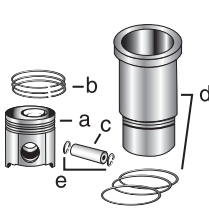
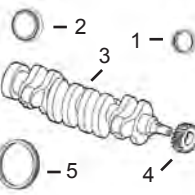
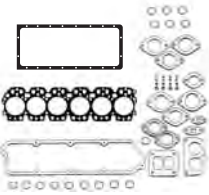
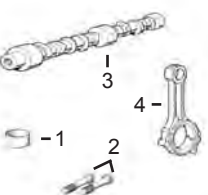
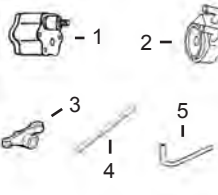
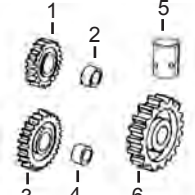
(3) Saran Engines.

(4) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, Tappets and TR119874 Bushing) is available.

(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(6) Always verify Oil Cooler Type.

(7) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs.

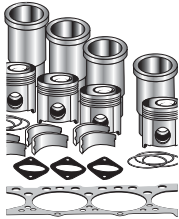
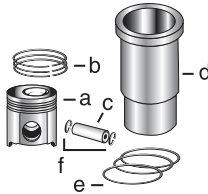
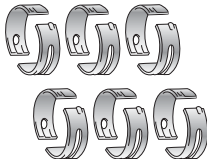
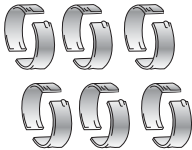
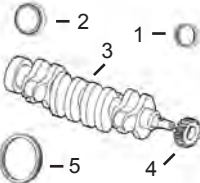
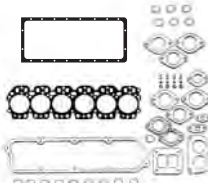
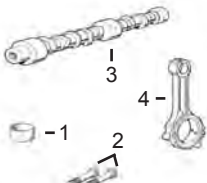
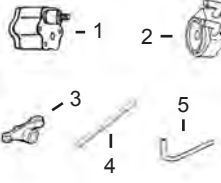
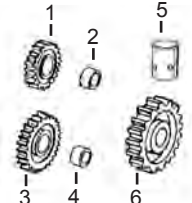
300 Series Engine & Equipment Model 6.303 > 158,975 O'rings on Liner 6 Cyl Bore: 3.86 in 98 mm Pin Ø: 1.185 in 30 mm Block (m): T24967, T24968 Con Rod (m): T20007, R81410 APPLICATIONS: CONSTRUCTION 544					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TPLK481 Consists of: a) TT23481 b) TAR70633 c) TT23482 d) TAR51902 e) TR51112	TRE27352 Std.	TAT21139 Std.	TRE27348 Std.
	1) TOK6481		TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27349 .010 TRE27358 .020 TRE27364 .030
	2) TIK6481		Use 6	Use 1	Use 6
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod		
	1) TAR67942 2) TRE44574 (1) 3) TAT22562 4) TT20094 5) TR114282 (142T)	1) TRE38568 2) TRE38571 3) TR98462 4) TR97344 5) TR75728	1) TT23471 x6 2) TR74194 x12 (2) 3) TR82821 (3) 4) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
	TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
Thermostats	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
TAR70601 180° F (*) TAR77411 195° F (*)	TRE42211	Without Impeller	With Impeller	TAR89564	TR60746 TR48000
		TRE19510	TMX132		

(*) Verify JD parts manual.

(1) Do not use with flywheel housing (m) T20300,T22991.

(2) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(3) Threaded Type.

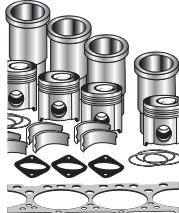
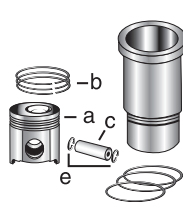
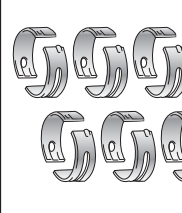
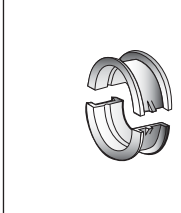
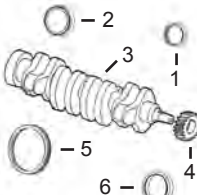
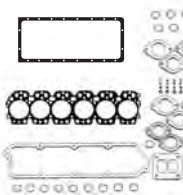
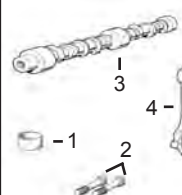
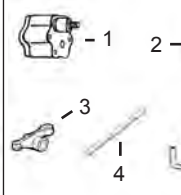
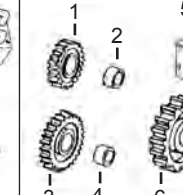
300 Series Engine & Equipment Model						
6.303 158,976 > O'rings on Block 6 Cyl Bore: 3.86 in 98 mm Pin Ø: 1.185 in 30 mm Block (m): R53260, R55035, R55351 R72970, R79280, T32346 Con Rod (m): T20007, R81410 <u>APPLICATIONS:</u> AGRICULTURAL 3420 CONSTRUC- TION ⁵⁴⁰ 544	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TAR71591 Consists of: a) TT23481 b) TAR70633 c) TT23482 d) TT32340 e) TAR71617 f) TR51112	TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030	
	1) TOK6591					
	2) TIK6591					
			Use 6	Use 1	Use 6	
						
	1) Front Seal 2) Rear Seal 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	1) O/H Gasket Set 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Camshaft 4) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
	1) TAR67942 2) TRE44574 (1) 3) TAT22562 4) TT20094 5) TR114282 (142T)	1) TRE38568 2) TRE38571 3) TR98462 4) TR97344 5) TR75728	1) TT23471 x6 2) TR74194 x12 (2) 3) TR82821 (3) 4) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
	TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627	
	Thermostats		Water Pump Repair Kit			
			Without Impeller	With Impeller		
TAR70601 180°F (*) TAR77411 195°F (*)	TRE42211	TRE19510	TMX132	TAR89564	TR60746 TR48000	

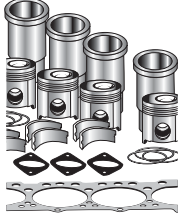
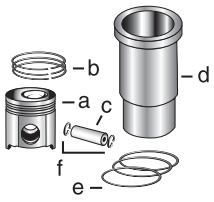
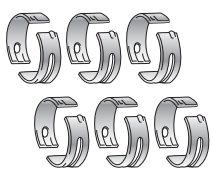
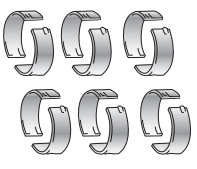
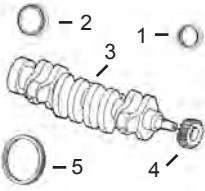
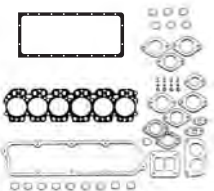
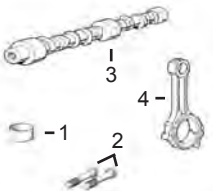
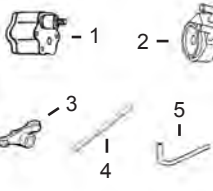
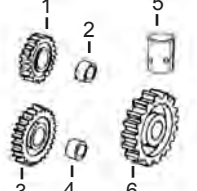
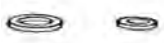
(*) Verify JD parts manual.

(1) Do not use with fly wheel housing (m) T20300, T22991.

(2) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(3) Threaded Type.

300 Series Engine & Equipment Model										
6.329 > 277,548 O'rings on liner Small Pin 6 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.185 in 30 mm Con Rod (m): T20007, R81410 APPLICATIONS: AGRICULTURAL 699 3120 CONSTRUCTION 540A	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TPLK310 Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TAR51903 e) TR51112		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030	
	1) TOK6310									
	2) TIK6310									
					Use 6		Use 1		Use 6	
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Camshaft 4) Con Rod					
	1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR114282 (142T) 6) TR81989		1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728		1) TT23471 x6 2) TR74194 x12 (1) 3) TR82821 (2) 4) TAT18005		1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
			Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve	
TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627		
										
Thermostats		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector		
TAR70601 180 °F (*) TAR77411 195 °F (*)		TRE42211		Without Impeller		With Impeller		TAR89564		
				TMX9398		TMX131		TR60746 TR48000		

300 Series Engine & Equipment Model 6.329 > 277,548 O'rings on block Small Pin 6 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.185 in 30 mm Con Rod (m): T20007, R81410 APPLICATIONS: AGRICULTURAL 499 699 3120 4030 4420 CONSTRUCTION 540A 544A 570A										
	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TAR71593 Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TR116463 e) TAR71618 f) TR51112		TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030		TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030		TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030	
	1) TOK6593 2) TIK6593				Use 6		Use 1		Use 6	
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Camshaft 4) Con Rod					
	1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR114282 (142T)		1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 (1) 5) TR75728		1) TT23471 x6 2) TR74194 x12 (2) 3) TR82821 (3) 4) TAT18005		1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752		1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070	
	Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
	TR79623 Std. TR79628 .003 TR79629 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
										
	Thermostats		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector	
					Without Impeller	With Impeller				
	TAR70601 180 °F (*) TAR77411 195 °F (*)		TRE42211		TMX9398	TMX131	TAR89564		TR60746 TR48000	

(*) Verify JD parts manual.

(1) For Tractor Model 4030 order TR97345.

(2) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

(3) Threaded Type.

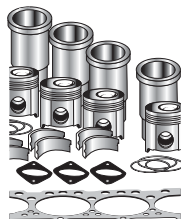
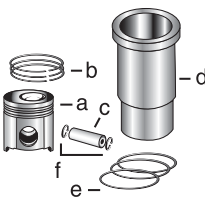
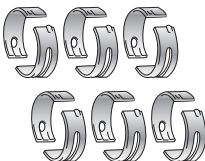
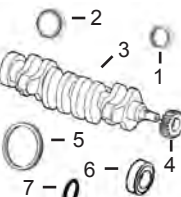
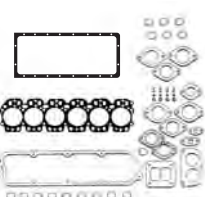
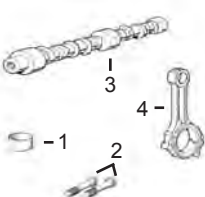
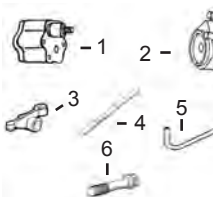
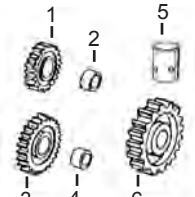
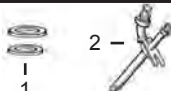
300 Series Engine & Equipment Model					
6.329 277,549 > O'rings on block Large Pin 6 Cyl Bore: 4.02 in 102 mm Pin Ø: 1.375 in 35 mm APPLICATIONS: AGRICULTURAL 499 3530 950 4030 960 4400 2840 4425 3130 CONSTRUCTION 444 444C 444D 444CH 544A 570A 710B					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR78041 Consists of:	TRE27352 Std.	TAT21139 Std.	TRE27348 Std.
	1) TAT86986	a) TAR77762	TRE27353 .010	TAT21132 .010	TRE27349 .010
	2) TIK86986	b) TAR55759	TRE27360 .020	TAT21134 .020	TRE27358 .020
		c) TR125754	TRE27368 .030	TAT21136 .030	TRE27364 .030
		d) TR116463			
		e) TAR71618			
		f) TM41029	Use 6	Use 1	Use 6
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod		
	1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR114282 (142T)	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 (1) 5) TR75728	1) TR55647 x6 2) TR74194 x12 3) TR82821 (2) 4) TRE16495 (3)	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
Thermostats	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
TAR70601 180 °F (*) TAR77411 195 °F (*) TRE33705 180 °F (*)	TRE42211	Without Impeller	With Impeller	TAR89564	TR60746 TR48000
		TMX9398	TMX131		

(*) Verify JD manual.

(1) For Tractor Model 4030 order TR97345.

(2) Threaded Type.

(3) For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt TR80033.

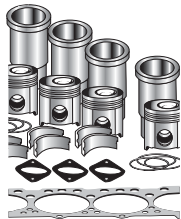
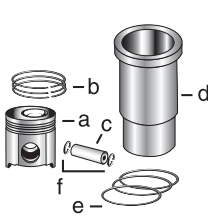
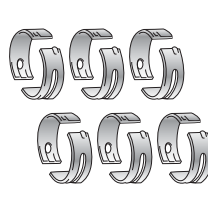
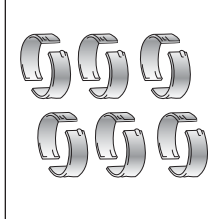
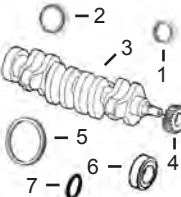
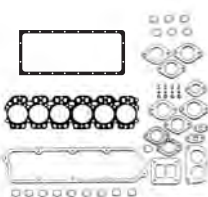
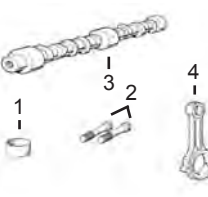
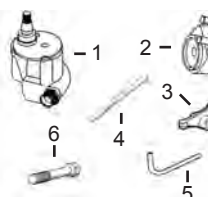
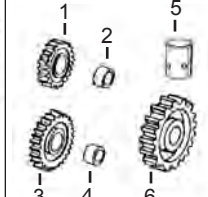
300 Series Engine & Equipment Model 6.359D 6 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.375 in 35 mm APPLICATIONS: AGRICULTURAL 955 3040 3640 975 3050 4420 985 3140 4530 1055 3150 7440 1075 3155 7445 2940 3155TSS 9900 2950 3255 9910 2955 3350 9920 CONSTRUCTION 444D 570B					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE30250 Consists of: a) TRE19282 b) TRE66820 c) TR125754 d) TR116281 e) TAR65507 f) TM41029	TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030
	1) TRE50784		Use 6	Use 1	Use 6
	2) TIK50784				
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod		
	1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR28811 (129T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR55647 x6 2) TR80033 x12 3) TR82821 (3) 4) TRE16495	1) TRE55343 (2) 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752 6) TR85363 x26 (4)	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
TR79623 Std. TR79628 .003 TR79629 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627	
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Transmission Oil Pump	
		Without Impeller	With Impeller	TAL120106	TAL68094
TAR48675 180° F (1)	TRE42211	See Chart on Page 81		Verify P/N for your application	
					1) Seal, Injector 2) Injector, Pencil 1) TR60746 TR48000 2) TAR89564

- (1) Saran engines may use TRE64354.
 (2) Some Engines Models may use High Capacity Pump, Oil TRE65580.
 (3) Threaded Type.
 (4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

300 Series Engine & Equipment Model											
6059D		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
Liter Designated		2) Engine I/F Kit		TRE30250 Consists of:		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
6 Cyl		1) TRE50784		a) TRE19282		TRE27353 .010		TAT21132 .010		TRE27349 .010	
Bore: 4.19 in 106.5 mm		2) TIK50784		b) TRE66820		TRE27360 .020		TAT21134 .020		TRE27358 .020	
Pin Ø: 1.375 in 35 mm				c) TR125754		TRE27368 .030		TAT21136 .030		TRE27364 .030	
				d) TR116281		Use 6		Use 1		Use 6	
				e) TAR65507							
				f) TM41029							
APPLICATIONS:											
AGRICULTURAL		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
2955 3650 3155 9900 3155TSS 9910 3255 9920 3640		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Camshaft 4) Con Rod					
CONSTRUCTION		1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728		1) TR55647 x6 2) TR80033 x12 3) TR82821 (7) 4) TRE16495		1) TRE55343 (2) 2) TRE31929 3) TRE31973 (5) 4) TR54986 5) TR113752 6) TR85363 x26 (1)		1) TAT24252 (4) 2) TT26321 3) TAT18009 (4) 4) TT20034 5) TT20073 6) TT20070 (4)	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve	
		TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S		1) TRE31617 2) TR91889		1) TR26125 2) TRE60005	
1) Thermostat 2) Thermostat Cover		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Transmission Oil Pump		1) Seal, Injector 2) Injector, Pencil	
TAR48675 180° F (3)		TRE42211 TRE38009 (6)		See Chart on Page 81		TAR97708 (m) R73604		TAL120106 TAL68094		1) TR60746 TR48000 2) TRE36936	
								Verify P/N for your application			

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
 (2) Some of these engine models may use High Capacity Pump, Oil TRE65580.
 (3) Saran engines may use TRE64354.
 (4) Helicoidal Gears.

(5) To ESN 379968.
 (6) Saran Engines.
 (7) Threaded Type.

300 Series Engine & Equipment Model		200 Series		100 Series	
6.359T 6 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm					
					
					
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing
		2) Engine I/F Kit	TRE33115 Consists of: a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114	TRE27352 Std. TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21139 Std. TAT21132 .010 TAT21134 .020 TAT21136 .030
		1) TRE50783			TRE27348 Std. TRE27349 .010 TRE27358 .020 TRE27364 .030
		2) TIK50783		Use 6	Use 1
					Use 6
APPLICATIONS: AGRICULTURAL 3140C 7445 3540 7484 3550 9400 4050 9930 7200 CONSTRUCTION 444D 544E/EH/G 570B 710B/C					
					
					
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw
		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
		1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR57451 x6 2) TR80033 x12 3) TR82821 (6) 4) TRE58347	1) TRE65580 (3) 2) TRE31929 3) TRE31973 (5) 4) TR54986 5) TR113752 6) TR85363 x26 (1)
					1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 6) TT20070
		Valve, Intake	Valve, Exhaust (4)	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
		TR83071 Std. TR89223 .003 TR89224 .015	TR79624 Std. TR79625 .003 TR79626 .015	1) TR73064 Std. 2) TR51734 Std.	1) TT20129 2) TT20077
		Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	Transmission Oil Pump
		TAR48675 180° F (2)	TRE42211	Without Impeller With Impeller See Chart on Page 81	TAL120106 Verify P/N for your application
					1) Seal, Injector 2) Injector, Pencil 1) TR60746 TR48000 2) TRE37503

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

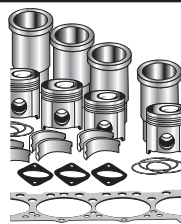
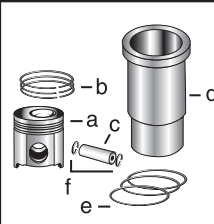
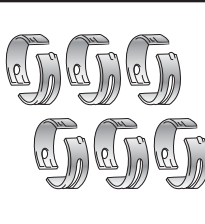
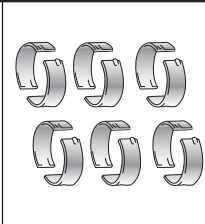
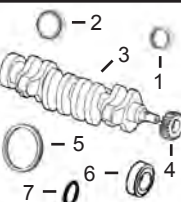
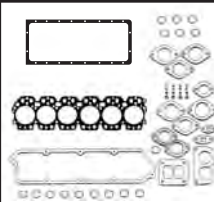
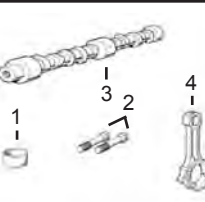
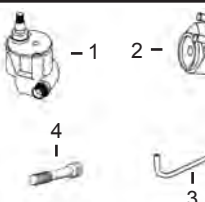
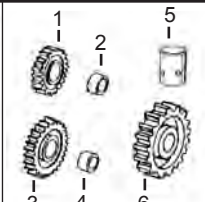
(2) Saran engines may use TRE64354.

(3) Some Engine Models may use Standard Capacity Pump, Oil TRE55343.

(4) Do not use 45° Valves with RE56545 Head.

(5) To ESN 379968.

(6) Threaded Type.

300 Series Engine & Equipment Model						
6059T		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
Liter Designated		2) Engine I/F Kit	TRE33115	TRE27352 Std.	TAT21139 Std.	TRE27348 Std.
6 Cyl		1) TRE50783	Consists of: a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114	TRE27353 .010	TAT21132 .010	TRE27349 .010
Bore: 4.19 in 106.5 mm		2) TIK50783		TRE27360 .020	TAT21134 .020	TRE27358 .020
Pin Ø: 1.62 in 41 mm				TRE27368 .030	TAT21136 .030	TRE27364 .030
				Use 6	Use 1	Use 6
APPLICATIONS:						
AGRICULTURAL		1) Front Seal	1) O/H Gasket Set	1) Bush, Con Rod	1) Pump, Oil	1) Lower Gear
3140C		2) Rear Seal		2) Bolt, Con Rod	2) Oil Cooler	2) Lower Bushing
6600		3) Crankshaft	2) Head Gasket Set	3) Camshaft	3) Pump, Oil Tube	3) Upper Gear
7200		4) Crankshaft, Gear	3) Head Gasket	4) Con Rod	4) Cyl Hd Cap Screw	4) Upper Bushing
7445		5) Ring Gear	4) Oil Pan Gasket			5) Cam. Follower
7484		6) Sleeve, Front	5) Rocker Cover Gsk			6) Cam. Gear
9400		7) Packing, Sleeve				
9930						
CONSTRUCTION		1) TAR67942	1) TRE501580	1) TR57451 x6	1) TRE65580 (3)	1) TAT24252 (4)
444D		2) TRE44574	2) TRE38852	2) TR80033 x12	2) TRE31929	2) TT26321
544G/E/EH		3) TAT22562	3) TR114157	3) TR82821 (6)	3) TR113752	3) TAT18009 (4)
570B		4) TT20094	4) TR97344	4) TRE58347	4) TR85363 x26 (1)	4) TT20034
710B/C		5) TR28811 (129T) or TR114282 (142T)	5) TR75728			5) TT20073
		6) TR81989				6) TT20070 (4)
		7) TH35244				
		Valve, Intake	Valve, Exhaust	Insert, Valve	1) Seal, Valve	1) Spring, Valve
				1) Intake	2) Lock, Valve	2) Rotator, Valve
				2) Exhaust		
		TR98062 Std.	TR90692 Std.	1) TR98063 Std.	1) TRE31617	1) TR26125
		TR97490 .015	TR97492 .015	TR98335 O/S	2) TR91889	2) TRE60005
				2) TR85687 Std.		
				TR93910 O/S		
						
Thermostat		Fuel Transfer Pump	Water Pump Rep Kit	Water Pump	Water Pump	Transmission Oil Pump
			a) Without Impeller b) With Impeller			
TAR48675 180° F (2)		TRE42211	See Chart on Page 81	TAR97708	TRE41157	TAL120106
		TRE38009 (5)		(m) R73604		
						1) Seal, Injector
						2) Injector, Pencil
						1) TR60746
						TR48000
						2) TRE38087

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

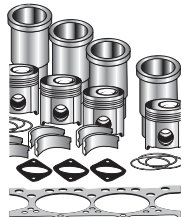
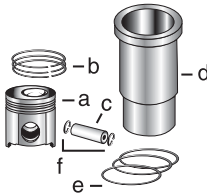
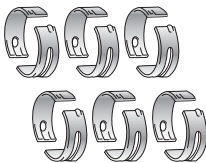
(2) Saran engines may use TRE64354.

(3) Some Engine Models may use Standard Capacity Pump, Oil TRE55343.

(4) Helicoidal Gears.

(5) Saran Engines.

(6) Threaded Type.

300 Series Engine & Equipment Model						
6.414D Large Pin 6 Cyl 						

(1) Crankshaft (m) R104523.

(2) Threaded Type.

(3) From ESN 137165> The Cylinder Head Cap Screw is 4.5 in (114 mm) in Length.

(4) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

300 Series Engine & Equipment Model		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
6068D											
Liter Designated Large Pin		2) Engine I/F Kit		TRE28966		TRE27352 Std.		TAT21139 Std.		TAR97517 Std.	
6 Cyl		1) TOK3694		Consists of:		TRE27353 .010		TAT21132 .010		TAR97653 .010	
Bore: 4.19 in 106.5 mm		2) TIK3694		a) TRE28919 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114		TRE27360 .020		TAT21134 .020		TAR97654 .020	
Pin Ø: 1.62 in 41 mm						TRE27368 .030		TAT21136 .030		TAR97655 .030	
						Use 6		Use 1		Use 6	
APPLICATIONS:											
AGRICULTURAL 6506		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
OEM Marine Ag Construction		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		3) Camshaft					
		1) TAR67942 2) TRE44574 3) TRE45517 (3) 4) TT20094 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244		1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728		1) TR57451 x6 2) TR74195 x12 (5) 3) TR82821 (2)		1) TRE65580 2) TR85363 x26 (4)		1) TAT24252 (1) 2) TT26321 3) TAT18009 (1) 4) TT20034 5) TT20073 6) TT20070 (1)	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Seal, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve	
		TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S		1) TRE31617 2) TR91889		1) TR26125 2) TRE60005	
										1) Seal, Injector 2) Injector, Pencil	
Thermostat		Fuel Transfer Pump		Water Pump Repair Kit		Water Pump					
TRE64354 180° F		TRE42211		Without Impeller	With Impeller	TRE41157				1) TR60746 TR48000 2) TRE38087	
				TRE19510	TRE11348						

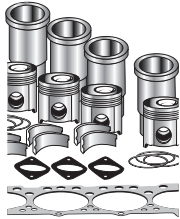
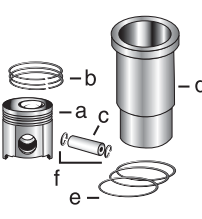
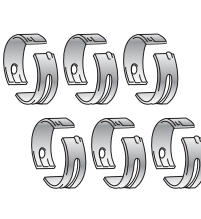
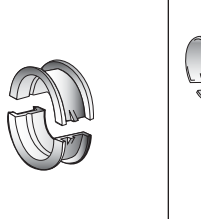
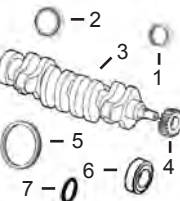
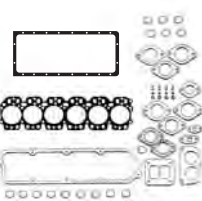
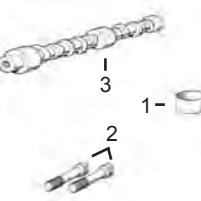
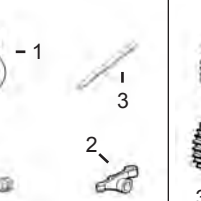
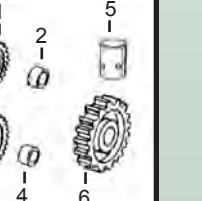
(1) Helicoidal Gears.

(2) Threaded Type.

(3) Crankshaft (m) R104523.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

300 Series Engine & Equipment Model											
6.414T		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
6 Cyl		2) Engine I/F Kit		TRE53073 Consists of:		TRE27352 Std.		TAT21139 Std.		TAR97517 Std.	
Bore: 4.19 in 106.5 mm		1) TOK61614		a) TRE48469		TRE27353 .010		TAT21132 .010		TAR97653 .010	
Pin Ø: 1.62 in 41 mm		2) TIK61614		b) TRE66820		TRE27360 .020		TAT21134 .020		TAR97654 .020	
				c) TR124230		TRE27368 .030		TAT21136 .030		TAR97655 .030	
				d) TR80500		Use 6		Use 1		Use 6	
				e) TAR65507							
				f) TR54114							
APPLICATIONS:											
CONSTRUCTION		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod		1) Pump, Oil 2) Rocker Arm 3) Rocker Shaft 4) Cyl Hd Cap Screw		1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
544B/C/D 690D		3) Crankshaft		2) Head Gasket Set		3) Camshaft					
624E/EH/G 690D		4) Crankshaft, Gear		3) Head Gasket							
640 693D		5) Ring Gear		4) Oil Pan Gasket							
640D 750		6) Sleeve, Front		5) Rocker Cover Gsk							
643/D 750B		7) Packing, Sleeve									
648D 755											
655A/B 755A		1) TAR67942		1) TRE501580		1) TR57451 x6		1) TRE65580		1) TAT24252	
670A/B 755B		2) TRE44574		2) TRE38852		2) TR74195 x12 (5)		2) TRE31973		2) TT26321	
672A 755BMIL		3) TRE45517 (3)		3) TR114157		3) TR82821 (2)		3) TR54986		3) TAT18009	
672B 790E		4) TT20094		4) TR97344				4) TR85363 x26 (4)		4) TT20034	
		5) TR28811 (129T) or TR114282 (142T)		5) TR75728						5) TT20073	
		6) TR81989								6) TT20070	
		7) TH35244									
		Valve, Intake		Valve, Exhaust (1)		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve		1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
		TR83071 Std. TR89223 .003 TR89224 .015		TR79624 Std. TR79625 .003 TR79626 .015		1) TR73064 Std. 2) TR51734 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
											
Thermostat		Fuel Transfer Pump		Water Pump Repair Kit		Injector, Pencil		Seal, Injector			
TAR48675 180° F		TRE42211		Without Impeller With Impeller		TRE37503		TR60746 TR48000			
				See Chart on Page 81							

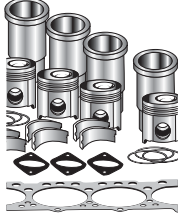
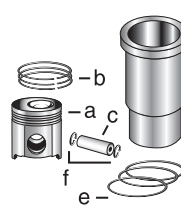
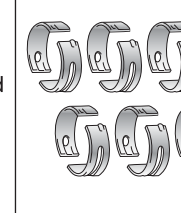
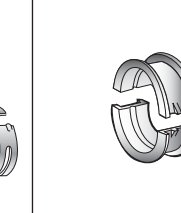
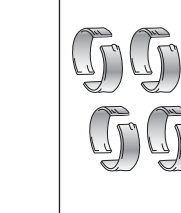
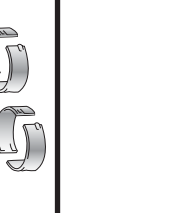
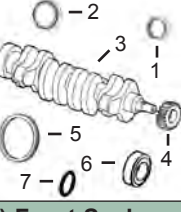
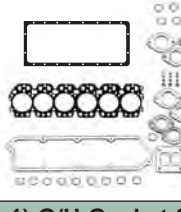
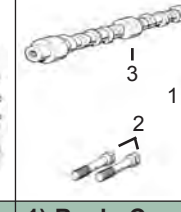
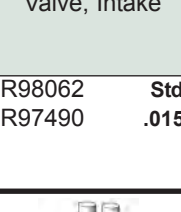
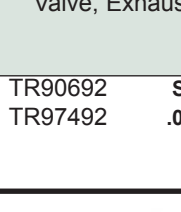
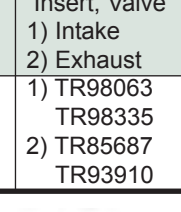
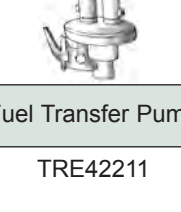
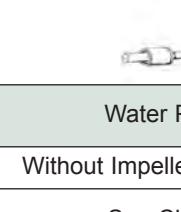
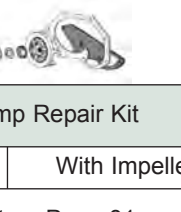
(1) Do not use 45° Valves with RE56545 Head.

(2) Threaded Type.

(3) Crankshaft (m) R104523.

(4) From ESN 137165> The Cylinder Head Cap Screw is 4.5 in (114 mm) in Length.

(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

300 Series		Engine & Equipment		Model	
6068T		Liter Designated		6 Cyl	
Bore: 4.19 in 106.5 mm		Pin Ø: 1.62 in 41 mm			
APPLICATIONS:		AGRICULTURAL			
6800 7500 6900 7600 7400 9400 7410					
CONSTRUCTION					
544B/C/D 672A/B 624E/EH/G 690D/E 640D 693D 643/D 750/B 648D 755 648E 755A/B 653 755BMIL 655A/B 790E 670A/B					
					
					
1) Engine O/H Kit		Piston-Liner Kit		Main Bearing	
2) Engine I/F Kit		TRE53073		TAT21139 Std.	
1) TOK61614		Consists of:		TAT21132 .010	
2) TIK61614		a) TRE48469 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114		TAT21134 .020	
				TAT21136 .030	
		Use 6		Use 1	
				Use 6	
					
1) Front Seal		1) O/H Gasket Set		1) Pump, Oil	
2) Rear Seal		2) Head Gasket Set		2) Cyl Hd Cap Screw	
3) Crankshaft		3) Head Gasket		1) Lower Gear	
4) Crankshaft, Gear		4) Oil Pan Gasket		2) Lower Bushing	
5) Ring Gear		5) Rocker Cover Gsk		3) Upper Gear	
6) Sleeve, Front				4) Upper Bushing	
7) Packing, Sleeve				5) Cam. Follower	
1) TAR67942		1) TRE501580		1) TRE65580	
2) TRE44574		2) TRE38852		2) TR85363 x26 (4)	
3) TRE45517 (3)		3) TR114157		1) TAT24252 (1)	
4) TT20094		4) TR97344		2) TT26321	
5) TR28811 (129T)		5) TR75728		3) TAT18009 (1)	
or				4) TT20034	
TR114282 (142T)				5) TT20073	
6) TR81989				6) TT20070 (1)	
7) TH35244					
					
Valve, Intake		Valve, Exhaust		1) Seal, Valve	
1) TR98062 Std.		1) TR90692 Std.		2) Lock, Valve	
TR97490 .015		TR97492 .015		1) TRE31617	
				2) TR91889	
				1) TR26125	
				2) TRE60005	
					
Thermostat		Fuel Transfer Pump		Water Pump	
TRE33705 180° F		TRE42211		TRE41157	
		Without Impeller		1) TR60746	
		With Impeller		TR48000	
		See Chart on Page 81		2) TRE38087	

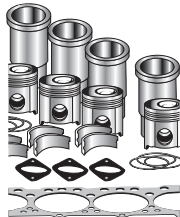
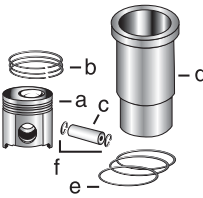
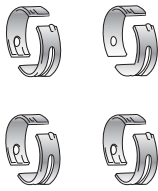
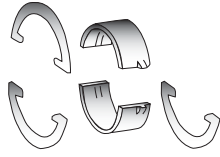
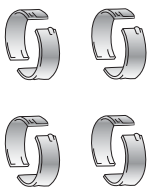
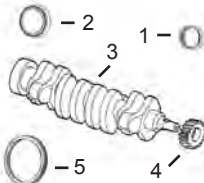
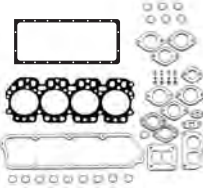
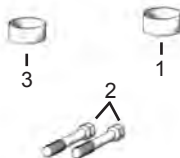
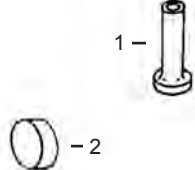
(1) Helicoidal Gears.

(2) Threaded Type.

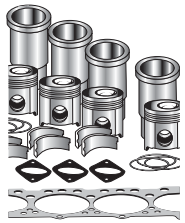
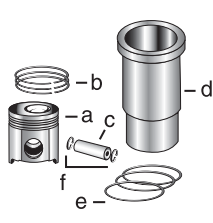
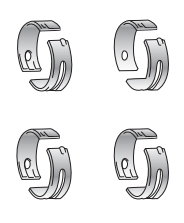
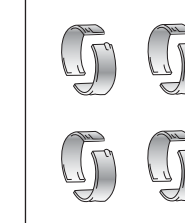
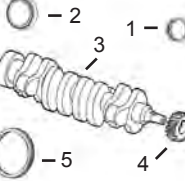
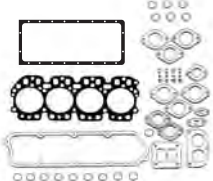
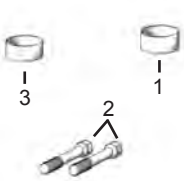
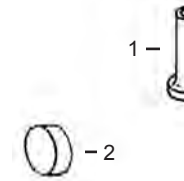
(3) Crankshaft (m) R104523.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

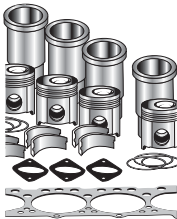
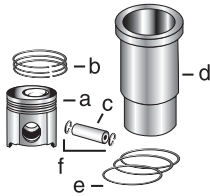
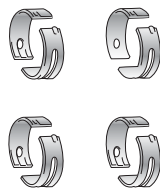
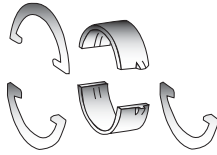
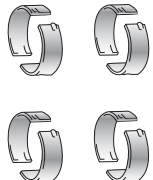
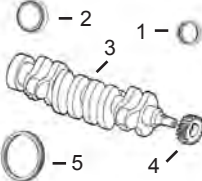
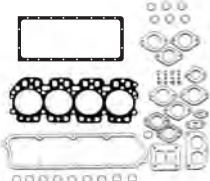
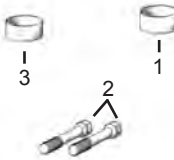
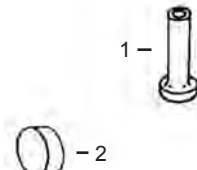
(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

400 Series Engine & Equipment Model 4.270 > 280,000 4 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): R46350, R46430, R40910 APPLICATIONS: AGRICULTURAL 3020 CONSTRUCTION 500 500A					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE23170 Consists of: a) TRE23172 b) TAR55630 c) TR44161 d) TR40615 e) TAR65507 f) TH80753	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 4	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR45723 Std. TAR46396 .010 TAR46397 .020 TAR46398 .030 Use 4
	1) TRG17898				
	2) TIK17898				
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Plug, Camshaft	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE520036 3) TAR40485 (1) c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53033 2) TAR53032 3) TR45616 4) TR71917	1) TR30939 x4 2) TR66452 x8 3) TR46903 x3	1) TR52773 2) TR26115	
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve
	TR26124 Std. ES > 157,001 TR44174 Std. ES 157,002-280,000	TR26123 Std. ES > 157,001 TR44175 Std. ES 157,002-280,000	1) TR43680 Std. 2) TR43681 Std.	1) TB367R x16	1) TR26125 2) TR28654 3) TR87627
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
TR36846 180° F	TAR53567	See Chart on Page 81		TAR50781	TR60746 TR48000

(1) New style crankshaft. To adapt to old style center hole needs to be enlarged 2.835 in. (72.0009 mm). Extra bolt holes need to be plugged with Allen head screws and tread lock.

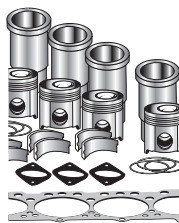
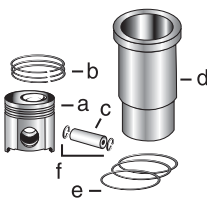
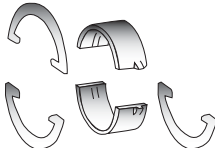
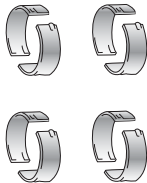
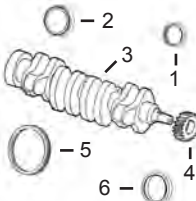
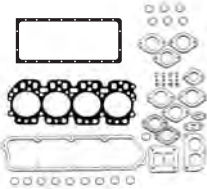
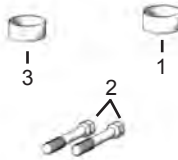
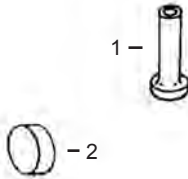
400 Series Engine & Equipment Model 4.270 > 280,000 4 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): R26160, R32020, R40850 APPLICATIONS: AGRICULTURAL 3010 3020 CONSTRUCTION 500 500A 500B 500C 510	    				
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE23173 Consists of:	TAR49243 Std.	TAR49242 Std.	TAR45723 Std.
	1) TRG17899	a) TRE23172	TAR49245 .010	TAR49238 .010	TAR46396 .010
	2) TIK17899	b) TAR55630	TAR49246 .020	TAR49239 .020	TAR46397 .020
		c) TR44161	TAR49247 .030	TAR49240 .030	TAR46398 .030
		d) TR32050			
		e) TAR40155			
		f) TH80753	Use 4	Use 1	Use 4
	     				
	1) Front Seal	1) O/H Gasket Set	1) Bush, Con Rod	1) Cam Follower	
	2) Rear Seal		2) Bolt, Con Rod	2) Plug, Camshaft	
			3) Bushing, Cam		
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE520036 3) TAR40485 (1) c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53033 2) TAR53032 3) TR45616 4) TR71917	1) TR30939 x4 2) TR66452 x8 3) TR46903 x3	1) TR26342 2) TR26115	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
	TR26124 Std. ES > 157,001 TR44174 Std. ES 157,002-280,000	TR26123 Std. ES > 157,001 TR44175 Std. ES 157,002-280,000	1) TR43680 Std. 2) TR43681 Std.	1) TB367R x16	1) TR26125 2) TR28654 3) TR87627
	Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	Injector, Pencil	Seal, Injector
TR36846 180° F	TAR53567 TRE42211	Without Impeller With Impeller	See Chart on Page 81	TAR50781	TR60746 TR48000

(1) New style crankshaft. To adapt to old style center hole needs to be enlarged 2.835 in. (72.0009 mm). Extra bolt holes need to be plugged with Allen head screws and tread lock.

400 Series Engine & Equipment Model 4.270 > 280,000 Early Power Booster 4 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): R26160, R32020, R40850 APPLICATIONS: AGRICULTURAL 3010 3020 CONSTRUCTION 500 500A 500B 500C 510					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TPLK163 Consists of: a) TRE23163 b) TAR65502 c) TR44161 d) TR32050 e) TAR40155 f) TH80753	TAR49243 Std.	TAR49242 Std.	TAR45723 Std.
	1) TOK4163		TAR49245 .010 TAR49246 .020 TAR49247 .030	TAR49238 .010 TAR49239 .020 TAR49240 .030	TAR46396 .010 TAR46397 .020 TAR46398 .030
	2) TIK4163		Use 4	Use 1	Use 4
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Plug, Camshaft	1) Head Bolt Kit
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE520036 3) TAR40485 (1) c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53033 2) TAR53032 3) TR45616 4) TR71917	1) TR30939 x4 2) TR66452 x8 3) TR46903 x3	1) TR26342 2) TR26115	1) TMX364 (2)
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve
TR26124 Std. ES > 157,001 TR44174 Std. ES 157,002-280,000	TR26123 Std. ES > 157,001 TR44175 Std. ES 157,002-280,000	1) TR43680 Std. 2) TR43681 Std.	1) TB367R x16	1) TR26125 2) TR28654 3) TR87627	
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
TR36846 180° F	TAR53567 TRE42211	Without Impeller With Impeller		TAR50781	TR60746 TR48000
		See Chart on Page 81			

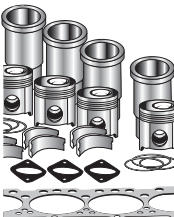
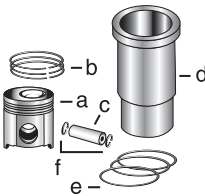
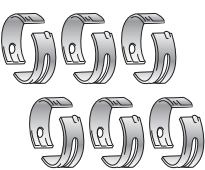
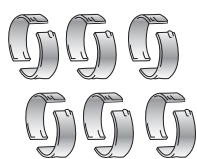
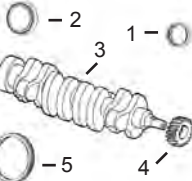
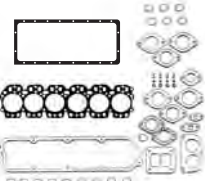
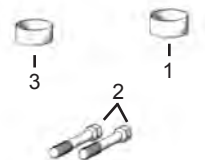
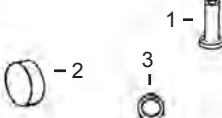
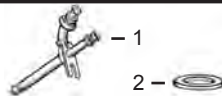
(1) New style crankshaft. To adapt to old style center hole needs to be enlarged 2.835 in. (72.0009 mm). Extra bolt holes need to be plugged with Allen head screws and tread lock.

(2) TMX364 Consists of: TR88042 x4, TR88043 x3, TR88044 x6, TR88045 x5.

400 Series Engine & Equipment Model 4.270 280,001 > 4 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): R40700, R47520, R48430, R50610, R72127 APPLICATIONS: AGRICULTURAL 3020 CONSTRUCTION 500A 500B 500C 510						
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TRE23165 Consists of: a) TRE23168 b) TAR55630 c) TR44161 d) TR40615 e) TAR65507 f) TH80753	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 4	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR45723 Std. TAR46396 .010 TAR46397 .020 TAR46398 .030 Use 4	
	1) TRG17900					
	2) TIK17900					
						
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Plug, Camshaft	1) Head Bolt Kit	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket				
	1) TAR49025 2) TRE520036 (1) 3) TAR40485 c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T) 6) TR63326	1) TAR53035 2) TAR53034 3) TR48292 4) TR71917	1) TR30939 x4 2) TR66452 x8 3) TR46903 x3	1) TR52773 2) TR26115	1) TMX364 (2)	
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR43883 Std. TR45003 .003 TR45004 .015	TR43679 Std. TR43787 .003 TR43788 .015	1) TR43680 Std. 2) TR43681 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627	
						
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector	
		Without Impeller	With Impeller			
TR36846 180 °F	TRE42211	See Chart on Page 81		TAR50781	TR60746 TR48000	

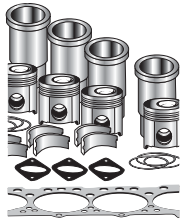
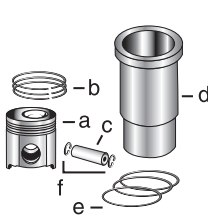
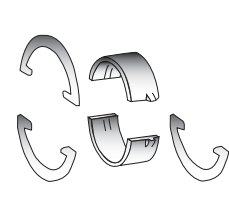
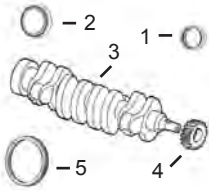
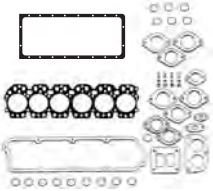
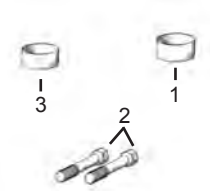
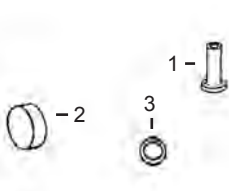
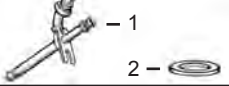
(1) New style crankshaft. To adapt to old style center hole needs to be enlarged 2.835 in. (72.0009 mm). Extra bolt holes need to be plugged with Allen head screws and tread lock.

(2) TMX364 Consists of: TR88042 x4, TR88043 x3, TR88044 x6, TR88045 x5.

400 Series Engine & Equipment Model 6.404D > 214, 999 6 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): (1) R26070, R33180, R34340, R40890, R40900 APPLICATIONS: AGRICULTURAL 4010 4020					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE23173	TAR49243 Std.	TAR49242 Std.	TAR45723 Std.
	1) TRG17901	Consists of:	TAR49245 .010	TAR49238 .010	TAR46396 .010
	2) TIK17901	a) TRE23172	TAR49246 .020	TAR49239 .020	TAR46397 .020
		b) TAR55630	TAR49247 .030	TAR49240 .030	TAR46398 .030
		c) TR44161			
		d) TR32050			
		e) TAR40155			
		f) TH80753	Use 6	Use 1	Use 6
					
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Plug, Camshaft 3) O'ring, Oil Cooler		
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket				
1) TAR49025 2) TRE520036 3) TRE53422 (5) 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53626 2) TAR53625 3) TR45615 4) TR71918	1) TR30939 x6 2) TR66452 x12 3) TR46903 x4	1) TR26342 2) TR26115 3) TR47153		
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
	TR26124 Std. ES > 82,801 TR44174 Std. ES 82,802-214,999	TR26123 Std. ES > 82,801 TR44175 Std. ES 82,802-214,999	1) TR43680 Std. 2) TR43681 Std.	1) TB367R x24	1) TR26125 2) TR28654 3) TR87627
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		1) Injector, Pencil 2) Seal, Injector	Pump, Oil, Quad Transmission
TR36846 180° F	TAR53567 (2) TRE42211 (3) TAR49771 (4)	Without Impeller	With Impeller	1) TAR50781 2) TR60746 TR48000	TAR41949 For Tractors 4010,4020
		See Chart on Page 81			

(1) Original Block.
 (2) ES > 82,801.
 (3) ES 82,802-422,365.
 (4) ES 422,366 >.

(5) TRE53422 will require front key **TR116311** for the front damper.

400 Series Engine & Equipment Model						
6.404D > 214,999 6 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): (1) R40930 <u>APPLICATIONS:</u> AGRICULTURAL 4010 4020						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TRE23170 Consists of: a) TRE23172 b) TAR55630 c) TR44161 d) TR40615 e) TAR65507 f) TH80753	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR45723 Std. TAR46396 .010 TAR46397 .020 TAR46398 .030 Use 6
		1) TRG17902				
		2) TIK17902				
						
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Plug, Camshaft 3) O'ring, Oil Cooler	
		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
		1) TAR49025 2) TRE520036 3) TRE53422 (5) 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53626 2) TAR53625 3) TR45615 4) TR71918	1) TR30939 x6 2) TR66452 x12 3) TR46903 x4	1) TR52773 2) TR26115 3) TR47153	
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
		TR26124 Std. ES > 157,001 TR44174 Std. ES 157,002-280,000	TR26123 Std. ES > 82,801 TR44175 Std. ES 82,802-214,999	1) TR43680 Std. 2) TR43681 Std.	1) TB367R x24	1) TR26125 2) TR28654 3) TR87627
		Thermostat				
			Fuel Transfer Pump	Water Pump Repair Kit	1) Injector, Pencil 2) Seal, Injector	Pump, Oil, Quad Transmission
				Without Impeller With Impeller	1) TAR50781 2) TR60746 TR48000	
TR36846 180° F			TAR53567 (2) TRE42211 (3) TAR49771 (4)	See Chart on Page 81		TAR41949 For Tractors 4010,4020

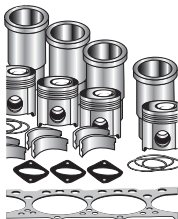
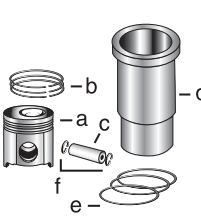
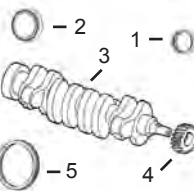
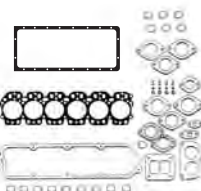
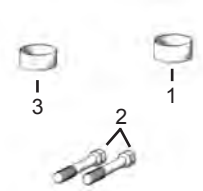
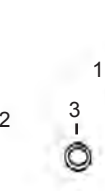
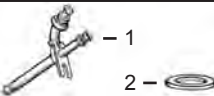
(1) Original Block.

(2) ES > 82,801.

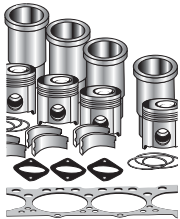
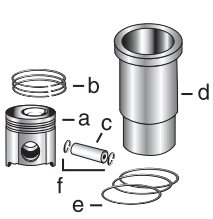
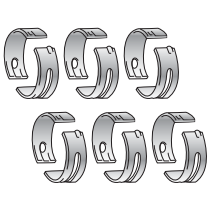
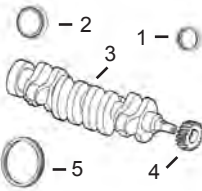
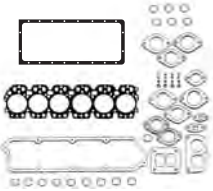
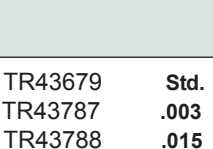
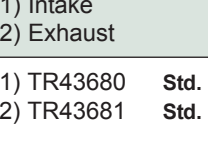
(3) ES 82,802-422,365.

(4) ES 422,366 >.

(5) TRE53422 will require front key TR116311 for the front damper.

400 Series Engine & Equipment Model 6.404D > 214,999 Early Power Booster 6 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): R26070, R33180, R34340, R40890, 40900 APPLICATIONS: AGRICULTURAL 4010 4020								
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit	TPLK163	TAR49243 Std.		TAR49242 Std.		TAR45723 Std.	
	1) TOK6163	Consists of: a) TRE23163 b) TAR65502 c) TR44161 d) TR32050 e) TAR40155 f) TH80753	TAR49245 .010		TAR49238 .010		TAR46396 .010	
	2) TIK6163		TAR49246 .020		TAR49239 .020		TAR46397 .020	
			TAR49247 .030		TAR49240 .030		TAR46398 .030	
			Use 6		Use 1		Use 6	
								
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Cam Follower 2) Plug, Camshaft 3) O'ring, Oil Cooler			
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket						
	1) TAR49025 2) TAR520036 3) TRE53422 (4) 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53626 2) TAR53625 3) TR45615 4) TR71918	1) TR30939 x6 2) TR66452 x12 3) TR46903 x4		1) TR26342 2) TR26115 3) TR47153			
		Valve, Intake	Valve, Exhaust		1) Lock, Valve		1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve	
		TR26124 Std. ES > 82,801 TR44174 Std. ES 82,802-214,999	TR26123 Std. ES > 82,801 TR44175 Std. ES 82,802-214,999		1) TR43680 Std. 2) TR43681 Std.		1) TB367R x24 1) TR26125 2) TR28654 3) TR87627	
								
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		1) Injector, Pencil 2) Seal, Injector		Pump, Oil, Quad Transmission		
TR36846 180° F	TAR53567 (1) TRE42211 (2) TAR49771 (3)	Without Impeller With Impeller		1) TAR50781 2) TR60746 TR48000		TAR41949 For Tractors 4010, 4020		

- (1) ES > 82,801.
 (2) ES 82,802-422,365.
 (3) ES 422,366 >.
 (4) TRE53422 will require front key **TR116311** for the front damper.

400 Series Engine & Equipment Model		215,000-335,845		6 Cyl	
6.404D					
Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm					
Block (m): R40610, R40620, R45950, R47170, R48440					
APPLICATIONS: AGRICULTURAL 4000 4010 4020 CONSTRUCTION ⁶⁰⁰					
					
1) Engine O/H Kit		Piston-Liner Kit		Main Bearing	
2) Engine I/F Kit		TRE23165 Consists of: a) TRE23168 b) TAR55630 c) TR44161 d) TR40615 e) TAR65507 f) TH80753		Thrust Bearing	
1) TRG17903				Con Rod Bearing	
2) TIK17903					
					
1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket		1) Cam Follower 2) Camshaft Kit 3) Plug, Camshaft 4) O'ring, Oil Cooler	
1) TAR49025 2) TRE520036 3) TRE53422 (5) 4) TR26049 (23T) 5) TR28811 (129T)		1) TAR53631 2) TAR53630 3) TR48291 4) TR71918		1) TR30939 x6 2) TR66452 x12 3) TR46903 x4	
				1) TR52773 2) TAR100386 3) TR26115 4) TR47153	
				1) TMX365 (1)	
					
Valve, Intake		Valve, Exhaust		1) Cap, Valve 2) Lock, Valve	
TR43883 Std. TR45003 .003 TR45004 .015		TR43679 Std. TR43787 .003 TR43788 .015		1) TR43680 Std. 2) TR43681 Std.	
				1) TT20129 2) TT20077	
					
Thermostat		Fuel Transfer Pump		1) Injector, Pencil 2) Seal, Injector	
TR36846 180° F		TAR53567 (2) TRE42211 (3) TAR49771 (4)		1) TAR50781 2) TR60746 TR48000	
		Without Impeller With Impeller		Pump, Oil, Quad Transmission	
		See Chart on Page 81		TAR41949 For Tractors 4000,4020	

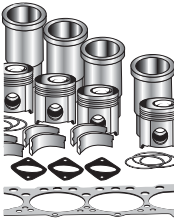
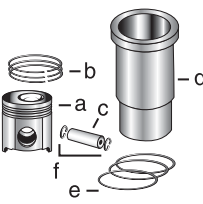
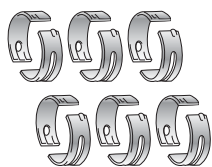
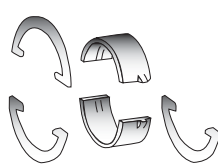
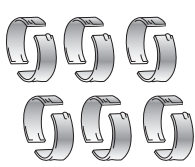
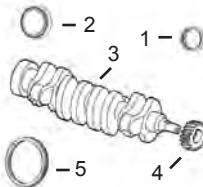
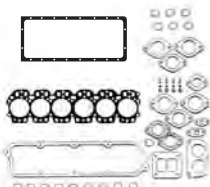
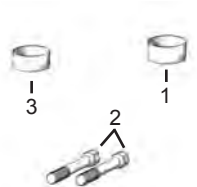
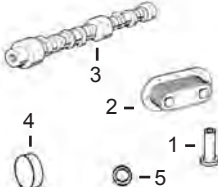
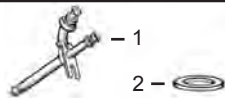
(1) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

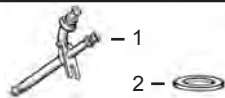
(2) ES > 82,801.

(3) ES 82,802-422,365.

(4) ES 422,366 >.

(5) TRE53422 will require front key **TR116311** for the front damper.

400 Series Engine & Equipment Model 6.404D 335,846 > 6 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.50 in 38 mm Block (m): R49470, R49650, R59850, R72128, R87558 APPLICATIONS: AGRICULTURAL 4040 4230 6600 7700					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE23160 Consists of: a) TRE23163 b) TAR65502 c) TR44161 d) TR40615 e) TAR65507 f) TH80753	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR45723 Std. TAR46396 .010 TAR46397 .020 TAR46398 .030 Use 6
	1) TRG17897				
	2) TIK17897				
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler	1) Head Bolt Kit
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE520036 3) TRE53422 (5) 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR63938 2) TAR63940 3) TR48291 4) TR71918	1) TR30939 x6 2) TR66452 x12 3) TR46903 x4	1) TR52773 2) TAR55394 3) TAR100386 4) TR26115 5) TR47153	1) TMX365 (1)
					
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR43883 Std. TR45003 .003 TR45004 .015	TR43679 Std. TR43787 .003 TR43788 .015	1) TR43680 Std. 2) TR43681 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		1) Injector, Pencil 2) Seal, Injector	Pump, Oil, Quad Transmission
TR36846 180° F	TAR53567 (2) TRE42211 (3) TAR49771 (4)	Without Impeller	With Impeller	1) TAR50781 2) TR60746 TR48000	TRE20918 For Tractors 4230,4040
		See Chart on Page 81			

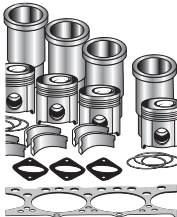
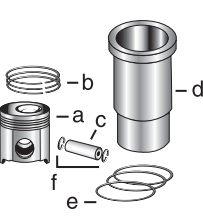
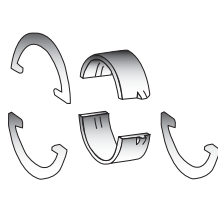
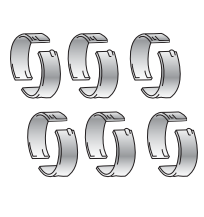
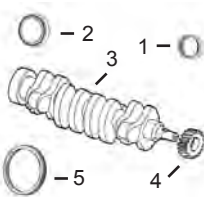
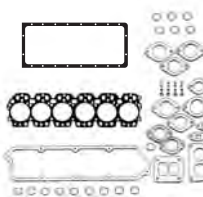
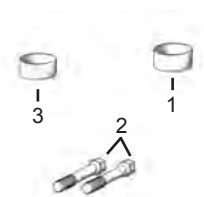
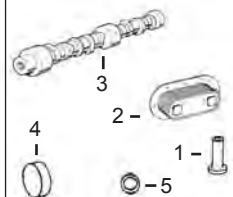
(1) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

(2) ES > 82,801.

(3) ES 82,802-422,365.

(4) ES 422,366 >.

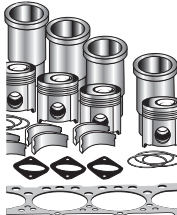
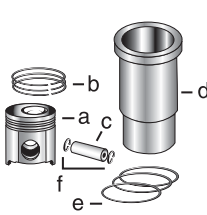
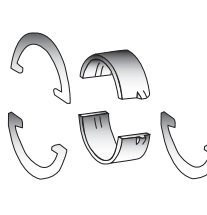
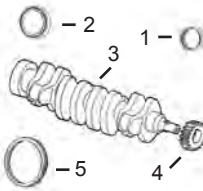
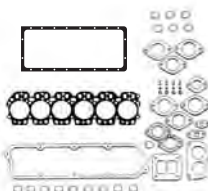
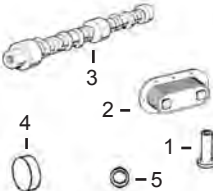
(5) TRE53422 will require front key **TR116311** for the front damper.

400 Series Engine & Equipment Model 6.404T/A > 335,845 6 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.61 in 41 mm Block (m): R43310, R45980, R47020 R47110 APPLICATIONS: AGRICULTURAL 4320 4520 4620 5440 CONSTRUCTION 644 644A 646 646B 690 690A						
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TAR51798 Consists of: a) TAR50624 b) TAR51741 c) TR41425 d) TR40615 e) TAR65507 f) TR54114	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR45723 Std. TAR46396 .010 TAR46397 .020 TAR46398 .030 Use 6	
	1) TRG21340					
	2) TIK21340					
						
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler	1) Head Bolt Kit	
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket				
	1) TAR49025 2) TRE520036 3) TRE53422 (3) 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53094 2) TAR63270 3) TR48291 4) TR71918	1) TR42173 x6 2) TR66452 x12 3) TR46903 x4	1) TR52773 2) TAR55394 For T Engines TAT25038 For A Engines 3) TAR100385 4) TR26115 5) TR47153	1) TMX365 (1)	
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR43883 Std. (2) TR45003 .003 TR45004 .015	TR43679 Std. TR43787 .003 TR43788 .015	1) TR43680 Std. 2) TR43681 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627	
						
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Pump, Oil, Quad Transmission		
		Without Impeller	With Impeller			
TR36846 180 °F	TAR49771	See Chart on Page 81		TRE20918 For Tractors 4320,4520, 4620		

(1) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

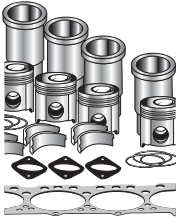
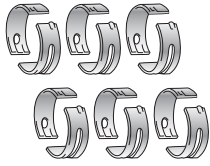
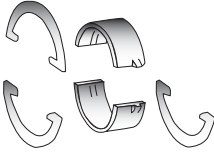
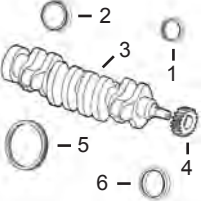
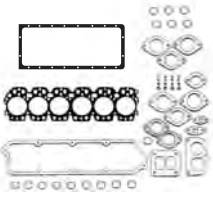
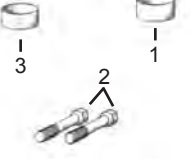
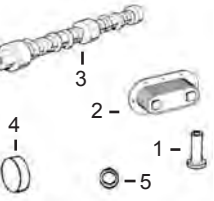
(2) Use TR43914 Std (30° Angle) on ESN > 245,547-335,845.

(3) TRE53422 will require front key TR116311 for the front damper.

400 Series Engine & Equipment Model 6.404T/A 335,846 > 6 Cyl Bore: 4.25 in 108 mm Pin Ø: 1.61 in 41 mm Block (m): R49470, R49650, R59850, R72128, R87558 APPLICATIONS: AGRICULTURAL 4320 5440 4430 6600 4630 7700 CONSTRUCTION 690B 693C 740					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR63272 Consists of: a) TAR54552 b) TAR51741 c) TR41425 d) TR40615 e) TAR65507 f) TR54114	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR45723 Std. TAR46396 .010 TAR46397 .020 TAR46398 .030 Use 6
	1) TRG17892				
	2) TIK17892				
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler	1) Head Bolt Kit
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE520036 3) TRE53422 (2) 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR63269 2) TAR63270 3) TR48291 4) TR71918	1) TR42173 x6 2) TR66452 x12 3) TR46903 x4	1) TR52773 2) TAR55394 For T Engines TAT25038 For A Engines 3) TAR100385 4) TR26115 5) TR47153	1) TMX365 (1)
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Pump, Oil, Quad Transmission	
		Without Impeller	With Impeller		
TAR48675 180° F	Not Used	See Chart on Page 81		TRE20918 For Tractors 4430,4630, 5440	

(1) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

(2) TRE53422 will require front key TR116311 for the front damper.

400 Series Engine & Equipment Model									
6.466D		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing	
6 Cyl		2) Engine I/F Kit		TAR83610 Consists of: a) TAR100442 b) TAR87753 c) TR41425 d) TAR63060 e) TAR98850 f) TR54114		TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6		TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	
Bore: 4.56 in 116 mm Pin Ø: 1.61 in 41 mm		1) TRG18846 2) TIK18846							
Con Rod (m): R66922, R58882, R41423									
APPLICATIONS: AGRICULTURAL 4050 4240 6620		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler	
		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Rear Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket					
		1) TAR49025 2) TRE520036 3) TRE53422 (4) 4) TR26049 (23T) 5) TR28811 (129T) 6) TR63326		1) TAR100638 2) TAR100632 3) TRE47336 4) TR71918		1) TR42173 x6 2) TR66452 x12 3) TR46903 x4  (1)		1) TR52773 2) TAR55394 3) TAR100386 4) TR26115 5) TR47153	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve	
		TR43883 Std. TR45003 .003 TR45004 .015		TR43679 Std. TR43787 .003 TR43788 .015		1) TR43680 Std. 2) TR43681 Std.		1) TT20129 2) TT20077	
									
Thermostat		Fuel Transfer Pump		Water Pump Rep Kit a) Without Impeller b) With Impeller		Water Pump		Pump, Oil, Quad Transmission	
TR48675 180° F		TRE38009		See Chart on Page 81		TRE55985 (m) R71224, (m) R83561 (5) TRE55986 (m) R71224, (m) R83561 (5)		TRE20918 For Tractors 4240,4050	

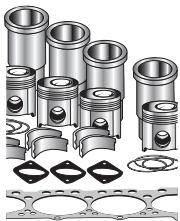
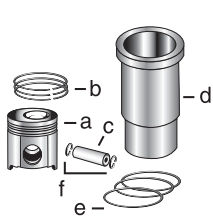
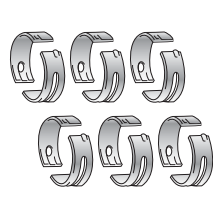
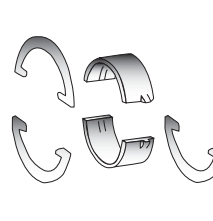
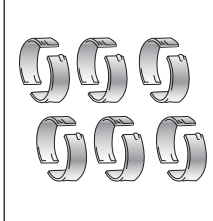
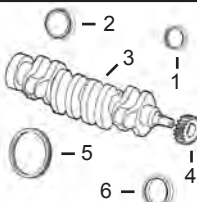
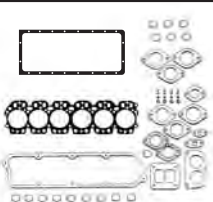
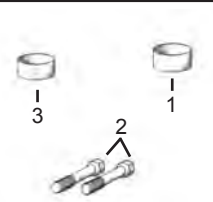
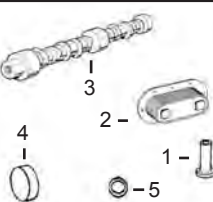
(1) Shape, Conrod Bushing.

(2) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7. * With ESN > 318403.

(3) TMX366 Consists of: TR88043 x11, TR88044 x8, TR88045 x7. ** With ESN 318404 >.

(4) TRE53422 will require front key TR116311 for the front damper.

(5) Must check proper application.

400 Series Engine & Equipment Model 6.466T > 253,372 6.466A > 233,592 6 Cyl Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm Con Rod (m): R57303, R67320 APPLICATIONS: AGRICULTURAL 4440 7720 4640 8430 4840 8440 5720 8450 6620 8820 6622 9940 CONSTRUCTION 644D 646C 740A 762A					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TAR72079 Consists of: a) TAR93629 b) TRE48380 c) TR57771 d) TAR63060 e) TAR98850 f) TE1343FN	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR73277 Std. TAR73279 .010 TAR73280 .020 TAR73281 .030 Use 6
	1) TRG18845				
	2) TIK18845				
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler	1) Head Bolt Kit
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE520036 3) TRE53422 (4) 4) TR26049 (23T) 5) TR28811 (129T) 6) TR63326	1) TAR98845 2) TAR98851 3) TRE47336 4) TR71918	1) TR60724 x6 2) TR66452 x12 3) TR46903 x4  (1)	1) TR52773 2) TAT25038 (3) 3) TAR100385 4) TR26115 5) TR47153	1) TMX365 (2)
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve
	TR50358 Std. TR55055 .003 TR55057 .015	TR50357 Std. TR55056 .003 TR55058 .015	1) TR78702 Std. 2) TR50356 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
Thermostat	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Pump, Oil, Quad Transmission	
TAR48675 180° F	Not Used	See Chart on Page 81	1) TRE55985 (m) R71224, (m) R83561 (5) TRE55986 (m) R71224, (m) R83561 (5) 2) TRE20022 (OEM ESN 067685 >)	TRE20918 For Tractors 4440, 4640, 4840	

(1) Shape, Conrod Bushing.

(2) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7.

(3) Some applications use **TAR55394**.

(4) TRE53422 will require front key **TR116311** for the front damper.

(5) Must check proper application.

400 Series Engine & Equipment Model 6.466T 253,373 > 6.466A 317,859 > 6 Cyl Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm Con Rod (m): R71074 (P/N AR93341) APPLICATIONS: AGRICULTURAL 4250 5730 4440 6602 4450 6620 4640 6622 4650 7720 5460 9940 5720 9950 CONSTRUCTION 644C 790D 690C 850B 762A/B 892D 770A/B										
	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TAR100646 Consists of: a) TAR100616 b) TRE48380 c) TR57771 d) TAR63060 e) TAR98850 f) TE1343FN		TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6		TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1		TAR73277 Std. TAR73279 .010 TAR73280 .020 TAR73281 .030 Use 6	
	1) TRG18847									
	2) TIK18847									
	1) Front Seal		1) O/H Gasket Set		1) Bush, Con Rod		1) Cam Follower		1) Pump, Oil	
	2) Rear Seal				2) Bolt, Con Rod		2) Oil Cooler		2) Repair Kit	
	3) Crankshaft		2) Head Gasket Set		3) Bushing, Cam		3) Camshaft Kit			
	4) Crankshaft, Gear		3) Head Gasket		4) Con Rod		4) Plug, Camshaft			
	5) Ring Gear		4) Oil Pan Gasket				5) O'ring, Oil Cooler			
	6) Rear Gear						6) Head Bolt Kit			
	1) TAR49025 2) TRE520036 3) TRE53422 (5) 4) TR26049 (23T) 5) TR28811 (129T) 6) TR63326		1) TAR98845 2) TAR98851 3) TRE47336 4) TR71918		1) TR74008 x6 2) TR66452 x12 3) TR46903 x4 4) TAR93341 x1 (1)		1) TR52773 2) TAT25038 (4) 3) TAR100385 4) TR26115 5) TR47153 6) TMX365 (2)* TMX366 (3)**		1) TRE60622 2) N/A	
	Valve, Intake		Valve, Exhaust		Insert, Valve		1) Cap, Valve		1) Spring, Valve	
					1) Intake		2) Lock, Valve		2) Rotator, Valve	
					2) Exhaust				3) O'ring, Valve	
	TR50358 Std. TR55055 .003 TR55057 .015		TR50357 Std. TR55056 .003 TR55058 .015		1) TR78702 Std. 2) TR50356 Std.		1) TT20129 2) TT20077		1) TR26125 2) TRE11410 3) TR87627	
	Thermostat									
			Fuel Transfer Pump		Water Pump Rep Kit		Water Pump		Pump, Oil, Quad Transmission	
			a) Without Impeller							
			b) With Impeller							
TAR48675 180° F			See Chart on Page 81							
	Not Used									

(1) Shape, Conrod Bushing.

(2) TMX365 Consists of: TR88042 x6, TR88043 x5, TR88044 x8, TR88045 x7. * With ESN > 317676.

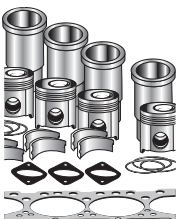
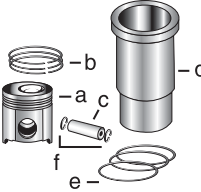
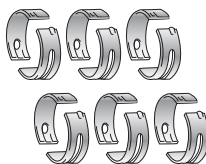
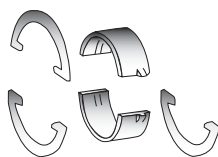
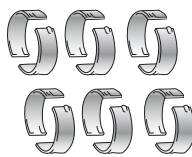
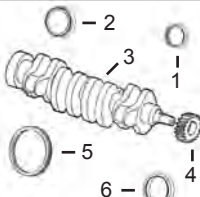
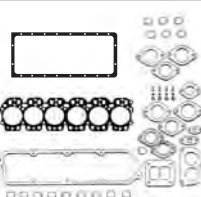
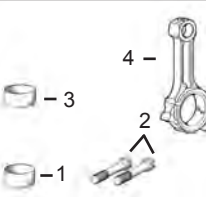
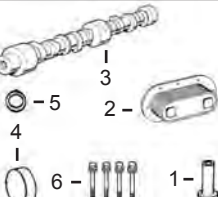
(3) TMX366 Consists of: TR88043 x11, TR88044 x8, TR88045 x7. ** With ESN 317677 >.

(4) Some applications use TAR55394.

(5) TRE53422 will require front key

TR116311 for the front damper.

(6) Must check proper application.

400 Series Engine & Equipment Model						
6.466A 233,593-317,858 6 Cyl Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm Con Rod (m): R71074 (P/N AR93341) <u>APPLICATIONS:</u> AGRICULTURAL 4840 8440 4850 8450 5720 8820 5730 9940 8430 9950 CONSTRUCTION 644C 770A/B 690C 850B 740A 892D 762A/B	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TAR100960 Consists of:	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR73277 Std. TAR73279 .010 TAR73280 .020 TAR73281 .030 Use 6	
	1) TRG20142	a) TAR100673 b) TRE48380 c) TR57771 d) TAR63060 e) TAR98850 f) TE1343FN				
	2) TIK20142					
						
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler 6) Head Bolt, Kit	1) Pump, Oil 2) Repair Kit		
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket	4) Con Rod				
1) TAR49025 2) TRE520036 3) TRE53422 (5) 4) TR26049 (23T) 5) TR28811 (129T) 6) TR63326	1) TAR98845 2) TAR98851 3) TRE47336 4) TR71918	1) TR74008 x6 2) TR66452 x12 3) TR46903 x4 4) TAR93341 x1  (1)	1) TR52773 2) TAT25038 (4) 3) TAR100385 4) TR26115 5) TR47153 6) TMX365 (2)* TMX366 (3)**	1) TRE60622 2) N/A		
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve	
	TR50358 Std. TR55055 .003 TR55057 .015	TR50357 Std. TR55056 .003 TR55058 .015	1) TR78702 Std. 2) TR50356 Std.	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627	
	Thermostat					
		Fuel Transfer Pump		Water Pump		
		Without Impeller		With Impeller		
TAR48675 180° F	Not Used	See Chart on Page 81		1) TRE55985 (m) R71224, (m) R83561 (6) TRE55986 (m) R71224, (m) R83561 (6) 2) TRE20022 (OEM ESN 067685 >)		

400 Series Engine & Equipment Model		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
6076T/A/H Low Ring Piston									
6 Cyl		1) Engine O/H Kit		1) Engine I/F Kit		1) TRE60299		2) TIK60299	
Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm		Consists of: a) TRE57731 (1) b) TRE48380 c) TR57771 d) TAR63060 e) TAR98850 f) TE1343FN		TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6		TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1		TAR73277 Std. TAR73279 .010 TAR73280 .020 TAR73281 .030 Use 6	
Con Rod (m): R71074 (P/N AR93341)									
APPLICATIONS:		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Oil Cooler 2) O'ring, Oil Cooler 3) Plug, Camshaft 4) Head Bolt Kit 5) Tappet 6) Tensioner, Belt	
AGRICULTURAL 4955 8560 4960 8570		3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Rear Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket		4) Con Rod		1) Pump, Oil 2) Repair Kit	
CONSTRUCTION 892E (1)		1) TAR49025 2) TRE520036 3) TRE53201 (2)(5) or TRE53422 (3)(5) 4) TR105488 (4) 5) TR28811 (129T) 6) TR63326		1) TRE35647 2) TRE29859 3) TRE47336 4) TR71918		1) TR74008 x6 2) TR66452 x12 3) TR87561 x4 4) TAR93341 x1		1) TAR55394 (7) 2) TR47153 3) TR82007 4) TMX366 (6) 5) TR110126 (8) 6) TRE57498 (9) TRE68715 (9)	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve 3) Shield, Valve	
TR84618 Std. TR93308 .003 TR93312 .015		TR84619 Std. TR93311 .003 TR93313 .015		1) TR84977 Std. 2) TR84976 Std.		1) TT20129 2) TT20077 3) TR102882		1) TR91822 2) TRE11410	
Thermostat		Fuel Transfer Pump		Water Pump Repair Kit		Water Pump			
TAR48675 180° F		N/A		Without Impeller With Impeller		TRE55985 (m) R71224, (m) R83561 (9) TRE55986 (m) R71224, (m) R83561 (9) TRE68230 (HIGH FLOW)			
				See Chart on Page 81					

(1) Low Ring Piston.

(2) Long snout (3.4in.) C/S (m) R87544, RE53201.

(3) Short snout (3in) C/S (m) RE53203, R63451, R104855.

(4) TRE53422 Use Helicoidal front gear.

(5) Require front key **TR116311** for the front damper.

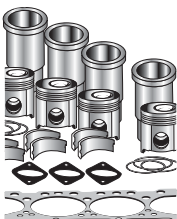
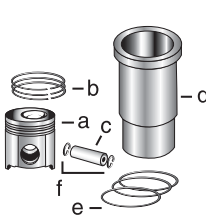
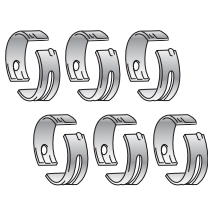
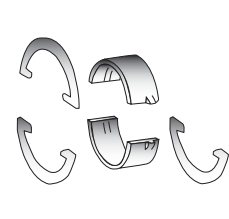
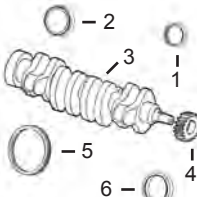
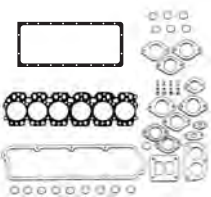
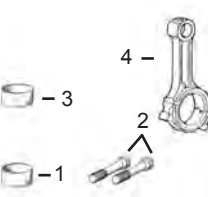
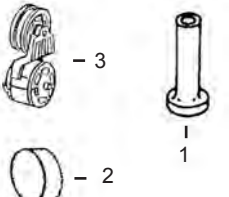
(6) Use with blocks marked R109806 and below.

(7) ESN > 100664 Use: TAT25038. Not for use with ESN 500,000 >.

(8) ESN 192401 >

(9) Check application for proper usage.

(10) For engines with ESN 500 000 and above, and housing is marked (m) R124746 or R504071.

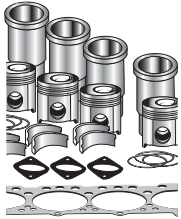
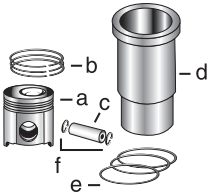
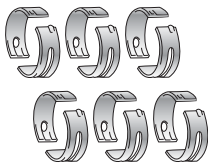
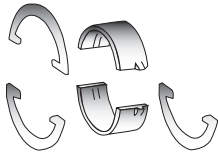
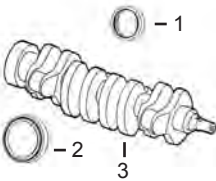
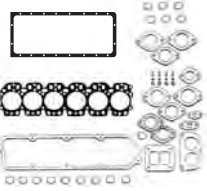
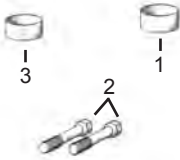
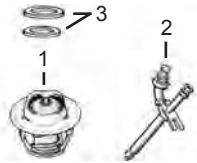
400 Series Engine & Equipment Model 6076T/A/H High Ring Piston 6 Cyl Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm Con Rod (m): R71074 (P/N AR93341) APPLICATIONS: AGRICULTURAL 1185 7700 2066 7800 4055 8100 4255 8200 4455 8300 4555 9500 4560 9600 4755 9960 4760 9965 CONSTRUCTION 644E/ER 772B/BH 644G/GH 792D/LC 740E/G 850C 748E/G 770B/BH					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE60294 Consists of:	TAR74814 Std. TAR74816 .010 TAR74817 .020 TAR74818 .030 Use 6	TAR77748 Std. TAR77750 .010 TAR77751 .020 TAR77752 .030 Use 1 Thrust Washer TAR77747 Std. TAR77753 .007 Use 3, Order Qty 1	TAR73277 Std. TAR73279 .010 TAR73280 .020 TAR73281 .030 Use 6
	1) TRE64212	a) TRE57512 b) TRE57517 c) TR57771 d) TAR63060 e) TAR98850 f) TE1343FN			
	2) TIK64212				
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Plug, Camshaft 3) Tensioner, Belt	1) Pump, Oil 2) Repair Kit
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket	4) Con Rod		
	1) TAR49025 2) TRE520036 3) TRG23551 (1) 4) TR104587 5) TR28811 (129T) 6) TR63326	1) TRE35647 2) TRE29859 3) TRE47336 4) TR71918	1) TR74008 x6 2) TR66452 x12 3) TR87561 x4 4) TAR93341 x1	1) TR110126 2) TR82007 3) TRE57498 (3) TRE68715 (3)	1) TRE60622 TRE507074 (2) 2) N/A
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve 3) Shield, Valve
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Water Pump	
TAR48675 180° F	N/A	Without Impeller	With Impeller	TRE55985 (m) R71224, (m) R83561 (3) TRE55986 (m) R71224, (m) R83561 (3) TRE68230 (HIGH FLOW)	
		See Chart on Page 81			

(1) C/S (m) RE53199, with straight front gear TR104587. Helical gear should be discarded. TRG23551 will require front key TR116311 for the front damper.

(2) For engines with ESN 500,000 and above, and housing is marked (m) R124746 or R504071.

(3) Check application for proper usage.

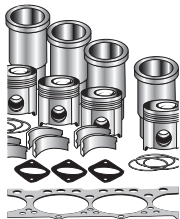
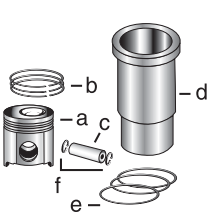
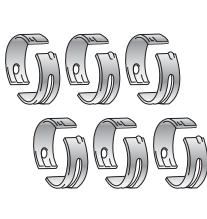
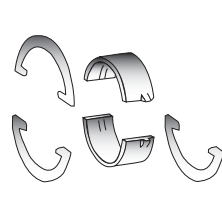
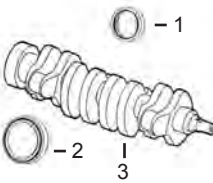
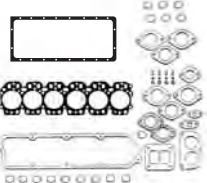
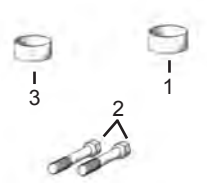
500 Series Engine & Equipment Model 6.531D (Do Not Use this Kit for Early Engines with Block Casting No: R35130.) 6 Cyl Bore: 4.75 in 121 mm Pin Ø: 1.75 in 44.4 mm Con Rod (m): R35048, R58881, R40238 R66927, R53286 Block (m): R40270, R42370, R45300 R47510 APPLICATIONS: AGRICULTURAL 5020 6030 CONSTRUCTION 700 760 700A 760A					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TPLK549 Consists of:	TAR101266 Std. TAR104568 .010 TAR104569 .020 TAR104570 .030 Use 6	TAR101267 Std. TAR104564 .010 TAR104565 .020 TAR104566 .030 Use 1 Thrust Washer TAR89622 Std. TAR89971 .007 Use 3, Order Qty 1	TAR53020 Std. TAR57208 .010 TAR57209 .020 TAR57210 .030 Use 6
	1) TOK6549	a) TRE16548 b) TAR41295 c) TR35053 d) TR42366 e) TAR55951 f) TD2824R			
	2) TIK6549				
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	Thermostat	1) Injector, Pencil 2) Seal
	3) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE13310 3) TAR92533	1) TAR53614 2) TAR53613 3) TR78513 4) TR71919	1) TR36328 x6 2) TR66453 x12 3) TR46903 x4	TR36846 180°F	1) TAR50782 2) TR60746 TR48000
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	Spring, Valve
	TR42182	TR45823	1) TR41868 2) TR41869	1) TR53192 2) TR35431 3) TR40366	N/A

500 Series Engine & Equipment Model											
6.531T		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
6 Cyl		2) Engine I/F Kit		TPLK512 Consists of:		TAR101266 Std. TAR104568 .010 TAR104569 .020 TAR104570 .030 Use 6		TAR101267 Std. TAR104564 .010 TAR104565 .020 TAR104566 .030 Use 1 Thrust Washer TAR89622 Std. TAR89971 .007 Use 3, Order Qty 1		TAR53020 Std. TAR57208 .010 TAR57209 .020 TAR57210 .030 Use 6	
Bore: 4.75 in 121 mm Pin Ø: 1.875 in 47.6 mm		1) TOK6512		a) TAR67512 b) TAR53226 c) TR49418 d) TR48350 e) TR49423 f) TE1343FN							
Con Rod (m): R48315, R53287, R58883, R66926		2) TIK6512									
Block (m): R48260, R72129, R80401											
APPLICATIONS:		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Pump, Oil		1) Thermostat 2) Injector, Pencil 3) Seal	
CONSTRUCTION		3) Crankshaft		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket							
644B 646B 770 770A 772A		1) TAR49025 2) TRE13310 3) TAR92533		1) TRE17050 2) TAR67510 3) TR78513 4) TR71919		1) TR76783 x6 2) TR66453 x12 3) TR46903 x4		TRE60622 (1)		1) TAR48675 180°F 2) TAR50782 3) TR60746 TR48000	
		Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Guide, Valve 2) Lock, Valve 3) Cap, Valve		Spring, Valve 1) Outer 2) Inner 3) Rotator, Valve	
		TR90602 Std.		TR90601 Std.		1) TR41868 2) TR41869		1) TR53192 2) TR35431 3) TR40366		1) TR49571 2) TR49569 3) TR81086	

(1) Crank Driven Pump.

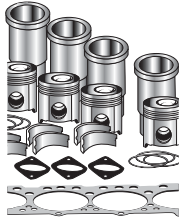
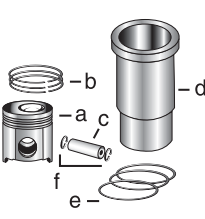
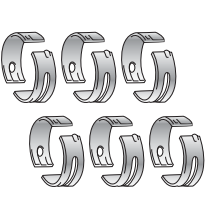
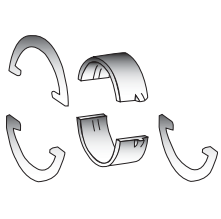
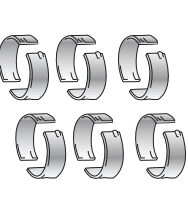
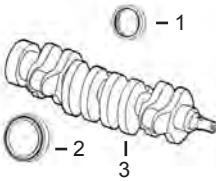
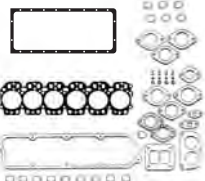
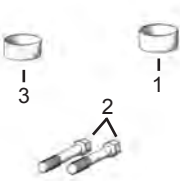
500 Series Engine & Equipment Model						
6.531A						
6 Cyl						
Bore: 4.75 in 121 mm Pin Ø: 1.875 in 47.6 mm						
Con Rod (m): R48315, R53287, R58883, R66926						
Block (m): R48260, R72129, R80401						
APPLICATIONS: AGRICULTURAL 6030 7520						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TPLK225 Consists of: a) TAR53227 b) TAR53226 c) TR49418 d) TR48350 e) TR49423 f) TE1343FN	TAR101266 Std. TAR104568 .010 TAR104569 .020 TAR104570 .030 Use 6	TAR101267 Std. TAR104564 .010 TAR104565 .020 TAR104566 .030 Use 1 Thrust Washer TAR89622 Std. TAR89971 .007 Use 3, Order Qty 1	TAR53020 Std. TAR57208 .010 TAR57209 .020 TAR57210 .030 Use 6
		1) TOK6225 2) TIK6225				
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	Pump, Oil	Thermostat
		3) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
		1) TAR49025 2) TRE13310 3) TAR92533	1) TRE17046 2) TAR56154 3) TR78513 4) TR71919	1) TR76783 x6 2) TR66453 x12 3) TR46903 x4	TRE60622 (1)	TAR48675 180° F
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	Spring, Valve 1) Outer 2) Inner 3) Rotator, Valve
		TR90602 Std.	TR90601 Std.	N/A	1) TR53192 2) TR35431 3) TR40366	1) TR49571 2) TR49569 3) TR81086

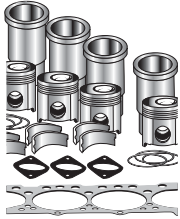
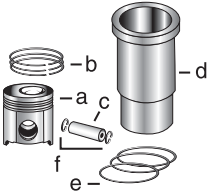
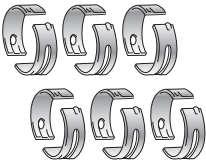
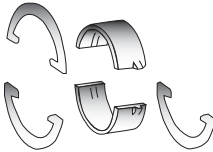
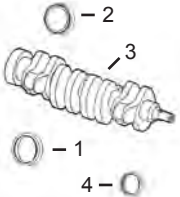
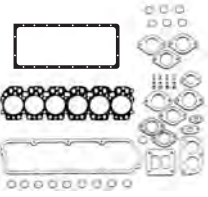
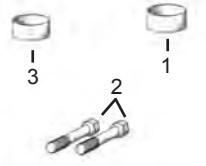
(1) Crank Driven Pump.

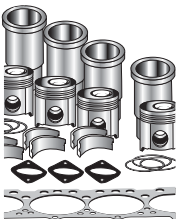
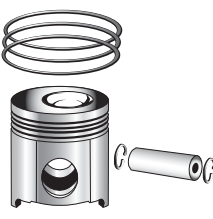
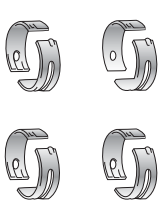
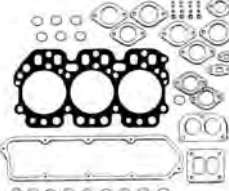
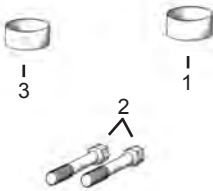
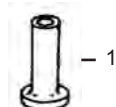
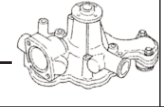
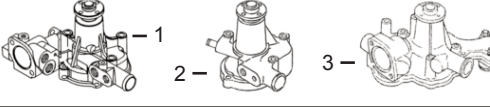
500 Series Engine & Equipment Model						
6.619A/T > 033814						
6 Cyl Early Bore: 5.125 in 130 mm Pin Ø: 2.00 in 50.8 mm Con Rod (m): R66925, R57484 Block (m): R57424 <u>APPLICATIONS:</u> AGRICULTURAL 8630		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TAR84089 Consists of:	TAR101268 Std. TAR104122 .010 TAR104123 .020 TAR104124 .030 Use 6	TAR101269 Std. TAR104126 .010 TAR104127 .020 TAR104128 .030 Use 1 Thrust Washer TAR89622 Std. TAR89971 .007 Use 3, Order Qty 1	TAR101271 Std. TAR104130 .010 TAR104131 .020 TAR104132 .030 Use 6
		1) TOK84089	a) TAR69038 b) TAR82355 c) TR64451 d) TR65629 e) TAR72351 f) TN51168			
		2) TIK84089				
						
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	Pump, Oil	Thermostat
		3) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
		1) TAR49025 2) TRE13310 3) TAR92533	1) TRE37416 2) TRE37417 3) TRE34009 4) TR71919	1) TR60197 x6 2) TR66453 x12 3) TR46903 x4	TRE60622 (1)	TAR48675 180° F
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	Spring, Valve 1) Outer 2) Inner 3) Rotator, Valve
		TR75690 Std.	TR63982 Std.	1) TR59894 Std. 2) TR60537 Std.	1) TR53192 2) TR35431 3) TR40366	1) TR49571 2) TR49569 3) TR81086

(1) Crank Driven Pump.

500 Series Engine & Equipment Model 6.619A/T 033815 - 049059 	
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500 Series Engine & Equipment Model 6.619 A/T 049060 > 6 Cyl Late Bore: 5.125 in 130 mm Pin Ø: 2.00 in 50.8 mm Con Rod (m): R63959 <u>APPLICATIONS:</u> AGRICULTURAL 8630 8640 8650 CONSTRUCTION 744E 862 762 890 850 890A 855 992D/E 860B										
	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
	2) Engine I/F Kit		TRE40476 Consists of:		TAR101268 Std. TAR104122 .010 TAR104123 .020 TAR104124 .030		TAR101269 Std. TAR104126 .010 TAR104127 .020 TAR104128 .030		TAR101271 Std. TAR104130 .010 TAR104131 .020 TAR104132 .030	
	1) TOK40476		a) TRE20275 b) TAR82355 c) TR64451 d) TR77640 e) TAR72351 f) TN51168		Use 6		Use 1 Thrust Washer TAR89622 Std. TAR89971 .007		Use 6	
	2) TIK40476						Use 3, Order Qty 1			
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Pump, Oil		Thermostat	
	3) Crankshaft		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket							
	1) TAR49025 2) TRE13310 3) TAR92533		1) TRE37416 2) TRE37417 3) TRE34009 4) TR71919		1) TR69045 x6 2) TR66453 x12 3) TR46903 x4		TRE60622 (1)		TAR48675 180° F	
			Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	
	TR75690 Std.		TR63982 Std.		1) TR59894 Std. 2) TR60537 Std.		1) TR53192 2) TR35431 3) TR40366		Spring, Valve 1) Outer 2) Inner 3) Rotator, Valve 1) TR49571 2) TR49569 3) TR81086	

500 Series Engine & Equipment Model 6.101A/T > 499,999 6 Cyl Bore: 5.125 in 130 mm Pin Ø: 2.00 in 50.8 mm Block (m): R75934, R87552, R88217 R98554 APPLICATIONS: AGRICULTURAL 8760 8870	    				
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE40476 Consists of:	TAR101268 Std. TAR104122 .010 TAR104123 .020 TAR104124 .030 Use 6	TAR101269 Std. TAR104126 .010 TAR104127 .020 TAR104128 .030 Use 1 Thrust Washer TAR89622 Std. TAR89971 .007 Use 3, Order Qty 1	TAR101271 Std. TAR104130 .010 TAR104131 .020 TAR104132 .030 Use 6
	1) TOK40476L	a) TRE20275 b) TAR82355 c) TR64451 d) TR77640 e) TAR72351 f) TN51168			
	2) TIK40476L				
	    				
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	Thermostat	Pump, Oil
	3) Crankshaft 4) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE13310 3) TAR92533 4) TR63326	1) TRE37416 2) TRE37417 3) TRE34009 4) TR71919	1) TR69045 x6 2) TR66453 x12 3) TR87561 x4	TAR48675 180° F	TRE60622
					
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Shield, Valve	1) Spring, Valve 2) Rotator, Valve 3) Cap, Valve
	TR101304	TR101305	N/A	1) TT20077 2) TR102882 x6	1) TR91822 2) TRE11410 3) TT20129

John Deere®/Yanmar® Engine & Equipment Model 3TNE84 Bore: 3.30 in 84.00 mm Stroke: 3.54 in 90.00 mm APPLICATIONS: 790 Utility Tractor 3225B Mower 3235 Mower 3235A Mower 3235B Mower 4300 Utility Tractor 4310 Utility Tractor 4475 Skid Steer OEM Applications 3015	    				
	Engine O/H Kit	Piston with Rings Pin & Retainers	Main Bearing	Con Rod Bearing	Thrust Washers
	TOK3015D	TAM878606 Std.	TAM875371 Std.	TMIA880563 Std.	TMIA880555
	TOK3015D/10	TAM878598 0.010	TMIA880550 .010	TMIA880568 .010	
		See note (1) below			
		Use 3	Use 4	Use 3	Set of 4
	 1) Front Seal 2) Rear Seal	 1) O/H Gasket Set	 1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	 1) Tappet	
		2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket			
	1) TM800988 2) TM805278	1) TMGS3015 2) TM806440 3) TM64850 4) TM801741	1) TM801256 x3 2) TCH15483 x6 3) TMIU800573 x1	1) TM801046 x6	
					
	Valve, Intake TM801220 x3	Valve, Exhaust TMIU800494 x3	Guide, Valve 1) Intake 2) Exhaust 1) TM801227 x3 2) TM801228 x3	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh 1) TAM878862 x12 2) TCH10450 x3 3) TT110650 x3	Spring, Valve TM801222 x6
 Thermostat TM811034	 Oil Pump TAM878778	 Lift Pump TAM882462	 Water Pump 1) TAM882090 (2) 2) TAM880905 (2) 3) TAM881943 (2)	 Repair Sleeve 84RS	

(1) Rings only to be used with **MAXIFORCE PISTONS (ALFIN)**.

(2) Check your application for proper usage.

John Deere®/Yanmar®

Engine & Equipment
Model

4TNE84

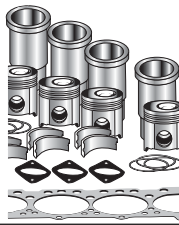
Bore: 3.30 in
84.00 mm

Stroke: 3.54 in
90.00 mm

APPLICATIONS:

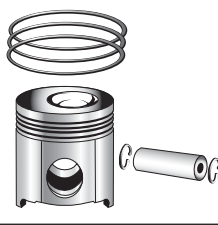
990 Utility Tractor
110 Loader Backhoe
4500 Utility Tractor
4510 Utility Tractor
4600 Utility Tractor
4610 Utility Tractor
6675 Skid Steer

OEM Applications
4020



Engine O/H
Kit

TOK4020D
TOK4020D/10

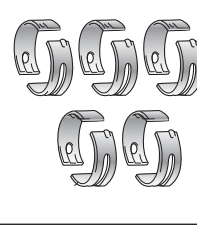


Piston with Rings
Pin & Retainers

TAM878606 Std.
TAM878598 0.010

See note (1) below

Use 4



Main Bearing

TAM875371 Std.
TMIA880550 .010

Use 5



Con Rod Bearing

TMIA880563 Std.
TMIA880568 .010

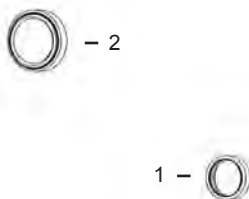
Use 4



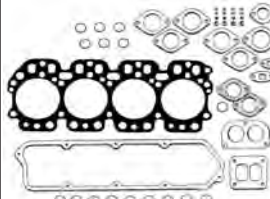
Thrust Washers

TMIA880555

Set of 4



1) Front Seal
2) Rear Seal

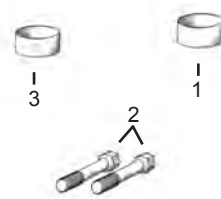


1) O/H Gasket Set

2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

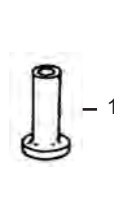
1) TM800988
2) TM805278

1) TMGS4020
2) TM806505
3) TM64850
4) TM801230



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TM801256 **x4**
2) TCH15483 **x8**
3) TMIU800573 **x1**



1) Tappet

1) TM801046 **x8**



Valve, Intake

TM801220 **x4**

Valve, Exhaust

TMIU800494 **x4**

Guide, Valve
1) Intake
2) Exhaust

1) TM801227 **x4**
2) TM801228 **x4**

1) Lock, Valve
2) Stem Seal Int
3) Stem, Seal Exh

1) TAM878862 **x16**
2) TCH10450 **x4**
3) TT110650 **x4**

Spring, Valve

TM801222 **x8**



Thermostat

TM811034



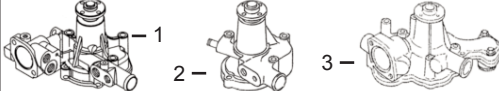
Oil Pump

TAM878891



Lift Pump

TAM882462



Water Pump

1) TAM882090 **(2)**
2) TAM880905 **(2)**
3) TAM881943 **(2)**

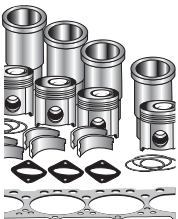
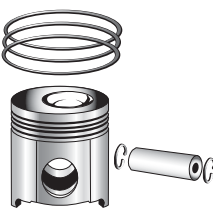
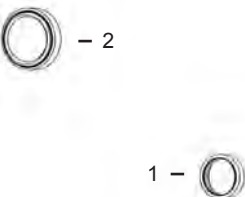
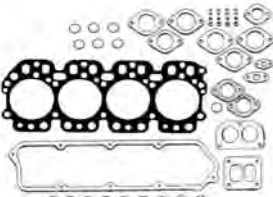
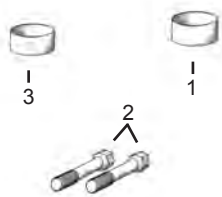
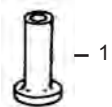
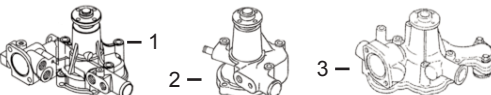


Repair Sleeve

84RS

(1) Rings only to be used with **MAXIFORCE PISTONS (ALFIN)**.

(2) Check your application for proper usage.

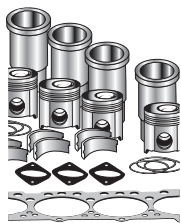
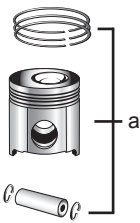
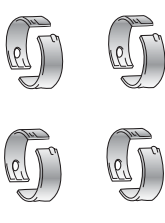
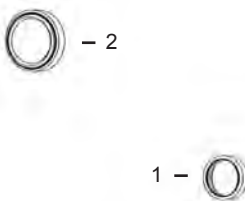
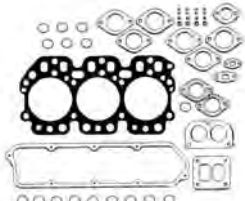
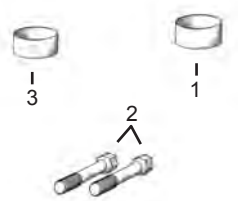
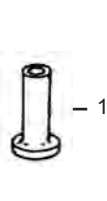
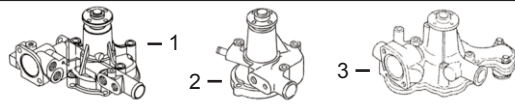
John Deere®/Yanmar® Engine & Equipment Model 4TNE84T						
		Engine O/H Kit	Piston with Rings Pin & Retainers	Main Bearing	Con Rod Bearing	Thrust Washers
Bore: 3.30 in 84.00 mm Stroke: 3.54 in 90.00 mm APPLICATIONS: 1600 Turbo Mowers <i>OEM Applications</i> 4020T		TOK4020T	TAM878575 Std.	TAM875371 Std.	TMIA880563 Std.	TMIA880555
		TOK4020T/10	TAM878598 0.010	TMIA880550 .010	TMIA880568 .010	
			See note (1) below			
			Use 4	Use 5	Use 4	Set of 4
						
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet	
			2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket			
		1) TM800988 2) TM805278	1) TMGS4020 2) TM806505 3) TM64850 4) TM801230	1) TM801256 x4 2) TCH15483 x8 3) TMIU800573 x1	1) TM801046 x8	
		Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
		TM801220 x4	TT110649 x4	1) TM801227 x4 2) TM801228 x4	1) TAM878862 x16 2) TCH10450 x4 3) TT110650 x4	TM801222 x8
		Thermostat		Oil Pump		Lift Pump
						Water Pump
						
TM811034		TAM878891 (2) TRG60604 (3)	TAM882462	1) TAM882090 (4) 2) TAM880905 (4) 3) TAM881943 (4)	84RS	

(1) Rings only to be used with **MAXIFORCE PISTONS (ALFIN)**.

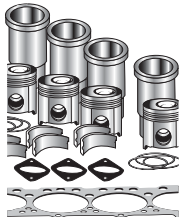
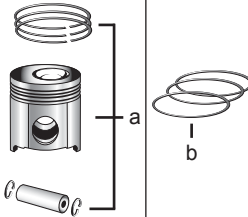
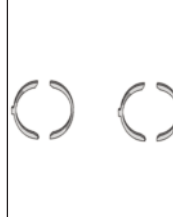
(2) Used on Code 006, 106.

(3) Used on Code 001, 005, 101, 105.

(4) Check your application for proper usage.

John Deere®/Yanmar® Engine & Equipment Model 3TNE88 Bore: 3.46 in 88.00 mm											
		Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing		Con Rod Bearing		Thrust Washers			
TOK3TNE88 TOK3TNE88/10		a) TAM879953 Std. TAM878641 0.010 Use 3 b) TAM879901 Std. TAM878642 0.010		TMIA880554 Std. TMIA880550 .010		TMIA880563 Std. TMIA880568 .010		TMIA880555			
				Use 4		Use 3		Set of 4			
APPLICATIONS: 1565 Mower 4400 Utility Tractor 4410 Utility Tractor 5575 Skid Steer											
		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet			
				2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket							
		1) TM800988 2) TM805278		1) TMGS3TNE88 2) TM806811 3) TM64850 4) TM801741		1) TM801256 x3 2) TCH15483 x6 3) TMIU800573 x1		1) TM801046 x6			
		Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve					
		TM801220 x3	TMIU800494 x3	1) TM801227 x3 2) TM801228 x3	1) TCH10450 x3 2) TT110650 x3	TM801222 x6					
											
Thermostat		Oil Pump		Lift Pump		Water Pump					
TM811034		TAM878778		TAM882462		1) TAM882090 (1) 2) TAM880905 (1) 3) TAM881943 (1)					

(1) Check your application for proper usage.

John Deere®/Yanmar®											
Engine & Equipment Model 4TNE88 											

(1) Check your application for proper usage.

John Deere®/Yanmar®

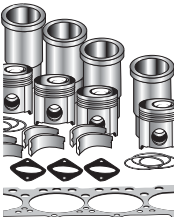
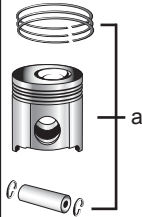
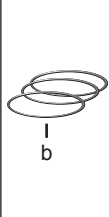
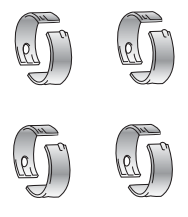
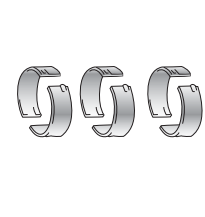
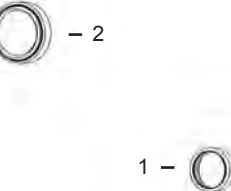
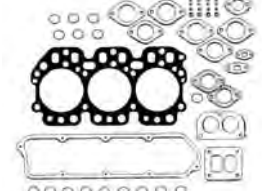
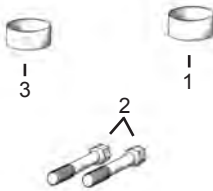
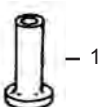
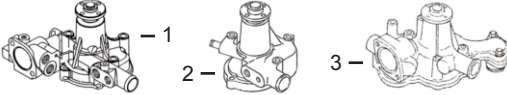
**Engine & Equipment
Model**

3TNV84/T

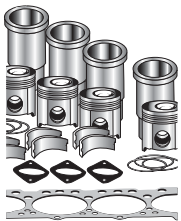
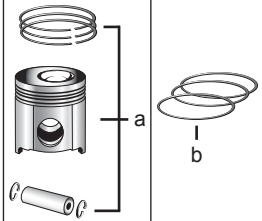
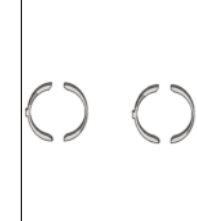
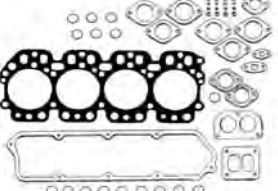
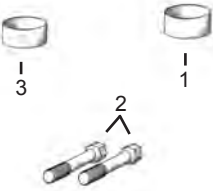
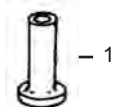
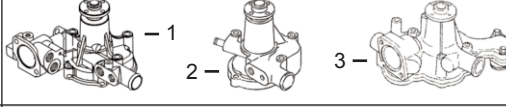
Bore: 3.30 in
84.00 mm

APPLICATIONS:

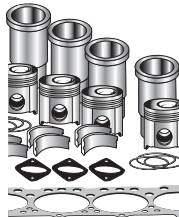
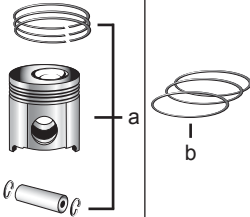
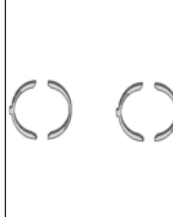
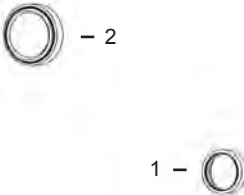
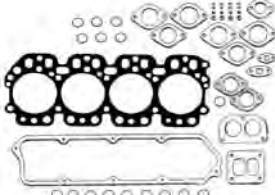
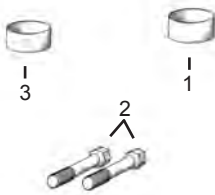
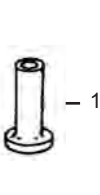
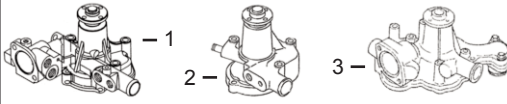
3036E Utility Tractor
3038E Utility Tractor
3120 Utility Tractor
3203 Utility Tractor
3225C Fairway Mowers
3235C Fairway Mowers
3245C Rotary Deck Mower
3520 Utility Tractor
3720 Utility Tractor
4105 Utility Tractor
7400 Mower
7500 Mower
7700 Mower
8000 Mower
8400 Mower
8500 Mower
8700 Mower
8800 Mower

					
Engine O/H Kit	a) Piston Kit		Main Bearing	Con Rod Bearing	Thrust Washers
	b) Ring Set				
TOK3TNV84	a) TAM881978 Std.		TMIA880554 Std.	TMIA880563 Std.	TMIA880555
TOK3TNV84/10	TAM881939 0.010		TMIA880550 .010	TMIA880568 .010	
	Use 3				
	b) TAM881938 Std.		Use 4	Use 3	Set of 4
	TAM881940 0.010				
					
1) Front Seal	1) O/H Gasket Set	1) Bush, Con Rod	1) Tappet		
2) Rear Seal		2) Bolt, Con Rod			
		3) Bushing, Cam			
	2) Head Gasket				
	3) Liquid Gasket				
	4) Rocker Cover Gasket				
1) TM800988	1) TMGS3015	1) TM801256 x3	1) TM801046 x6		
2) TM805278	2) TM806440	2) TCH15483 x6			
	3) TM64850	3) TMIU800573 x1			
	4) TM811429				
Valve, Intake	Valve, Exhaust	Guide, Valve	1) Stem Seal Int	Spring, Valve	
		1) Intake	2) Stem, Seal Exh		
		2) Exhaust			
TM811557 x3	TMUI800494 x3	1) TM801227 x3	1) TCH10450 x3	TM801222 x6	
or		2) TM801228 x3	2) TT110650 x3		
TMUI800446 x3					
					
Oil Pump	Electric Fuel Pump	Water Pump			
TAM878778	TAM876266	1) TAM882090 (1)	84RS		
TAM878891		2) TAM880905 (1)			
		3) TAM881943 (1)			

(1) Check your application for proper usage.

John Deere®/Yanmar® Engine & Equipment Model 4TNV84 Bore: 3.30 in 84.00 mm APPLICATIONS: 990 Utility Tractor	    				
	Engine O/H Kit	a) Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers
		b) Ring Set			
	TOK4TNV84 TOK4TNV84/10	a) TAM881978 Std. TAM881939 0.010	TMIA880554 Std. TMIA880550 .010	TMIA880563 Std. TMIA880568 .010	TMIA880555
		Use 4			
		b) TAM882593 Std.	Use 5	Use 4	Set of 4
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet	
		2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket			
	1) TM800988 2) TM805278	1) TMGS4020 2) TM806440 3) TM64850 4) TM811429	1) TM801256 x4 2) TCH15483 x8 3) TMIU800573 x1	1) TM801046 x8	
		Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh
	TM811557 x4 or TMIU800446 x4	TMIU800494 x4	1) TM801227 x4 2) TM801228 x4	1) TCH10450 x4 2) TT110650 x4	TM801222 x8
					
Thermostat	Oil Pump	Electric Fuel Pump	Water Pump		
TM811034	TAM878778 TAM878891	TAM876266	1) TAM882090 (1) 2) TAM880905 (1) 3) TAM881943 (1)		84RS

(1) Check your application for proper usage.

John Deere®/Yanmar® Engine & Equipment Model 4TNV84T											
Engine O/H Kit		a) Piston Kit		Main Bearing		Con Rod Bearing		Thrust Washers			
		b) Ring Set									
		TOK4TNV84T		a) TMIA880354 Std.		TMIA880554 Std.		TMIA880563 Std.		TMIA880555	
		TOK4TNV84T/10		TMIA880355 0.010		TMIA880550 .010		TMIA880568 .010			
		Use 4		Use 5		Use 4		Set of 4			
		b) TAM881938 Std.									
		TAM881940 0.010									
APPLICATIONS: 1600 Series II Mower											
		1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet			
				2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket							
		1) TM800988 2) TM805278		1) TMGS4020 2) TM806440 3) TM64850 4) TM811429		1) TM801256 x4 2) TCH15483 x8 3) TMIU800573 x1		1) TM801046 x8			
		Valve, Intake		Valve, Exhaust		Guide, Valve 1) Intake 2) Exhaust		1) Stem Seal Int 2) Stem, Seal Exh		Spring, Valve	
		TM811557 x4 or TMIU800446 x4		TMIU800494 x4		1) TM801227 x4 2) TM801228 x4		1) TCH10450 x4 2) TT110650 x4		TM801222 x8	
											
Thermostat		Oil Pump		Electric Fuel Pump		Water Pump					
TM811034		TAM878778 TAM878891		TAM876266		1) TAM882090 (1) 2) TAM880905 (1) 3) TAM881943 (1)				84RS	

(1) Check your application for proper usage.

John Deere®/Yanmar® Engine & Equipment Model 3TNV88 <	
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(1) Check your application for proper usage.

John Deere[®]/Yanmar[®]

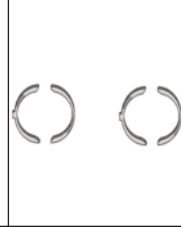
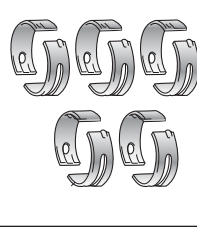
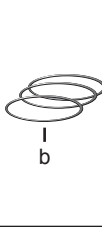
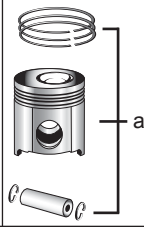
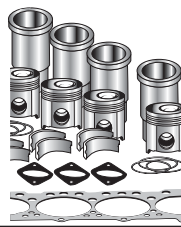
Engine & Equipment
Model

4TNV88

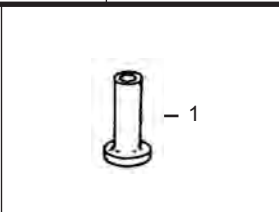
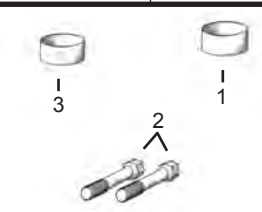
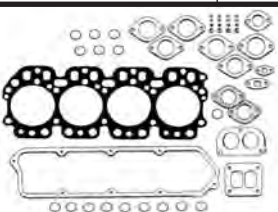
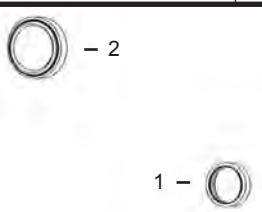
Bore: 3.46 in
88.00 mm

APPLICATIONS:

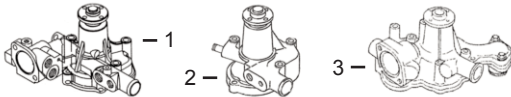
50D Compact Excavator
110 Loader Backhoe
1505 Prof Lawnmower
1515 Prof Lawnmower
1905 Reel Mower
2720 Utility Tractors
4405 Utility Tractors



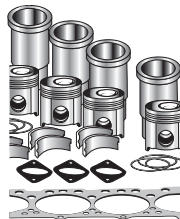
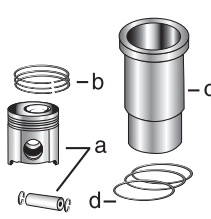
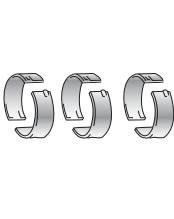
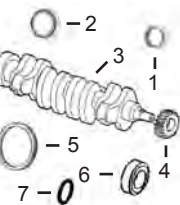
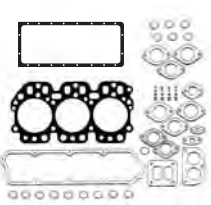
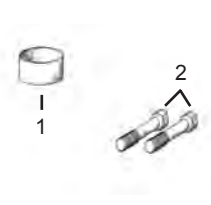
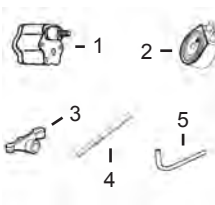
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK4TNV88	a) TAM881814 Std.	TMIA880554 Std.	TMIA880563 Std.	TMIA880555
TOK4TNV88/10	TAM881811 0.010	TMIA880550 .010	TMIA880568 .010	
	Use 4			
	b) TAM881812 Std. TAM881810 0.010	Use 5	Use 4	Set of 4



1) Front Seal 2) Rear Seal	1) O/H Gasket Set 2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet
1) TM800988 2) TM805278	1) TMGS4TNE88 2) TM806518 3) TM64850 4) TM811123	1) TM801256 x4 2) TCH15483 x8 3) TMIU800573 x1	1) TM801046 x8

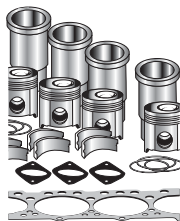
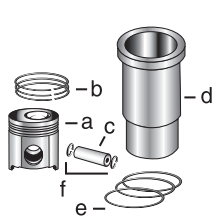
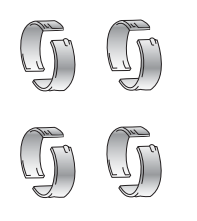
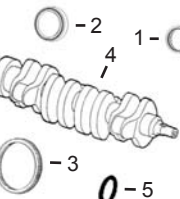
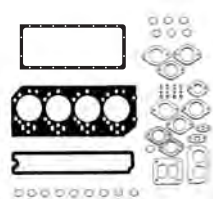
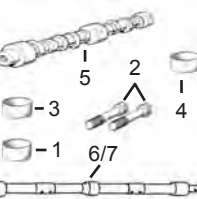
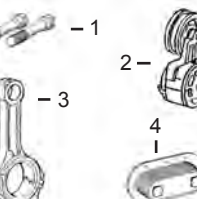
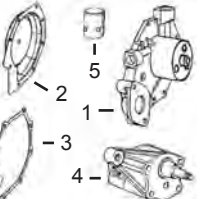
	Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
	TM811557 x4 or TMIU800446 x4	TMIU800494 x4	1) TM801227 x4 2) TM801228 x4	1) TCH10450 x4 2) TT110650 x4	TM801222 x8
					
Thermostat	Oil Pump	Electric Fuel Pump	Water Pump		
TM811034	TAM878778 TAM878891	TAM876266	1) TAM882090 (1) 2) TAM880905 (1) 3) TAM881943 (1)		

(1) Check your application for proper usage.

PowerTech Engine & Equipment Model 3029 2.9D 252,768 > CODE 4809 3 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.3 in 32 mm Piston (m): RE61467, RE500210 Con Rod (m): R121092, R501072 APPLICATIONS: AGRICULTURAL 3100 5210 5105 5220 5200 5300 5205 5310/N OEM 2.9L CONSTRUCTION 240 Skid Steer					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE66968 Consists of:	TRE27352 Std.	TAT21139 Std.	TRE27348 Std.
	1) TOK2.9D9	a) TRE61467 (3) b) TRE66271 c) TR116281 d) TAR65507	TRE27353 .010 TRE27360 .020 TRE27368 .030	TAT21132 .010 TAT21134 .020 TAT21136 .030	TRE27349 .010 TRE27358 .020 TRE27364 .030
	2) TIK2.9D9				
			Use 3	Use 1	Use 3
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm (Intake/Exhaust) 4) Rock. Arm Shaft 5) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam Follower 6) Cam Gear
	3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk			
	1) TAR67942 2) TRE44574 3) TRE521348 (4) 4) TT20094 (2) 5) TR28811 (129T) or TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR106796	1) TR504300 x3 2) TR80033 x6 TR501124 x6	1) TRE55343 2) TRE61767 3) TRE31973 4) TR54985 5) TR85363 x14 (2)	1) TAT24252 (1) 2) TT26321 3) TAT18009 (1) 4) TT20034 5) TT20073 6) TT20070 (1)
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 Std. TR97490 .015	TR90692 Std. TR97492 .015	1) TR106831 2) TR106829	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005
					
Thermostat	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector Kit
TRE64354 180 ° F	TRE38009	See Chart on Page 81	TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164	TRE36936	TRE65201

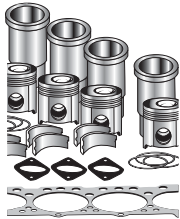
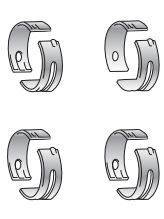
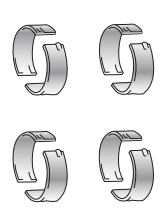
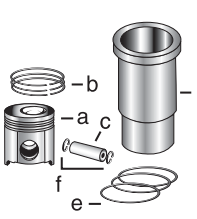
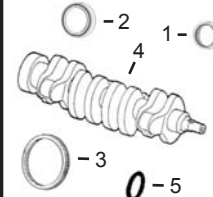
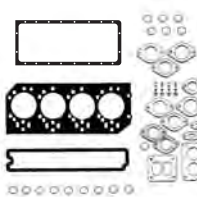
- (1) Helicoidal Gears.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw **TR85363**.
(3) Piston includes Pin and Retainers.
(4) Kit contains TT20094 helical gear to convert to a TRE50979 Crankshaft.

PowerTech Engine & Equipment Model											
3029 2.9T 258847 > CODE 4808 3 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm Piston (m): RE61270 Con Rod (m): R105011, R501073 APPLICATIONS: AGRICULTURAL 5400 261581 > 5400N OEM 2.9L CONSTRUCTION 8875 Skid Steer											
		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing		Thrust Bearing		Con Rod Bearing	
		2) Engine I/F Kit		TRE500673		TRE27352 Std.		TAT21139 Std.		TRE27348 Std.	
		1) TOK2.9T2		Consists of:		TRE27353 .010		TAT21132 .010		TRE27349 .010	
		2) TIK2.9T2		a) TRE500211		TRE27360 .020		TAT21134 .020		TRE27358 .020	
				b) TRE66271		TRE27368 .030		TAT21136 .030		TRE27364 .030	
				c) TMX3915							
				d) TR116281							
				e) TAR65507							
				f) TR54114		Use 3		Use 1		Use 3	
1) Front Seal		1) O/H Gasket Set		1) Bush, Con Rod		1) Pump, Oil		1) Lower Gear			
2) Rear Seal				2) Bolt, Con Rod		2) Oil Cooler		2) Lower Bushing			
3) Crankshaft		2) Head Gasket Set				3) Rocker Arm		3) Upper Gear			
4) Crankshaft, Gear		3) Head Gasket				(Intake/Exhaust)		4) Upper Bushing			
5) Ring Gear		4) Oil Pan Gasket				4) Rocker Arm Shaft		5) Cam Follower			
6) Sleeve, Front		5) Rocker Cover Gsk				5) Cyl Hd Cap Screw		6) Cam Gear			
7) Packing, Sleeve											
1) TAR67942		1) TRE501578		1) TR57451 x3 (3)		1) TRE55343		1) TAT24252 (1)			
2) TRE44574		2) TRE38850		2) TR80033 x6		2) TRE61767		2) TT26321			
3) TRE521348 (4)		3) TR97356		TR501124 x6		3) TRE31973		3) TAT18009 (1)			
4) TT20094 (1)		4) TR97341				4) TR54985		4) TT20034			
5) TR28811 (129T)		5) TR106796				5) TR85363 x14 (2)		5) TT20073			
or								6) TT20070 (1)			
TR114282 (142T)											
6) TR81989											
7) TH35244											
		Valve, Intake		Valve, Exhaust		Insert, Valve		1) Seal, Valve			
						1) Intake		2) Lock, Valve			
						2) Exhaust		1) Spring, Valve			
TR98062		Std.		TR90692		Std.		2) Rotator, Valve			
TR97490		.015		TR97492		.015					
						1) TR106831 Std.		1) TR26125			
						2) TR106829 Std.		2) TRE60005			
Thermostat		Fuel Transfer Pump		Water Pump Rep Kit		Water Pump		Injector, Pencil		Seal, Injector Kit	
				a) Without Impeller							
				b) With Impeller							
TRE64354 180 °F		TRE38009		See Chart on Page 81		TAR97708 (m) R73604		TRE38087		TRE64292	
						TRE60489 (m) R100812, (m) R127337,					
						(m) R127918, (m) R55164					

PowerTech Engine & Equipment Model						
4045D 4.5D 4 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.375 in 35 mm Piston (m): RE59279, RE505101 Con Rod (m): R123959, R500000 APPLICATIONS: AGRICULTURAL 5410 5715 5415 6010 5420/N 6110 5510 6610 5615 OEM 4.5L CONSTRUCTION 210LE 486E 310E 488E 450H 550H 485E 650H						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TRE65966 (RE505110) Consists of: a) TRE59279 b) TRE66271 c) TR123178 d) TR116383 e) TAR65507 f) TM41029	TRE65165 Std. TRE65911 .010 TRE65165B .020(8)	TRE65168 Std. TRE65912 .010 TRE65168B .020(8)	TRE65908 Std. TRE65909 .010 TRE65908B .020(8)
		1) TRE66092 TRE66092A (*) (*) w/C. Rod R500000				
		2) TIK66092 TIK66092A (*) (*) w/C. Rod R500000				
				Use 4	Use 1	Use 4
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft 4) Bush, Camshaft	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet
		3) Ring Gear 4) Crankshaft 5) Seal	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Camshaft 6) Bal. Shaft R/H 7) Bal. Shaft L/H		
		1) TRE505515 (7) 2) TRE44574 3) TR28811 (129T) TR114282 (142T) 4) TRE504638 (12) TRE506195 (11) 5) TH35244	1) TRE501455 2) TRE66082 3) TR116515 4) TR123352 (2) TR97342 (3) (R123353) 5) TR123542	1) TR123960 x4 2) TR114083 x8 (1) TR501124 x8 (1) 3) TR115299 x6 4) TR119874 x1 5) TRE56375 (5) 6) TRE500448 7) TRE500449	1) TR85363 x18 (4) 2) TRE518097 (9) TRE68715 (9) 3) TRE500002 4) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	1) TRE500737 (Standard Flow) TRE500734 (High Flow) 2) TRE508566 3) TR123417 4) TRE504914 5) TR123565 x8
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
		TR98062 Std. TR97490 .015	TR90692 Std. TR97492 .015	1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005
					(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363. (5) (m) R135439, R132324, R134213. (6) Line Connections are both threaded. (7) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097. (8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation. (9) Check application for proper usage. (10) Use with Stanadyne DE10 Injection Pump. (11) Taper Nose. (12) Straight Nose.	
Thermostat		Injector, Pencil	Seal, Injector	Fuel Transfer Pump		
TRE522076 180° F (9) TRE528652 180° F (9) TRE540550 180° F (9) TRE64354 180° F (9)		TRE60062 (Non Turbo) TRE48786 (Turbo) TRE531436 (10)	TR92352 TR48000	TRE68345 TRE66153 (6) TRE502513		

- (1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
 (2) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
 (3) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

- (9) Check application for proper usage.
 (10) Use with Stanadyne DE10 Injection Pump.
 (11) Taper Nose.
 (12) Straight Nose.

PowerTech Engine & Equipment Model					
4045T					
4.5T					
4 Cyl					
Bore: 4.19 in 106.5 mm		1) Engine O/H Kit		1) Engine I/F Kit	
Pin Ø: 1.375 in 35 mm		Piston-Liner Kit		Main Bearing	
Piston (m): RE59277, RE505100 (1)		TRE507920 (RE515372) Consists of: a) TRE515372 b) TRE66820 c) TR123178 d) TR116383 e) TAR65507 f) TM41029		Thrust Bearing	
Con Rod (m): R123959, R500000		Use 4		Use 1	
APPLICATIONS:		1) TRE66093 TRE66093A (*) (*) w/C. Rod R500000		Use 4	
AGRICULTURAL		2) TIK66093 TIK66093A (*) (*) w/C. Rod R500000		Use 1	
3410/X 5510/N 5715					
4890 5520/N 5725		1) Front Seal 2) Rear Seal		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft 4) Bush, Camshaft	
4895 5525/N 6700		3) Ring Gear 4) Crankshaft 5) Seal		5) Camshaft 6) Bal. Shaft R/H 7) Bal. Shaft L/H	
5415 5615		1) O/H Gasket Set		1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	
5425/N 5625/N		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk		1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet	
OEM		3) TRE505515 (9) 2) TRE44574 3) TR28811 (129T) TR114282 (142T) 4) TRE504638 (13) TRE506195 (12) 5) TH35244		1) TR85363 x18 (5) 2) TRE518097 (10) TRE68715 (10) 3) TRE500002 4) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	
CONSTRUCTION		1) TRE501455 2) TRE66082 3) TR116515 4) TR123352 (3) TR97342 (4) (R123353) 5) TR123542		1) TRE500737 (Standard Flow) TRE500734 (High Flow) 2) TRE508566 3) TR123417 4) TRE504914 5) TR123565 x8	
230 LCR 344H		1) TR123960 x4 2) TR114083 x8 (2) TR501124 x8 (2) 3) TR115299 x6 4) TR119874 x1 5) TRE56375 (6) 6) TRE500448 7) TRE500449		1) Seal, Valve 2) Lock, Valve	
310E (TURBO) 410E		Valve, Intake		1) Spring, Valve 2) Rotator, Valve	
310G (TURBO) 410G		Valve, Exhaust		1) TRE31617 2) TR91889	
310SE (TURBO) 410J		Insert, Valve 1) Intake 2) Exhaust		1) TR26125 2) TRE60005	
310SG (TURBO) 450H		TR98062 Std. TR97490 .015			
315SE 550H		TR90692 Std. TR97492 .015			
315SG 650H					
					
Thermostat		Injector, Pencil		Fuel Transfer Pump	
TRE522076 180° F (10)		TRE60062 (Non Turbo)		TRE68345	
TRE528652 180° F (10)		TRE48786 (Turbo)		TRE66153 (7)	
TRE540550 180° F (10)		TRE531436 (11)		TRE502513	
TRE64354 180° F (10)					

(1) These marking numbers RE592727, RE505100 require to use Ring Set **TRE66271**.

(2) Use TR114083 with Machine Split Con Rods, and use TR501124 with Fractured Split Con Rods.

(3) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.

(4) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

(6) (m) R135439, R132324, R134213.

(7) Line Connections are both threaded.

(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

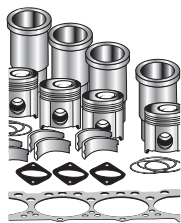
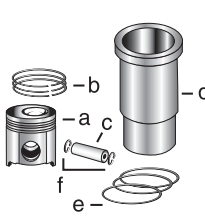
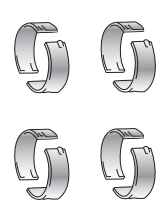
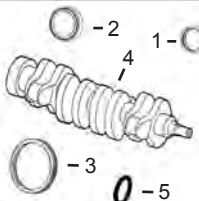
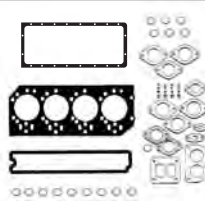
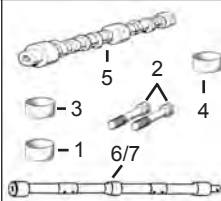
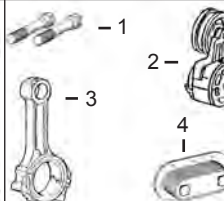
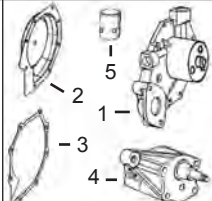
(9) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(10) Check application for proper usage.

(11) Use with Stanadyne DE10 Injection Pump.

(12) Taper Nose.

(13) Straight Nose.

PowerTech Engine & Equipment Model						
4045T/H 4.5T/H 4 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm Piston (m): RE55512, RE505102 Con Rod (m): R114081, R500335 APPLICATIONS: AGRICULTURAL 6010 6410/L/S 6110/L 6510L 6210/L 6610S 6310/L/S 6605 6405 6610 OEM 4.5L CONSTRUCTION 120 550H 444H/HCL 550G TC444H 555G 450G 650G 455G						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TRE507850 (RE505112) Consists of: a) TRE55512 b) TRE66820 c) TR123177 d) TR116383 e) TAR65507 f) TR54114	TRE65165 Std. TRE65911 .010 TRE65165B .020(8)	TRE65168 Std. TRE65912 .010 TRE65168B .020(8)	TRE65908 Std. TRE65909 .010 TRE65908B .020(8)
		1) TRE66094 TRE66094A (*) (*) w/C. Rod R500335 2) TIK66094 TIK66094A (*) (*) w/C. Rod R500335		Use 4	Use 1	Use 4
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft 4) Bush, Camshaft	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet
		3) Ring Gear 4) Crankshaft 5) Seal	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Camshaft 6) Bal. Shaft R/H 7) Bal. Shaft L/H		
		1) TRE505515 (7) 2) TRE44574 3) TR28811 (129T) TR114282 (142T) 4) TRE504638 (12) TRE506195 (11) 5) TH35244	1) TRE501455 2) TRE66082 3) TR116515 4) TR123352 (2) TR97342 (3) (R123353) 5) TR123542	1) TR114082 x4 2) TR114083 x8 (1) TR501124 x8 (1) 3) TR115299 x6 4) TR119874 x1 5) TRE56375 (5) 6) TRE500448 7) TRE500449	1) TR85363 x18 (4) 2) TRE518097 (9) TRE68715 (9) 3) TRE500608 4) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	1) TRE500737 (Standard Flow) TRE500734 (High Flow) 2) TRE508566 3) TR123417 4) TRE504914 5) TR123565 x8
		Valve, Intake TR98062 Std. TR97490 .015	Valve, Exhaust TR90692 Std. TR97492 .015	Insert, Valve 1) Intake 2) Exhaust 1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S	1) Seal, Valve 2) Lock, Valve 1) TRE31617 2) TR91889	1) Spring, Valve 2) Rotator, Valve 1) TR26125 2) TRE60005
		Thermostat TRE522076 180° F (9) TRE528652 180° F (9) TRE540550 180° F (9) TRE64354 180° F (9)	 Injector, Pencil TRE60062 (Non Turbo) TRE48786 (Turbo) TRE531436 (10)	 Seal, Injector TR92352 TR48000	 Fuel Transfer Pump TRE68345 TRE66153 (6) TRE502513	(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363. (5) (m) R135439, R132324, R134213. (6) Line Connections are both threaded. (7) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097. (8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation. (9) Check application for proper usage. (10) Use with Stanadyne DE10 Injection Pump. (11) Taper Nose. (12) Straight Nose

- (1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
 (2) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
 (3) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

PowerTech Engine & Equipment Model					
4045T/H For Tier 2 & Tier 3 Applications 4 Valve per Cylinder 4 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm Piston (m): RE521616 Con Rod (m): R500335 <u>APPLICATIONS:</u> AGRICULTURAL * 6430 6534 7130 CONSTRUCTION * 810D 810E 850J 1010D 1010E * See Index for more Applications					
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing
		2) Engine I/F Kit	TRE524450 Consists of: a) TRE521616 b) TRE524453 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165 Std. TRE65911 .010 TRE65165B .020 (2)	TRE65168 Std. TRE65912 .010 TRE65168B .020 (2)
		1) TRE536969			TRE65908 Std. TRE65909 .010 TRE65908B .020 (2)
		2) TIK536969		Use 4	Use 1
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft 4) Bush, Camshaft	1) Cyl Hd Cap Screw 2) Tappet 3) Tensioner, Belt 4) Con Rod 5) Oil Cooler
		3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Bal. Shaft R/H 6) Bal. Shaft L/H	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil
		1) TRE505515 (1) 2) TRE44574 3) TR28811 (5) TR114282 (5) 4) TRE504638 (4) TRE506195 (3)	1) TRE536962 2) TRE536967 3) TR116515 4) TR521493 (5) TR97342 (5) 5) TR524498 TR524499	1) TR114082 x4 2) TR501124 x8 3) TR115299 x6 4) TR119874 x1 5) TRE500448 6) TRE500449	1) TR502511 x18 2) TR123565 x8 3) TRE518097 4) TRE500608 5) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)
		1) TRE546918 (5) TRE500737 (5) TRE500734 (5) 2) TRE508566 3) TR123417 4) TRE504914 (5) TRE521756 (5)			
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve
		TRE531221 Std. (5) TRE518080 Std. (5)	TRE518081 Std.	1) TRE518082 Std. 2) TRE518083 Std.	1) TRE526519 x16 (5) TRE519115 x16 (5) 2) TR502371 x32 (5)
					1) TR518872 x16 TRE516486 x16
				(4) Straight Nose. (5) Check application for proper usage. (6) Line Connections are both threaded. (7) Line Connections are one hose barb & one threaded. (8) Line Connections are two hose barbs.	
		Thermostat	Fuel Transfer Pump		
		TRE522076 180° F (5) TRE538289 180° F (5) TRE64354 180° F (5)	TRE66153 (5) (6) TRE68345 (5) (7) TRE502513 (5) (8) TRE517230 (5)		

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

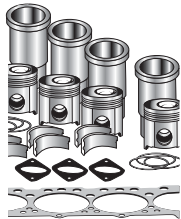
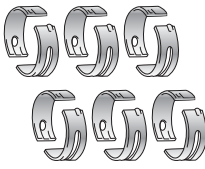
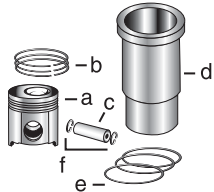
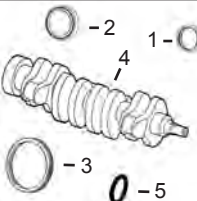
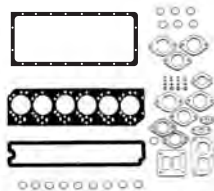
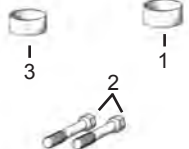
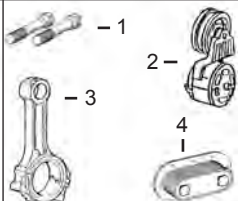
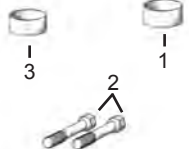
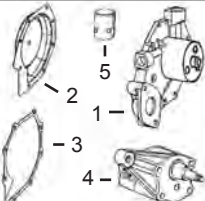
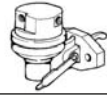
(3) Taper Nose.

PowerTech Engine & Equipment Model 4045T/H For Tier 2 & Tier 3 Applications 2 Valve per Cylinder 4 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm Piston (m): RE527039 Con Rod (m): R500335 APPLICATIONS: AGRICULTURAL * 335D 6125D 437D 6130 650J 6130D 5080R/RN 6140D 5090R/RN 6230 5100R/RN 6325 5105M/ML 6330 6100D 6425 6110D 6430 6115D 6534 CONSTRUCTION * 344J 710J ML1335 * See Index for more Applications					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
	2) Engine I/F Kit	TRE536083 Consists of: a) TRE527039 b) TRE527844 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165 Std. TRE65911 .010 TRE65165B .020 (2)	TRE65168 Std. TRE65912 .010 TRE65168B .020 (2)	TRE65908 Std. TRE65909 .010 TRE65908B .020 (2)
	1) TRE532715				
	2) TIK532715				
			Use 4	Use 1	Use 4
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bush, Bal. Shaft 4) Bush, Camshaft	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet
	3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Bal. Shaft R/H 6) Bal. Shaft L/H		
	1) TRE505515 (1) 2) TRE44574 3) TR28811 (5) TR114282 (5) 4) TRE504638 (4) TRE506195 (3)	1) TRE532713 2) TRE532842 3) TR116515 4) TR521493 (5) TR97342 (5) (R123353) 5) TR123542 (5) TR524468 (5)	1) TR114082 x4 2) TR501124 x8 3) TR115299 x6 4) TR119874 x1 5) TRE500448 6) TRE500449	1) TR502511 x18 (5) TR85363 x18 (5) 2) TRE518097 (5) TRE68715 (5) 3) TRE500608 4) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	1) TRE500737 (5) TRE500734 (5) 2) TRE508566 3) TR123417 4) TRE504914 (5) 5) TR123565 x8
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 Std. TR97490 .015	TR90692 Std. TR97492 .015	1) TR106831 Std. 2) TR106829 Std.	1) TRE31617 2) TR91889	1) TR26125 (5) 2) TRE60005 (5)
	Thermostat				
		Fuel Transfer Pump			
TRE522076	180° F (5)	TRE66153 (5) (6)			
TRE528652	180° F (5)	TRE68345 (5) (7)			
TRE540550	180° F (5)	TRE502513 (5) (8)			
TRE64354	180° F (5)				

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

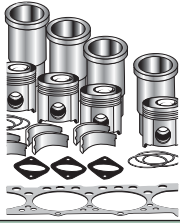
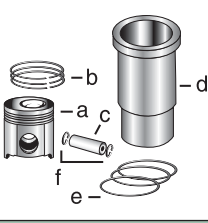
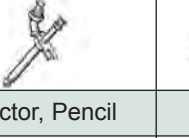
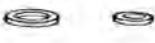
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3) Taper Nose.

PowerTech Engine & Equipment Model					
6068T					
6.8T					
6 Cyl					
Bore: 4.19 in 106.5 mm		1) Engine O/H Kit		Thrust Bearing	
Pin Ø: 1.375 in 35 mm		2) Engine I/F Kit		Con Rod Bearing	
Piston (m): RE59277, RE505100 (9)		TRE507920 (RE515372) Consists of: a) TRE515372 b) TRE66820 c) TR123178 d) TR116383 e) TAR65507 f) TM41029		TRE65165 Std. TRE65911 .010 TRE65165B .020 (8)	
Con Rod (m): RE123959, R500000		1) TRE66096 TRE66096A (*) (*) w/C. Rod R500000		TRE65168 Std. TRE65912 .010 TRE65168B .020 (8)	
APPLICATIONS:		2) TIK66096 TIK66096A (*) (*) w/C. Rod R500000		Use 6	
AGRICULTURAL				Use 1	
6603 7455 7460 9935				Use 6	
OEM					
6.8L					
CONSTRUCTION		1) Front Seal 2) Rear Seal		1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	
670C/CH 672CH 700H/J		1) O/H Gasket Set		1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet	
		3) Ring Gear 4) Crankshaft 5) Seal			
		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk			
		1) TRE505515 (5) 2) TRE44574 3) TR28811 (129T) TR114282 (142T) 4) TRE515785 (3) TRE505921 (3) 5) TH35244		1) TR123960 x6 2) TR114083 x12 (1) TR501124 x12 (1) 3) TR119874 x1	
		1) TRE501456 2) TRE66085 3) TR116516 4) TR123354 5) TR123543		1) TR85363 x26 (2) 2) TRE518097 (7) TRE68715 (7) 3) TRE500002 4) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	
				1) TRE500737 (Standard Flow) TRE500734 (High Flow) 2) TRE508566 3) TR123417 4) TRE504914 5) TR123565 x12	
		Valve, Intake		1) Seal, Valve 2) Lock, Valve	
		Valve, Exhaust		1) Spring, Valve 2) Rotator, Valve	
		Insert, Valve 1) Intake 2) Exhaust		1) TRE31617 2) TR91889	
		1) TR98062 Std. TR97490 .015		1) TR26125 2) TRE60005	
		1) TR90692 Std. TR97492 .015			
Thermostat		Injector, Pencil			
TRE522076 180° F (7) TRE528652 180° F (7) TRE540550 180° F (7) TRE64354 180° F (7)		Seal, Injector			
TRE60062 (Non Turbo) TRE48786 (Turbo) TRE531436 (6)		TR92352 TR48000			
		Fuel Transfer Pump			
		TRE66153 (4) TRE68345 (10) TRE502513 (11)			

- (1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(3) Crankshaft (m) R116076, Straight Nose.

- (4) Line Connections are both threaded.
(5) 1 Piece Unitized Seal and Wearsleeve;
Replaces TRE59810, RE538097.
(6) Use with Stanadyne DE10 Injection Pump.
(7) Check application for proper usage.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) These marking numbers RE592727, RE505100 require to use Ring Set TRE66271.
(10) Line Connections are one hose barb & one threaded.
(11) Line Connections are two hose barbs.

PowerTech		Engine & Equipment		Model	
6068T/H					
6.8T/H					
6 Cyl					
Bore: 4.19 in 106.5 mm		1) Engine O/H Kit		Piston-Liner Kit	
Pin Ø: 1.62 in 41 mm		2) Engine I/F Kit		Main Bearing	
Piston (m): RE55512, RE505102		1) TRE66097 TRE66097A (*) (*) w/C. Rod R500335		TRE65165 Std. TRE65911 .010 TRE65165B .020 (8)	
Con Rod (m): R114081, R500335		2) TIK66097 TIK66097A (*) (*) w/C. Rod R500335		TRE65168 Std. TRE65912 .010 TRE65168B .020 (8)	
APPLICATIONS:		1) Front Seal 2) Rear Seal		Use 6	
AGRICULTURAL		1) O/H Gasket Set		Use 1	
4700 7210 7610		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Use 6	
6605 7405 9410		1) Front Seal 2) Rear Seal		Use 1	
6615 7410		1) O/H Gasket Set		Use 6	
6715 7510		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Use 1	
OEM		1) Front Seal 2) Rear Seal		Use 6	
6.8L		1) O/H Gasket Set		Use 1	
CONSTRUCTION		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Use 6	
200LL/LC 640G/II/III		1) Front Seal 2) Rear Seal		Use 1	
230LC 643G		1) O/H Gasket Set		Use 6	
270LC 648G/II/III		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Use 1	
540G/GLL 670C/CH		1) Front Seal 2) Rear Seal		Use 6	
544H/HLL 672CH		1) O/H Gasket Set		Use 1	
TC544H 698G		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Use 6	
548G/II/III 710D		1) Front Seal 2) Rear Seal		Use 1	
624H/HLL 843G		1) O/H Gasket Set		Use 6	
TC624H 850G		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		Use 1	
		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TR98062 Std. TR97490 .015		TR90692 Std. TR97492 .015		1) TR98063 Std. TR98335 O/S 2) TR85687 Std. TR93910 O/S	
		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
Thermostat		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE522076 180° F (7)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE528652 180° F (7)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE540550 180° F (7)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE64354 180° F (7)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
Injector, Pencil		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE60062 (Non Turbo)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE48786 (Turbo)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE531436 (6)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
Seal, Injector		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TR92352		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TR48000		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
Fuel Transfer Pump		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE66153 (4)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE68345 (9)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	
TRE502513 (10)		1) Spring, Valve 2) Rotator, Valve		1) Seal, Valve 2) Lock, Valve	

- (1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
 (2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
 (3) Crankshaft (m) R116076, Straight Nose.

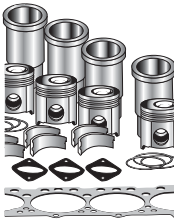
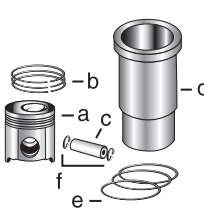
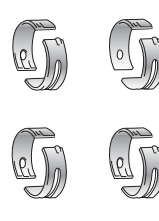
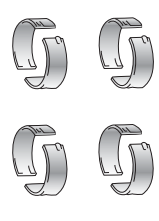
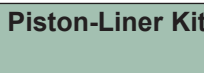
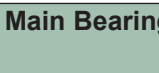
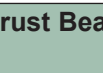
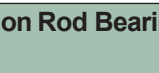
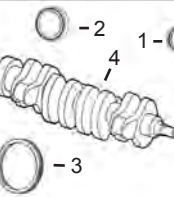
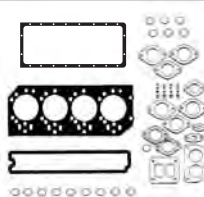
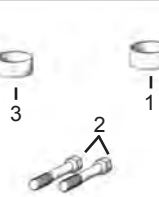
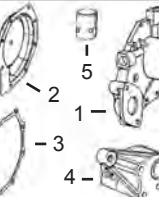
- (4) Line Connections are both threaded.
 (5) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
 (6) Use with Stanadyne DE10 Injection Pump.
 (7) Check application for proper usage.
 (8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
 (9) Line Connections are one hose barb & one threaded.
 (10) Line Connections are two hose barbs.

PowerTech Engine & Equipment Model 6068T/H For Tier 2 & Tier 3 Applications 4 Valve per Cylinder 6 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm Piston (m): RE521616 Con Rod (m): R500335 APPLICATIONS: AGRICULTURAL * 640GIII 2954D 7730 640H 4730 7830 648GIII 4830 7930 6830 5430I 9540i WTS 648H 7195J 9560 STS 648HTJ 7210J 9570 STS 748H 7225J 9580i WTS 748HTJ 7430E S550 STS 848H 7530 T550 848HTJ 7630 W540 CONSTRUCTION * 240DLC 624K/KR 672G 250GLC 644J/K 672GP 270DLC 670G 764 290GLC 670GP 755D * See Index for more App						
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TRE524450 Consists of:	TRE65165 Std.	TRE65168 Std.	TRE65908 Std.	
	1) TRE527834	a) TRE521616 b) TRE524453 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65911 .010 TRE65165B .020 (2)	TRE65912 .010 TRE65168B .020 (2)	TRE65909 .010 TRE65908B .020 (2)	
	2) TIK527834		Use 6	Use 1	Use 6	
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cyl Hd Cap Screw 2) Tappet 3) Tensioner, Belt 4) Con Rod 5) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil	
	3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk				
	1) TRE505515 (1) 2) TRE44574 3) TR28811 (5) TR114282 (5) 4) TRE515785 (4) TRE505921 (3)	1) TRE527833 2) TRE527832 3) TR116516 4) TR521498 (5) TR123354 (5) 5) TR524496 TR524497	1) TR114082 x6 2) TR501124 x12 3) TR119874 x1	1) TR502511 x26 2) TR123565 x12 3) TRE518097 4) TRE500608 5) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	1) TRE546918 (5) TRE500737 (5) TRE500734 (5) 2) TRE508566 3) TR123417 4) TRE504914 (5) TRE521756 (5)	
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve (5)
	TRE531221 Std. (5) TRE518080 Std. (5)	TRE518081 Std.	1) TRE518082 Std. 2) TRE518083 Std.	1) TRE526519 x24 (5) TRE519115 x24 (5) 2) TR502371 x48 (5)	1) TR518872 x24 TRE516486 x24	
				(4) Crankshaft (m) R116076, Straight Nose. (5) Check application for proper usage. (6) Line Connections are both threaded. (7) Line Connections are one hose barb & one threaded. (8) Line Connections are two hose barbs.		
Thermostat	Fuel Transfer Pump					
TRE522076 180° F (5)	TRE66153 (5) (6)					
TRE538289 180° F (5)	TRE68345 (5) (7)					
TRE64354 180° F (5)	TRE502513 (5) (8)					
	TRE517230 (5)					

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

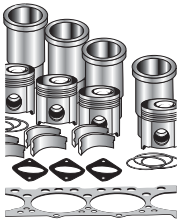
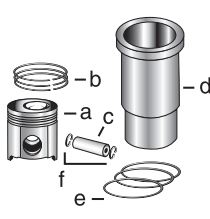
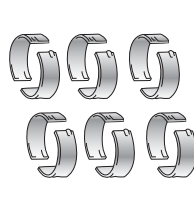
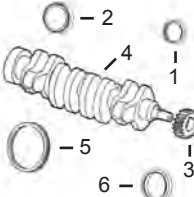
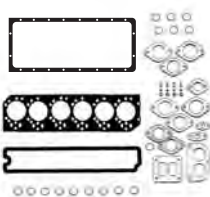
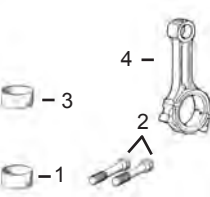
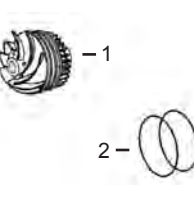
(3) Crankshaft (m) R503470, Taper Nose.

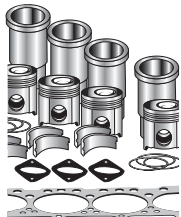
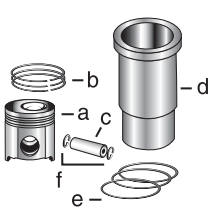
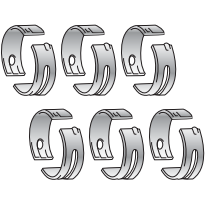
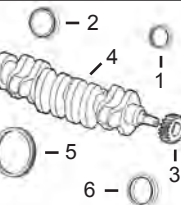
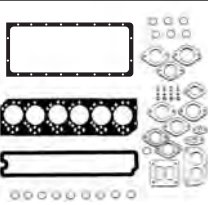
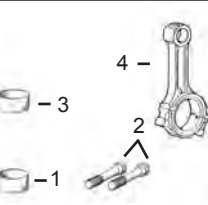
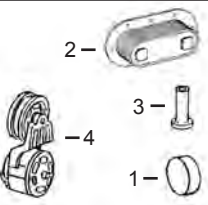
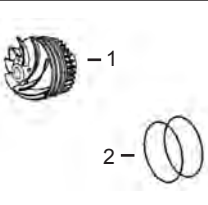
PowerTech Engine & Equipment Model						
6068T/H For Tier 2 & Tier 3 2 Valve per Cylinder 6 Cyl Bore: 4.19 in 106.5 mm Pin Ø: 1.62 in 41 mm Piston (m): RE527039 Con Rod (m): R500335 <u>APPLICATIONS:</u> AGRICULTURAL * 1450CWS 6530 1450WTS 6630 1470 6830 1550CWS 6930 1550WTS 7130 1654 7230 1854 7330 2054 7430 6225 W330 6525 CONSTRUCTION * 710K * See Index for more Applications						
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TRE536083 Consists of: a) TRE527039 b) TRE527844 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165 Std. TRE65911 .010 TRE65165B .020 (2)	TRE65168 Std. TRE65912 .010 TRE65168B .020 (2)	TRE65908 Std. TRE65909 .010 TRE65908B .020 (2)	
	1) TRE532634					
	2) TIK532634		Use 6	Use 1	Use 6	
						
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet	
	3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk				
	1) TRE505515 (1) 2) TRE44574 3) TR28811 (5) TR114282 (5) 4) TRE515785 (4) TRE505921 (3)	1) TRE532631 2) TRE532841 3) TR116516 4) TR521498 (5) TR123354 (5) 5) TR524469	1) TR114082 x6 2) TR501124 x12 3) TR119874 x1	1) TR502511 x26 (5) TR85363 x26 (5) 2) TRE518097 (5) TRE68715 (5) 3) TRE500608 4) TRE59296 (5 Plates) TRE56690 (7 Plates) TRE59298 (9 Plates)	1) TRE500737(5) TRE500734 (5) 2) TRE508566 3) TR123417 4) TRE504914 5) TR123565 x12	
		Valve, Intake TR98062 Std. TR97490 .015	Valve, Exhaust TR90692 Std. TR97492 .015	Insert, Valve 1) Intake 2) Exhaust 1) TR106831 Std. 2) TR106829 Std.	1) Seal, Valve 2) Lock, Valve 1) TRE31617 2) TR91889	1) Spring, Valve 2) Rotator, Valve 1) TR26125 (5) 2) TRE60005 (5)
	Thermostat		Fuel Transfer Pump	(4) Crankshaft (m) R116076, Straight Nose. (5) Check application for proper usage. (6) Line Connections are both threaded. (7) Line Connections are one hose barb & one threaded. (8) Line Connections are two hose barbs.		
TRE522076 180° F (5) TRE528652 180° F (5) TRE540550 180° F (5) TRE64354 180° F (5)		TRE66153 (5) (6) TRE68345 (5) (7) TRE502513 (5) (8)				

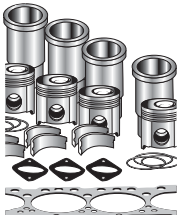
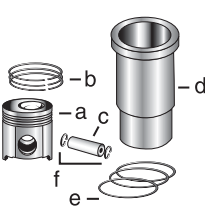
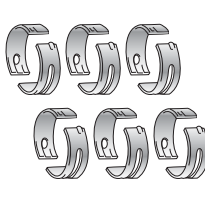
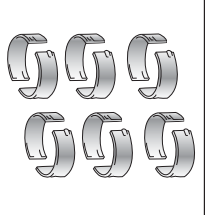
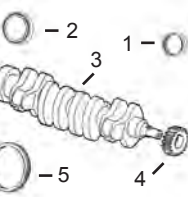
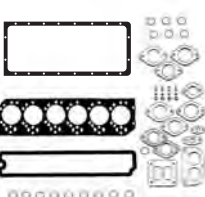
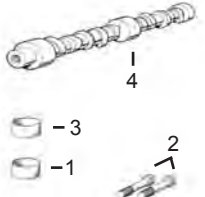
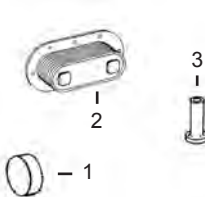
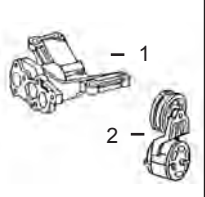
(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.

(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(3) Crankshaft (m) R503470, Taper Nose.

PowerTech Engine & Equipment Model						
6081 High Comp. Piston 4801 4803 8.1L Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm Con Rod (m): R116340 (ESN > 86,536) R501034 (ESN 86,537 >) APPLICATIONS: AGRICULTURAL * 1270D 8220/T 1470D 8300/T 2256 8310/T 2258 8320/T 2264 8400T 7710 9100 7810 9510/SH 7820 9550/SH 7920 9560 WTS 8100/T 9560i WTS 8110/T 9580 WTS 8120/T 9580i WTS 8200/T 9640 WTS 8210/T 9640i WTS 9970 * See Index for more Applications		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TRE64509 Consists of: a) TRE70688 b) TRE503528 c) TR57771 d) TR116236 e) TAR98850 f) TE1343FN	TRE504195 Std. TRE504196 .011 Use 6	TRE504198 Std. TRE504199 .011 Use 1 Thrust Washer TRE61253 Std. Use 3, Order Qty 1	TR116081 Std. TRE57167 .011 Use 6
		1) TOK504201 TOK504201A				
		2) TIK504201 TIK504201A				
						
1) Front Seal 2) Rear Seal		1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Plug Camshaft 2) Oil Cooler 3) Tappet 4) Tensioner, Belt	1) Pump, Water 2) O'ring Mount Kit	
3) Crankshaft Gear 4) Crankshaft 5) Ring Gear 6) Rear Gear		2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket	4) Con Rod			
1) TAR49025 2) TRE520036 3) TR104587 4) TRE535300 (1) or TRE534314 (2) 5) TR28811 6) TR63326		1) TRE506220 2) TRE506222 3) TRE55475 4) TR71918 (3)	1) TR74008 x6 2) TR66452 x12 (4) TR501035 x12 (4) 3) TR87561 x4 4) TRE53154 (10) TRE535555 (11)	1) TR82007 2) TAR55394 3) TR110126 4) TRE518097 (9) TRE68715 (9) TRE57498 (9)	1) TRE521502 2) TRE509463	
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve 3) Shield, Valve	1) Spring, Valve
TR84618 Std. TR93308 .003 TR93312 .015		TR84619 Std. TR93311 .003 TR93313 .015	1) TR121193 2) TR119132	1) TT20129 2) TT20077 3) TR102882 x6 (5) TR501640 x6 (6)	1) TR91822 (7) TR502187 (8)	
			(1) With helical oil pump drive gear. Do not use with HPCR fuel system. (2) With straight oil pump drive gear. (3) With Aluminum Oil Pan use TR49377 (RE504822). (4) Use TR66452 Rod Bolts with Machine Split Connecting Rods, and use TR501035 Rod Bolts with Fractured Split Connecting Rods. (5) For engine ESN 199,999 and below. For Exhaust Valves only. (6) For engine ESN 200,000 and above. For Exhaust Valves only. (7) For engine ESN 199,999 and below.			
Thermostat		Pump, Oil				
TAR48675 180° F		TRE60622				

PowerTech Engine & Equipment Model						
6081 Low Comp. Piston 4802 4806 8.1L Bore: 4.56 in 116 mm Pin Ø: 1.85 in 47 mm Con Rod (m): R116340 (ESN > 86,536) R501034 (ESN 86,537 >)		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
		2) Engine I/F Kit	TRE508156 Consists of: a) TRE70689 b) TRE503528 c) TR57771 d) TR116236 e) TAR98850 f) TE1343FN	TRE504195 Std. TRE504196 .011 Use 6	TRE504198 Std. TRE504199 .011 Use 1 Thrust Washer TRE61253 Std. Use 3, Order Qty 1	TR116081 Std. TRE57167 .011 Use 6
		1) TOK504202 TOK504202A				
		2) TIK504202 TIK504202A				
APPLICATIONS: AGRICULTURAL * 2266 9650/CTS 3510 9660/CTS 4920 9660 WTS 6610 9660i WTS 6650 9680 WTS 7200 9680i WTS 8400 9750 STS 8410/T 9760 STS 8420/T 9780 CTS 8520/T 9850i WTS 9100 9976 9120 9986 9560/STS 9996 9580 WTS CH3510 9610 9986 CTS 9640 WTS CTSII 9640i WTS CTSIII * See Index for more Applications						
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Plug Camshaft 2) Oil Cooler 3) Tappet 4) Tensioner, Belt	1) Pump, Water 2) O'ring Mount Kit
		3) Crankshaft Gear 4) Crankshaft 5) Ring Gear 6) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket	4) Con Rod		
		1) TAR49025 2) TRE520036 3) TR104587 4) TRE535300 (1) or TRE534314 (2) 5) TR28811 6) TR63326	1) TRE506220 2) TRE506222 3) TRE55475 4) TR71918 (3)	1) TR74008 x6 2) TR66452 x12 (4) TR501035 x12 (4) 3) TR87561 x4 4) TRE53154 (10) TRE535555 (11)	1) TR82007 2) TAR55394 3) TR110126 4) TRE518097 (9) TRE68715 (9) TRE57498 (9)	1) TRE521502 2) TRE509463
		Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve 3) Shield, Valve	1) Spring, Valve
		TR84618 Std. TR93308 .003 TR93312 .015	TR84619 Std. TR93311 .003 TR93313 .015	1) TR121193 2) TR119132	1) TT20129 2) TT20077 3) TR102882 x6 (5) TR501640 x6 (6)	1) TR91822 (7) TR502187 (8)
			(1) With helical oil pump drive gear. Do not use with HPCR fuel system. (2) With straight oil pump drive gear. (3) With Aluminum Oil Pan use TR49377 (RE504822). (4) Use TR66452 Rod Bolts with Machine Split Connecting Rods, and use TR501035 Rod Bolts with Fractured Split Connecting Rods. (5) For engine ESN 199,999 and below. For Exhaust Valves only. (6) For engine ESN 200,000 and above. For Exhaust Valves only. (7) For engine ESN 199,999 and below.			
Thermostat		Pump, Oil				
TAR48675 180° F		TRE60622				

PowerTech Engine & Equipment Model						
6090 For Tier 2 & Tier 3 Applications 9.0L Bore: 4.664 in 118.35 mm Stroke: 5.400 in 136 mm <u>APPLICATIONS:</u> AGRICULTURAL * 2854 1270D/E 8230 3520/22 1470D/E 8235R 4930 1710D 8245R 4940 1711D 8260R 7180 1910E 8270R 7200 250D 8285R 7250 300D 8295R 7660 350DLC 8310R 8030 350GLC 8320R 8130 3754D 8335R 8230 380GLC 8345R 8330 670/72G 8430 8430 703JH 850J 8530 724K 870G 9230 744K 903K 9580 753J/JH 953K 9660 759J/JH 9660 9680 770G/GP C670 * See Index for more Applications	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing	
	2) Engine I/F Kit	TRE545266 Consists of: a) TRE529264 b) TRE539642 c) TR517073 d) TR529710 (*) e) TAR98850 f) TR519640	TRE529319 Std. TRE529319A .011	TRE529320 Std. TRE529320A .011	TRE529318 Std. TRE529318A .011	
						
	1) Front Seal 2) Rear Seal 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	1) O/H Gasket Set 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk 6) Intake Manifold Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam 4) Camshaft	1) Plug Camshaft 2) Oil Cooler 3) Tappet	1) Pump, Oil 2) Tensioner, Belt	
	1) TRE543639 2) TRE520036 TRE530121 (6) 3) TRE540429 4) TR104587 5) TR28811	1) TRE528400 2) TRE528402 3) TR525541 4) TR532464 (1) TR520844 (2) 5) TR527884 (4) TR526607 (5) 6) TR518260	1) TR74008 x6 2) TR501035 x12 3) TR527877 x6 4) TR522884	1) TR82007 2) TAR55394 3) TRE540586	1) TRE543187 2) TRE518097 (3) TRE68715 (3) TRE57498 (3)	
	Valve, Intake	Valve, Exhaust	Insert, Valve	1) Guide, Valve 2) Lock, Valve	1) Spring, Valve 2) Seal, Valve Strm	
	TR520223 Std.	TR520224 Std.	TR527285	1) TR527286 2) TR520798	1) TR504235 2) TRE529187	
	Thermostat		(*) With Shim. (1) Paper. (2) Metal / Rubber. (3) Check application for proper usage. (4) Use with RE529972 Valve Cover. (5) Use with RE536705 Valve Cover. (6) Flanged Seal.			
TRE528652 180° F (3) TRE540550 180° F (3)	Water Pump	TRE530194				

Miscellaneous Parts Available from Maxiforce

(Hyd. Kits, Gaskets, Seals, Disks and Others)

Part Number	Description	Part Number	Description
TA877R	Bushing	TR50655	Collar Shift
TAL28738	Bearing	TR51936	Grommet
TAL38235	Disk	TR51937	Nut
TAL38238	Disk	TR53081	Gasket, Intake
TAR101236	Seal, Teflon	TR54641	Gasket, Thermostat
TAR101238	Seal, Teflon	TR55405	Gasket, Water Pump
TAR108105	Disk	TR56809	Gasket, Water Pump
TAR94517	Disk	TR61437	Gasket, Water Pump
TAR98993	Seal Kit, Hyd Pump	TR61871	Gasket, Pump, Oil
TAZ10367	Gatherer Chain	TR66164	Washer, Thrust
TAZ24219	Link Chain	TR68381	Filter
TAZ27951	Pump, Fuel	TR68384	Control Valve
TH35244	O'ring, Sleeve C/S	TR77663	Clutch Plate
TL28664	Gear	TR78202	Seat
TL28665	Gear	TR79604	Nut, Tube
TL29226	Shaft	TR79605	Grommet, Injector
TL29284	Shift Collar	TR79606	Tee, Fitting (Thread)
TL31503	Gear Shaft	TR90648	Gasket, Cover
TL33497	Break Actuator	TR90658	Gasket, Exhaust
TL34432	Coupling	TR97351	Gasket, Flywheel House
TL34569	Coupling	TR97454	Gasket, Timing Gear
TL55004	Break Actuator	TR97455	Gasket, Water Pump
TL62442	Gasket	TR99802	Hose, Adapter Kit
TL62836	Bushing	TRE28790	Seal, Hyd Pump
TL62837	Bushing	TRE29103	Kit, Hyd Pump
TMX504	Kit, Grommet	TRE29104	Kit, Hyd Pump
TMX506	Kit, Grommet	TRE29107	Kit, Hyd Pump
TR106796	O'ring, Rocker Cover	TRE29109	Kit, Hyd Pump
TR114282	Ring Gear (142 Teeth)	TRE29815	Disk
TR26058	Gasket, Rear Cover	TRE29816	Disk
TR26149	Packing, Hyd Pump	TRE37011	Disk
TR26341	Gasket, Water Pump	TT20075	Gasket, Rocker Cover
TR26343	Gasket, Water Pump	TT20088	Ring Gear (142 Teeth)
TR26632	Bushing	TT20215	Gasket, Thermostat
TR27285	Gasket, Fuel Pump	TT20219	Gasket, Thermostat House
TR28794	Dust Bowl, Plastic	TT20242	Gasket, Water Pump
TR28795	Dust Bowl, Plastic	TT20243	Gasket, Water Pump
TR28811	Ring Gear (129 Teeth)	TT20268	Gasket, Water Pump
TR34360	Screw	TT20467	Gasket, Rocker Cover
TR34764	Washer, Injector	TT21669	Bushing
TR39182	Ring, Hyd Pump	TT21976	Gear/Engrane
TR39259	Clutch Plate	TT22914	Drive Shaft
TR39319	Shaft	TT24932	Gasket, Thermostat
TR39325	Clutch Plate	TT25485	Gasket, Water Pump
TR42406	Gasket, Water Pump	TT28664	Clutch Disk
TR42694	Gasket, Thermostat	TT29394	Beval Gear
TR43117	Gasket, Water Pump	TT30065	Gear
TR43751	Gasket, Turbo	TT30253	Housign/Carcaza
TR45822	Bushing	TZ10117	Wheel/Rueda Dentada
TR46984	Gasket, Gear House	TZ10661	Wheel/Rueda Dentada
TR47047	Gasket, Timing Gear	TZ10747	Cube/Cubo
TR47394	Gasket, Aftercooler	TZ10768	Hub
TR49865	Gasket, Rocker Cover	TZ10997	Chain Sprocket
TR49866	Gasket, Rocker Cover	TZ11544	Chain Sprocket
TR500374	Gasket, Filter Base	TZ27546	Shaft/Eje
TR50397	Gasket, Intake	TZ31218	Spacer
TR50410	Gasket, Water Pump		

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John Deere Water Pump Repair Kit Identification Chart

300 Series Engines

HOUSING MARKED	KIT WITHOUT IMPELLER	KIT WITH IMPELLER	HOUSING MARKED	KIT WITHOUT IMPELLER	KIT WITH IMPELLER
T23630	TRE19507	TRE62658	R79172 (B)	TMX9448	TRE11347
T23632	TRE19507	TRE62658	R80168	TRE19511	N/A
T29521	TRE19507	TRE62658	R82787	TRE19511	N/A
T29701	TMX9398	TMX131	R90783	TRE19510	TRE11348
R48992	TRE19507	TRE62658	R90784	TRE19510	TRE11348
R48994	TMX9398	TMX131	R91724	TRE19507	TRE62658
R48997	TRE19507	TRE62658	R97564	TRE19510	TRE11348
R51039 (A)	TRE19507	TRE62658	R99665	TRE19510	TRE11348
R51039 (B)	TMX9448	TRE11347	R100871 (A)	TRE19507	TRE62658
R51961	TRE19510	TMX132	R100871 (B)	TMX9448	TRE11347
R52009	TMX381	TMX382	R104648	TRE19510	TRE11348
R54051 (A)	TRE19507	TRE62658	R111028 (A)	TRE19507	TRE62658
R55130 (A)	TRE19507	TRE62658	R111028 (B)	TMX9448	TRE11347
R55130 (B)	TMX9448	TRE11347	R111084	TRE19507	TRE62658
R55164 (A)	TRE19507	TRE62658	R127918		TRE62662
R55164 (B)	TMX9448	TRE11347	R100812		TRE62662
R55758 (A)	TRE19507	TRE62658			
R55758 (B)	TMX9448	TRE11347			
R55971	TRE19510	TRE11348			
R56787	TRE19507	TMX133			
R56813	TRE19510	TRE11348			
R59049	TRE19507	TRE62658			
R62902	TRE19507	TMX133			
R65880 (A)	TRE19507	TRE62658			
R65880 (B)	TMX9448	TRE11347			
R66420	TMX285	N/A			
R67188 (A)	TRE19507	TRE62658			
R67188 (B)	TMX9448	TRE11347			
R67741	TRE19511	N/A			
R68733	TMX285	N/A			
R70437 (A)	TRE19507	TRE62658			
R70437 (B)	TMX9448	TRE11347			
R70612	TRE19510	TRE11348			
R73604 (A)	TRE19507	TRE62658			
R73604 (B)	TMX9448	TRE11347			
R73606	TRE19510	TMX132			
R73724	TRE19510	TMX132			
R73801 (A)	TRE19507	TRE62658			
R73801 (B)	TMX9448	TRE11347			
R77012 (A)	TRE19507	TRE62658			
R77012 (B)	TMX9448	TRE11347			
R78286 (A)	TRE19507	TRE62658			
R78286 (B)	TMX9448	TRE11347			
R78287	TRE19510	TRE11348			
R79171	TRE19510	TMX132			
R79172 (A)	TRE19507	TRE62658			

(A) Pulley is made of stamped steel
(B) Pulley is made of cast iron.

400 Series Engines

HOUSING MARKED	KIT WITHOUT IMPELLER	KIT WITH IMPELLER
R26337	TMX9212	TAR55617
R27547	TMX9212	TAR55617
R34964	TMX9257	TAR9834
R34974	TMX9257	TAR9834
R34977	TMX9212	TAR55617
R34982	TMX9212	TAR55617
R41315	TMX9355	TAR55619
R41316	TMX9257	TAR9834
R41318	TMX9355	TAR55619
R43114	TMX404	N/A
R44122	TMX9355	TAR55619
R46561	TMX404	N/A
R50408	TMX404	TMX137
R50409	TMX404	TMX135
R51683	TMX404	TMX135
R54955	TMX139	TMX140
R58713	TMX404	N/A
R61439	TMX150	TRE10967

John Deere 300 Series Water Pump Repair Kit Components

KITS WITHOUT IMPELLERS

KITS WITH IMPELLERS

<i>KIT REF.</i>	<i>COMPONENTS</i>		<i>KIT REF.</i>	<i>COMPONENTS</i>	
TRE19507	TJD9257	BEARING	TRE62658	TRE19507	KIT
	TAR101549	SEAL KIT		TT30897	IMPELLER
	TT20242	GASKET			
	TT20243	GASKET			
	TT20268	GASKET			
	TR25485	GASKET	TRE11348	TRE19510	KIT
	TR55405	GASKET		TR56812	IMPELLER
	TR97455	GASKET			
TRE19510	TJD8643	BEARING	TMX132	TRE19510	KIT
	TAR101549	SEAL KIT		TR40979	IMPELLER
	TT25485	GASKET			
	TR56809	GASKET			
	TT20243	GASKET			
TRE19511	TJD7686	BEARING	TRE62662	TJD9448	BEARING
	TAR101549	SEAL KIT		TAR101549	SEAL KIT
	TRE20767	SEAL		TR104583	GASKET
	TRE20768	SEAL		TR40979	IMPELLER
	TR82052	SHAFT		TT20243	GASKET
	TT20243	GASKET			
	TR56809	GASKET			
TMX9398	TJD9398	BEARING	TMX131	TMX9398	KIT
	TAR101549	SEAL KIT		TR40979	IMPELLER
	TT20243	GASKET			
	TT25485	GASKET			
TMX9448	TJD9448	BEARING	TRE11347	TMX9448	KIT
	TAR101549	SEAL KIT		TT30897	IMPELLER
	TT20243	GASKET			
	TR55405	GASKET			
TMX285	TJD9257	BEARING	TMX133	TMX285	KIT
	TAR101549	SEAL KIT		TR40979	IMPELLER
	TT20243	GASKET			
TMX381	TJD9448	BEARING	TMX382	TMX381	KIT
	TAR101549	SEAL KIT		TR40979	IMPELLER
	TR25485	GASKET			
	TT20243	GASKET			

John Deere 400 Series Water Pump Repair Kit Components

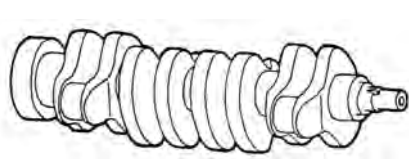
KITS WITHOUT IMPELLERS			KITS WITH IMPELLERS		
KIT REF.	COMPONENTS		KIT REF.	COMPONENTS	
TMX9257	TJD9257 TAR62933 TT13119 TR26341 TR26343	BEARING SEAL KIT O'RING GASKET GASKET	TAR9834	TMX9257 TR40979	KIT IMPELLER
TMX9212	TJD9212 TAR62933 TR26341 TR26343	BEARING SEAL KIT GASKET GASKET	TAR55617	TMX9212 TR40979	KIT IMPELLER
TMX9355	TJD9355 TAR62933 TR26341 TR26343	BEARING SEAL KIT GASKET GASKET	TAR55619	TMX9355 TR40979	KIT IMPELLER
TMX404	TJD9257 TAR101549 TR42406 TR43117 TR50410 TR61437	BEARING SEAL KIT GASKET GASKET GASKET GASKET	TMX135	TMX404 TR51682	KIT IMPELLER
			TMX137	TMX404 TR50411	KIT IMPELLER
TMX139	TJD9355 TAR62933 TR42406 TR50410	BEARING SEAL KIT GASKET GASKET	TMX140	TMX139 TR50411	KIT IMPELLER
TMX150	TJD9257 TAR101549 TR42406 TR61437	BEARING SEAL KIT GASKET GASKET	TRE10967	TMX150 TR77388	KIT IMPELLER

500 SERIES WATER PUMP KITS ARE NOT AVAILABLE

Individual Water Pump Components Available from Maxiforce (Other than Gaskets)

TAR101549	SEAL KIT (WITH FITTING TOOL)	TR40979	IMPELLER
TAR62933	SEAL KIT	TR47191	IMPELLER
TJD7686	BEARING	TR50411	IMPELLER
TJD8643	BEARING	TR51682	IMPELLER
TJD9212	BEARING	TR56812	IMPELLER
TJD9257	BEARING	TR77388	IMPELLER
TJD9355	BEARING	TR94419	IMPELLER (PLASTIC)
TJD9398	BEARING	TT30897	IMPELLER (CAST)
TJD9448	BEARING		

Engine Torque Specifications

			
ENGINE MODEL	CRANKSHAFT MAIN BEARING CAP BOLTS	CONROD BOLTS	CYLINDER HEAD BOLTS
3152, 3164, 3179, 4202, 4219, 4239, 6303, 6329, 6359	85 Lb.-ft.	55 Lb.-ft.	See John Deere service manual for your application
4276, 6414	85 Lb.-ft.	95 Lb.-ft.	See John Deere service manual for your application
3029, 4039, 6059	Dubuque (T0) built engines serial # up to 419999 / 85 Lb.-ft. serial # 420000 and after / 110 Lb.-ft. Saran (CD) built engines serial # up to 135640 / 85 Lb.-ft. serial # 135641 and after / 110 Lb.-ft.	40 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 minutes. step 4 - turn an additional 60°.
4045, 6068	Dubuque (T0) built engines serial # up to 419999 / 85 Lb.-ft. serial # 420000 and after / 110 Lb.-ft. Saran (CD) built engines serial # up to 135640 / 85 Lb.-ft. serial # 135641 and after / 110 Lb.-ft.	50 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 minutes step 4 - turn an additional 60°
4270, 6404, 6466, 6076	150 Lb.-ft.	55 Lb.-ft. plus an additional 90°	See John Deere service manual for your application
6531	210 Lb.-ft.	55 Lb.-ft. plus an additional 90°	185 Lb.-ft.
6619, 6101	210 Lb.-ft.	55 Lb.-ft. plus an additional 90°	150 Lb.-ft. plus an additional 90°
Power Tech 3029	100 Lb.-ft.	40 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 minutes step 4 - turn an additional 60°
Power Tech 4045, 6068	100 Lb.-ft.	43 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 minutes step 4 - turn an additional 60°
Power Tech 6081	170 Lb.-ft.	Tongue and Groove Style Connecting Rods 55 Lb.-ft. plus an additional 90°	See John Deere service manual for your application
		Fractured Split Style Connecting Rods 71 Lb.-ft. plus an additional 90°	

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Introduction to Cummins® Section

Cummins® B and C (Mid-Range) / CDC Family I and Family II

Diesel Engine Models covered by this catalog

ENGINE MODEL	CDC MODEL	NUMBER OF CYLINDERS	BORE DIAMETER mm / In
4B 3.9	4.390 Family I	4	102 / 4.016
4BT 3.9	4.390 Family I	4	102 / 4.016
4BTA 3.9	4.390 Family I	4	102 / 4.016
6B 5.9	6.590 Family I	6	102 / 4.016
6BT 5.9	6.590 Family I	6	102 / 4.016
6BTA 5.9	6.590 Family I	6	102 / 4.016
6BTA 5.9 ISB	6.590 Family I	6	102 / 4.016
6CT 8.3	6.830 Family II	6	114 / 4.484
6CTA 8.3	6.830 Family II	6	114 / 4.484

Maxiforce Engine Kit Composition for Cummins® (B & C) Engine Applications

B Series (Family I) - 4 & 6 Cyl

Piston Kits Include: Piston, Piston Pin, Piston Rings and Retainers

COK: Engine Overhaul Kits Include: All Piston Kits, Main and Con Rod Bearings, Crankshaft Seals, Top and Bottom Gasket Sets, Piston and Camshaft Bushings. You may order std or oversize pistons.

i.e.: COK____ / 4 or COK____ / 4

↓ ↓ ↓ ↓

Kit No No of Kit No No of
Cyl Cyl

CIK: Engine In-Frame Kits Include: All Piston Kits, Main and Con Rod Bearings, Top Gasket Set and Oil Pan Gasket.

C Series (Family II) - 6 Cyl

COK: Engine Overhaul Kits Include: All Cylinder Kits, Main and Con Rod Bearings, Front and Rear Crankshaft Seals, Top and Bottom Gasket Sets, Piston and Cam bushing.

CIK: Engine In-Frame Kits Include: All Cylinder Kits, Main and Con Rod Bearings, Top Gasket Set and Oil Pan Gasket.

Engine Models Cover by this Catalog

ENGINE MODEL	COMMENTS	PAGE
4BT 3.9	8 Valves Piston 7163 Grade A	C01
4BTA 3.9	8 Valves Piston 7156 Grade A	C02
4B 3.9	8 Valves Piston 6223 Grade A	C03
4BT 3.9	8 Valves Piston 6632 Grade A	C04
4BTA 3.9	8 Valves Piston 9041 Grade A	C05
4BTA 3.9	8 Valves Piston 8673 Grade A	C06
4BT 3.9	8 Valves Piston 0187 Grade A	C07
6BT 5.9	12 Valves Piston 7163 Grade A	C08
6BTA 5.9	12 Valves Piston 7156 Grade A	C09
6B 5.9	12 Valves Piston 6223 Grade A	C10
6BT 5.9	12 Valves Piston 1400 Grade A	C11
6BT 5.9	12 Valves Piston 6632 Grade A	C12
6BTA 5.9	12 Valves Piston 2571 Grade A	C13
6BTA 5.9	12 Valves Piston 7619 Grade A	C14
6BTA 5.9	12 Valves Piston 9041 Grade A	C15

ENGINE MODEL	COMMENTS	PAGE
6BTA 5.9	12 Valves Piston 8673 Grade A	C16
6BTA 5.9	12 Valves Piston 0187 Grade A	C17
6BTA 5.9 ISB	24 Valves Piston 6153 Grade A	C18
6BTA 5.9 ISB	24 Valves Piston 6050 Grade A	C19
4BT 4.5 QSB	16 Valves Piston 4860 Grade A	C20
6BT 5.9 QSB	12 Valves Piston 7416 Grade A	C21
6BT 6.7 QSB	24 Valves Piston 4860 Grade A	C22
6CT 8.3	12 Valves Piston Grade A	C23
6CTA 8.3	12 Valves Piston Grade A	C24
6CT 8.3	12 Valves Piston Grade A	C25
6CT 8.3	12 Valves Piston 7707 Grade A	C26
6CT 8.3	12 Valves Piston 9566 Grade A	C27
6CTA 8.3	12 Valves Piston 9161 Grade A	C28
6CTA 8.3	12 Valves Piston 9247 Grade A	C29
6CTA 8.3	12 Valves Piston 5878 Grade A	C30

Engine Application Chart by CPL (Control Parts List)

** Use CPL Application Chart for Quick Reference Only, MUST CONFIRM all parts by Engine Serial Number **

This chart offers CPL's (Control Parts List) for Cummins branded engines and for CDC branded engines used by Case industrial equipment and Case-IH agricultural equipment.

The charts gives the listing of CPL numbers available with Maxiforce and will indicate the page number to the corresponding engine.

When using the chart for Case and Case-IH (CDC engines) the reader will refer to the equipment models available and the corresponding page will be indicated.

CPL	ENGINE MODEL	PAGE
591 Marine	4B 3.9 (4.390)	C03
594	4BTA 3.9 (4.390)	C02
595	4BTA 3.9 (4.390)	C02
596	6B 5.9 (6.590)	C10
597	6BT 5.9 (6.590)	C08
599	6BTA 5.9 (6.590)	C09
600	6BTA 5.9 (6.590)	C09
602	6CT 8.3 (6.830)	C23
603	6CT 8.3 (6.830)	C23
604	6CTA 8.3 (6.830)	C24
681	4B 3.9 (4.390)	C03
690	4BT 3.9 (4.390)	C01
691	6B 5.9 (6.590)	C10
692	6BT 5.9 (6.590)	C08
696	4BTA 3.9 (4.390)	C02
698	6BTA 5.9 (6.590)	C09
710	4BTA 3.9 (4.390)	C02
711	4BTA 3.9 (4.390)	C02

CPL	ENGINE MODEL	PAGE
712	6BTA 5.9 (6.590)	C09
714 Marine	6B 5.9 (6.590)	C10
715	6BTA 5.9 (6.590)	C09
716	6BT 5.9 (6.590)	C08
721 Marine	4B 3.9 (4.390)	C03
725	4B 3.9 (4.390)	C03
727	4BT 3.9 (4.390)	C01
729	6BT 5.9 (6.590)	C08
730	4BT 3.9 (4.390)	C01
741 Marine	4BTA 3.9 (4.390)	C02
742 Marine	6BTA 5.9 (6.590)	C09
753	6CT 8.3 (6.830)	C23
754	6CTA 8.3 (6.830)	C24
755	6CTA 8.3 (6.830)	C24
761	6BT 5.9 (6.590)	C08
762	4BT 3.9 (4.390)	C01
763	4BT 3.9 (4.390)	C01
791	4B 3.9 (4.390)	C03

CPL	ENGINE MODEL	PAGE
791 Marine	6B 5.9 (6.590)	C10
792	6BTA 5.9 (6.590)	C09
802	6B 5.9 (6.590)	C10
804	6BT 5.9 (6.590)	C08
807	6BT 5.9 (6.590)	C08
817	4BT 3.9 (4.390)	C01
819	6CT 8.3 (6.830)	C23
826	4BTA 3.9 (4.390)	C02
828	6CT 8.3 (6.830)	C23
830	6CTA 8.3 (6.830)	C24
834	6BTA 5.9 (6.590)	C09
843	4B 3.9 (4.390)	C03
845	6B 5.9 (6.590)	C10
856	6BT 5.9 (6.590)	C08
857	4BT 3.9 (4.390)	C01
858	4BT 3.9 (4.390)	C01
893	6CTA 8.3 (6.830)	C24
895	4B 3.9 (4.390)	C03

Engine Application Chart by CPL (Control Parts List)

CPL	ENGINE MODEL	PAGE	CPL	ENGINE MODEL	PAGE	CPL	ENGINE MODEL	PAGE
912	6BTA 5.9 (6.590)	C09	1268	4BT 3.9 (4.390)	C01	1603	6CT 8.3 (6.830)	C23
937	4BTA 3.9 (4.390)	C02	1270	6CTA 8.3 (6.830)	C24	1612	6CTA 8.3 (6.830)	C24
938	6BT 5.9 (6.590)	C08	1273	6CTA 8.3 (6.830)	C24	1613 Marine	6BT 5.9 (6.590)	C11
940	6BTA 5.9 (6.590)	C09	1274	6CT 8.3 (6.830)	C23	1615	6CT 8.3 (6.830)	C26
943	6BT 5.9 (6.590)	C08	1275	6CT 8.3 (6.830)	C23	1618	6CT 8.3 (6.830)	C26
947	6BT 5.9 (6.590)	C08	1277	4BT 3.9 (4.390)	C01	1627	6BT 5.9 (6.590)	C08
948	6BT 5.9 (6.590)	C08	1278	4BTA 3.9 (4.390)	C02	1631	4BT 3.9 (4.390)	C01
949	6BT 5.9 (6.590)	C08	1279	6BT 5.9 (6.590)	C08	1633	6CTA 8.3 (6.830)	C24
950	6BT 5.9 (6.590)	C08	1281	6CT 8.3 (6.830)	C23	1638	6BT 5.9 (6.590)	C11
953 Marine	6BT 5.9 (6.590)	C11	1282 Marine	6CT 8.3 (6.830)	C27	1659	4BT 3.9 (4.390)	C01
954	6CT 8.3 (6.830)	C25	1287	4BT 3.9 (4.390)	C01	1668	6CT 8.3 (6.830)	C26
955	6CT 8.3 (6.830)	C23	1288	6BT 5.9 (6.590)	C08	1684	6CTA 8.3 (6.830)	C29
959	6CTA 8.3 (6.830)	C24	1289 Marine	6BT 5.9 (6.590)	C08	1685	6BT 5.9 (6.590)	C08
960	6B 5.9 (6.590)	C10	1312	4B 3.9 (4.390)	C03	1804	6CTA 8.3 (6.830)	C24
961	4BTA 3.9 (4.390)	C02	1313	6BT 5.9 (6.590)	C11	1815	6BTA 5.9 (6.590)	C13
961	6BTA 5.9 (6.590)	C09	1320	6B 5.9 (6.590)	C10	1816	6BTA 5.9 (6.590)	C13
962	6BTA 5.9 (6.590)	C09	1321	6CTA 8.3 (6.830)	C24	1826	6CTA 8.3 (6.830)	C24
970 Marine	6BT 5.9 (6.590)	C11	1322 Marine	6BT 5.9 (6.590)	C11	1839 Auto	4BT 3.9 (4.390)	C04
971	4BT 3.9 (4.390)	C01	1351	6BTA 5.9 (6.590)	C15	1845	6CTA 8.3 (6.830)	C28
981	4B 3.9 (4.390)	C03	1366	6CT 8.3 (6.830)	C27	1846	6CTA 8.3 (6.830)	C28
983	6BTA 5.9 (6.590)	C09	1371	6CTA 8.3 (6.830)	C29	1863	6BTA 5.9 (6.590)	C13
984	6CTA 8.3 (6.830)	C24	1372	6CTA 8.3 (6.830)	C29	1888 Auto	6BT 5.9 (6.590)	C12
985	6CT 8.3 (6.830)	C23	1377	6CTA 8.3 (6.830)	C24	1889	6BTA 5.9 (6.590)	C17
986	4BTA 3.9 (4.390)	C05	1399	6CT 8.3 (6.830)	C25	1895 Auto	6BT 5.9 (6.590)	C12
987	6BTA 5.9 (6.590)	C14	1403	6B 5.9 (6.590)	C10	1901	6BTA 5.9 (6.590)	C13
994	6BT 5.9 (6.590)	C08	1406	6CT 8.3 (6.830)	C26	1902	6BTA 5.9 (6.590)	C16
998	6BTA 5.9 (6.590)	C09	1422	6BTA 5.9 (6.590)	C14	1903	6CTA 8.3 (6.830)	C24
999	6B 5.9 (6.590)	C10	1433	6B 5.9 (6.590)	C10	1914 Auto	6BT 5.9 (6.590)	C12
1160	6BT 5.9 (6.590)	C08	1435	6CT 8.3 (6.830)	C25	1915 Auto	6BT 5.9 (6.590)	C12
1163	6BT 5.9 (6.590)	C08	1440	6BT 5.9 (6.590)	C08	1916 Auto	6BT 5.9 (6.590)	C12
1165	6BT 5.9 (6.590)	C11	1508	4BT 3.9 (4.390)	C01	1917	6CTA 8.3 (6.830)	C30
1168	6BT 5.9 (6.590)	C08	1518	6BTA 5.9 (6.590)	C09	1920	6CTA 8.3 (6.830)	C30
1172	4B 3.9 (4.390)	C03	1519	6BTA 5.9 (6.590)	C09	1923	6CTA 8.3 (6.830)	C30
1173	4BTA 3.9 (4.390)	C02	1520	4BTA 3.9 (4.390)	C02	1928 Marine	6BT 5.9 (6.590)	C11
1174	6BTA 5.9 (6.590)	C09	1521	4BTA 3.9 (4.390)	C02	1929 Marine	6CT 8.3 (6.830)	C27
1189	6BT 5.9 (6.590)	C08	1522	4B 3.9 (4.390)	C03	1932	4B 3.9 (4.390)	C03
1201	4BT 3.9 (4.390)	C01	1523	6BTA 5.9 (6.590)	C09	1943	6CTA 8.3 (6.830)	C28
1202	4BT 3.9 (4.390)	C01	1524	6BTA 5.9 (6.590)	C09	1948	6BTA 5.9 (6.590)	C16
1207	6BT 5.9 (6.590)	C08	1525	4BTA 3.9 (4.390)	C02	1949	6CTA 8.3 (6.830)	C28
1209	6BTA 5.9 (6.590)	C09	1526	4BTA 3.9 (4.390)	C02	1959	6BTA 5.9 (6.590)	C13
1212	6CTA 8.3 (6.830)	C24	1527	6BTA 5.9 (6.590)	C14	1961	6BTA 5.9 (6.590)	C16
1221	6CT 8.3 (6.830)	C27	1539	6CTA 8.3 (6.830)	C24	1962	6BTA 5.9 (6.590)	C16
1222	6CTA 8.3 (6.830)	C24	1547	6CTA 8.3 (6.830)	C24	1963	4B 3.9 (4.390)	C07
1245	6BT 5.9 (6.590)	C08	1549	6BTA 5.9 (6.590)	C13	1965	4BTA 3.9 (4.390)	C06
1246	6BT 5.9 (6.590)	C08	1550	6BTA 5.9 (6.590)	C13	1966	4BTA 3.9 (4.390)	C06
1247 Marine	6BT 5.9 (6.590)	C11	1551 Auto	6BT 5.9 (6.590)	C12	1967	4BTA 3.9 (4.390)	C06
1248	6CT 8.3 (6.830)	C23	1552 Auto	6BT 5.9 (6.590)	C12	1968	6BTA 5.9 (6.590)	C13
1259	4B 3.9 (4.390)	C03	1553 Auto	6BT 5.9 (6.590)	C12	1972	6CTA 8.3 (6.830)	C30
1260	4BTA 3.9 (4.390)	C05	1563	6CTA 8.3 (6.830)	C30	2000 Auto	6BT 5.9 (6.590)	C12
1261	6BTA 5.9 (6.590)	C14	1569	6CTA 8.3 (6.830)	C30	2001 Auto	4BT 3.9 (4.390)	C04
1262	6CT 8.3 (6.830)	C26	1570 Marine	6BT 5.9 (6.590)	C11	2007	6CTA 8.3 (6.830)	C28
1263	6CT 8.3 (6.830)	C26	1579	6BTA 5.9 (6.590)	C15	2014	6BTA 5.9 (6.590)	C16
1266	6BT 5.9 (6.590)	C08	1581	6BTA 5.9 (6.590)	C09	2015	6BTA 5.9 (6.590)	C16

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CPL	ENGINE MODEL	PAGE
2016	6BTA 5.9 (6.590)	C16
2018	6CTA 8.3 (6.830)	C30
2021	4BT 3.9 (4.390)	C01
2022 Auto	6BTA 5.9 (6.590)	C13
2023 Auto	6BTA 5.9 (6.590)	C13
2024	6BTA 5.9 ISB	C18
2028	6CTA 8.3 (6.830)	C29
2049	6BT 5.9 (6.590)	C08
2050	6BTA 5.9 (6.590)	C09
2054	6CTA 8.3 (6.830)	C24
2055	6CTA 8.3 (6.830)	C28
2056	6CTA 8.3 (6.830)	C28
2057	6CTA 8.3 (6.830)	C28
2060	6CTA 8.3 (6.830)	C28
2061	6CTA 8.3 (6.830)	C28
2062	6CTA 8.3 (6.830)	C28
2063	6BTA 5.9 (6.590)	C17
2071	6BTA 5.9 (6.590)	C16
2076	6BTA 5.9 ISB	C18
2077	6BTA 5.9 ISB	C18
2082	6CTA 8.3 (6.830)	C28
2098	6BTA 5.9 ISB	C18
2100	6CT 8.3 (6.830)	C26
2101	6CTA 8.3 (6.830)	C30
2103	6CTA 8.3 (6.830)	C30
2106	6CTA 8.3 (6.830)	C30
2108	6CTA 8.3 (6.830)	C30
2109	4BTA 3.9 (4.390)	C06
2118	6CTA 8.3 (6.830)	C28
2120	6CTA 8.3 (6.830)	C28
2122	6BTA 5.9 (6.590)	C16
2142	4BTA 3.9 (4.390)	C06
2144	4BTA 3.9 (4.390)	C06
2146	6BTA 5.9 (6.590)	C16
2172 Marine	6CT 8.3 (6.830)	C27
2174	6BTA 5.9 (6.590)	C13
2175 Auto	6BT 5.9 (6.590)	C12
2185	6CTA 8.3 (6.830)	C28
2193	6CTA 8.3 (6.830)	C30
2194	6CTA 8.3 (6.830)	C30
2195 Auto	4BT 3.9 (4.390)	C04
2196	6CTA 8.3 (6.830)	C30
2216	6CTA 8.3 (6.830)	C28
2218	6CTA 8.3 (6.830)	C28
2243 Auto	6BT 5.9 (6.590)	C12
2249 Auto	6BT 5.9 (6.590)	C12
2252 Auto	6BT 5.9 (6.590)	C12
2253 Auto	6BT 5.9 (6.590)	C12
2264	4B 3.9 (4.390)	C07
2265	6BTA 5.9 (6.590)	C13
2268	6BTA 5.9 (6.590)	C13
2292	6BTA 5.9 (6.590)	C13
2296	6BTA 5.9 (6.590)	C16

CPL	ENGINE MODEL	PAGE
2302	4BTA 3.9 (4.390)	C06
2303	6BTA 5.9 (6.590)	C16
2304 Auto	4BT 3.9 (4.390)	C04
2305 Auto	6BT 5.9 (6.590)	C12
2307	6CTA 8.3 (6.830)	C30
2308	6BTA 5.9 (6.590)	C13
2340	4BT 3.9 (4.390)	C01
2346	6BTA 5.9 (6.590)	C13
2347 Auto	6BT 5.9 (6.590)	C12
2349	6BTA 5.9 (6.590)	C13
2351	4BTA 3.9 (4.390)	C06
2359	4BTA 3.9 (4.390)	C06
2367	6CT 8.3 (6.830)	C26
2368	6CT 8.3 (6.830)	C26
2372	6BTA 5.9 (6.590)	C16
2373	6BTA 5.9 (6.590)	C16
2377	4BTA 3.9 (4.390)	C02
2380	6CTA 8.3 (6.830)	C24
2381	6CTA 8.3 (6.830)	C29
2383	6CTA 8.3 (6.830)	C29
2413	6BT 5.9 (6.590)	C08
2414	4BT 3.9 (4.390)	C01
2415	6BTA 5.9 ISB	C19
2417	6BTA 5.9 (6.590)	C16
2446	6BTA 5.9 ISB	C18
2447	6BTA 5.9 ISB	C18
2448	6BTA 5.9 ISB	C18
2478	4BTA 3.9 (4.390)	C06
2479	6BTA 5.9 (6.590)	C17
2495	6BTA 5.9 ISB	C19
2496	6BTA 5.9 ISB	C18
2497	6BTA 5.9 ISB	C18
2498	6BTA 5.9 ISB	C18
2512	6BTA 5.9 ISB	C18
2513	6BTA 5.9 ISB	C18
2514	6BTA 5.9 ISB	C18
2515	6BTA 5.9 ISB	C18
2516	6BTA 5.9 ISB	C18
2517	6BTA 5.9 ISB	C18
2518	6BTA 5.9 ISB	C18
2519	6BTA 5.9 ISB	C18
2528	4BTA 3.9 (4.390)	C06
2530	6BTA 5.9 (6.590)	C09
2531	6CT 8.3 (6.830)	C26
2532	6CTA 8.3 (6.830)	C30
2538	6BTA 5.9 (6.590)	C16
2556	6CTA 8.3 (6.830)	C30
2569	6BTA 5.9 ISB	C18
2570	6BTA 5.9 ISB	C18
2571	6BTA 5.9 ISB	C18
2595	6BTA 5.9 ISB	C18
2596	6BTA 5.9 ISB	C18
2597	6BTA 5.9 ISB	C18

CPL	ENGINE MODEL	PAGE
2616	6BTA 5.9 ISB	C18
2617	6BTA 5.9 ISB	C18
2618	6BTA 5.9 ISB	C18
2619	6BTA 5.9 ISB	C18
2623	4BTA 3.9 (4.390)	C06
2642	6CTA 8.3 (6.830)	C28
2660	6BTA 5.9 ISB	C18
2661	6BTA 5.9 ISB	C18
2662	6BTA 5.9 ISB	C18
2663	6BTA 5.9 ISB	C18
2672	4BTA 3.9 (4.390)	C06
2685	6BTA 5.9 ISB	C18
2686	6BTA 5.9 ISB	C18
2687	6BTA 5.9 ISB	C18
2808	4BTA 3.9 (4.390)	C06
2833	6CTA 8.3 (6.830)	C28
2857	4BTA 3.9 (4.390)	C06
2865	6BTA 5.9 ISB	C18
2868	6BTA 5.9 (6.590)	C16
2874	6CTA 8.3 (6.830)	C28
2881	4BTA 3.9 (4.390)	C06
2891	6BTA 5.9 (6.590)	C09
2894	6CTA 8.3 (6.830)	C28
2902	6BTA 5.9 ISB	C18
2903	6BTA 5.9 ISB	C18
2904	6BTA 5.9 ISB	C18
2905	6BTA 5.9 ISB	C18
2906	6BTA 5.9 ISB	C19
2907	6BTA 5.9 ISB	C19
2960	6CT 8.3 (6.830)	C27
2995	6CT 8.3 (6.830)	C26
2996	6CT 8.3 (6.830)	C26
8030	6BTA 5.9 ISB	C18
8031	6BTA 5.9 ISB	C18
8032	6BTA 5.9 ISB	C18
8033	6BTA 5.9 ISB	C18
8034	6BTA 5.9 ISB	C19
8035	6BTA 5.9 ISB	C19
8085	6BTA 5.9 (6.590)	C17
8089	6CT 8.3 (6.830)	C27
8108	6BTA 5.9 (6.590)	C17
8146	6CT 8.3 (6.830)	C26
8186	6BT 5.9 QSB	C21
8187	6BT 5.9 QSB	C21
8208	6BTA 5.9 (6.590)	C17
8217	6BT 5.9 QSB	C21
8236	6BT 5.9 QSB	C21
8237	6BT 5.9 QSB	C21
8238	6BT 5.9 QSB	C21
8276	6BT 5.9 QSB	C21
8296	6BT 5.9 QSB	C21
8298	6BT 5.9 QSB	C21
8300	6BT 5.9 QSB	C21

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CPL	ENGINE MODEL	PAGE	CPL	ENGINE MODEL	PAGE	CPL	ENGINE MODEL	PAGE
8304	6BT 5.9 QSB	C21	8733	6BT 6.7 QSB	C22	41700	4BT 4.5 QSB	C20
8305	6BT 5.9 QSB	C21	8754	4BT 4.5 QSB	C20	41701	4BT 4.5 QSB	C20
8306	6BT 5.9 QSB	C21	8755	4BT 4.5 QSB	C20	41703	4BT 4.5 QSB	C20
8339	6BT 5.9 QSB	C21	8756	4BT 4.5 QSB	C20	42605	6BT 6.7 QSB	C22
8340	6BT 5.9 QSB	C21	9803	6CTA 8.3 (6.830)	C24	42743	4BT 4.5 QSB	C20
8341	6BT 5.9 QSB	C21	9820	6CT 8.3 (6.830)	C23	42827	6BT 6.7 QSB	C22
8400	6BT 5.9 QSB	C21	9883	6CTA 8.3 (6.830)	C24	43068	6BT 6.7 QSB	C22
8428	6BT 5.9 QSB	C21	40426	6BT 6.7 QSB	C22	43172	4BT 4.5 QSB	C20
8466	6BT 6.7 QSB	C22	40427	6BT 6.7 QSB	C22	43293	6BTA 6.7 QSB	C22
8485	6BT 5.9 QSB	C21	40656	6BT 6.7 QSB	C22	43460	6BT 6.7 QSB	C22
8487	6BT 5.9 QSB	C21	40568	6BT 5.9 QSB	C21	43858	6BT 6.7 QSB	C22
8488	6BT 5.9 QSB	C21	41100	4BT 4.5 QSB	C20	43859	6BT 6.7 QSB	C22
8553	6BT 5.9 QSB	C21	41452	6BT 6.7 QSB	C22	43861	6BT 6.7 QSB	C22
8554	6BT 5.9 QSB	C21	41472	4BT 4.5 QSB	C20	43862	6BT 6.7 QSB	C22
8610	6BT 6.7 QSB	C22	41584	6BT 6.7 QSB	C22	44195	4BT 4.5 QSB	C20
8611	6BT 6.7 QSB	C22	41586	6BT 6.7 QSB	C22			
8615	6BT 6.7 QSB	C22	41610	6BT 6.7 QSB	C22			
8725	4BT 4.5 QSB	C20	41629	6BT 6.7 QSB	C22			

Equipment Application Chart

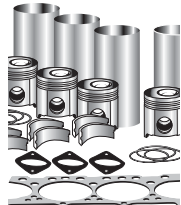
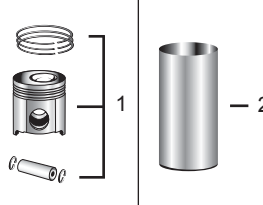
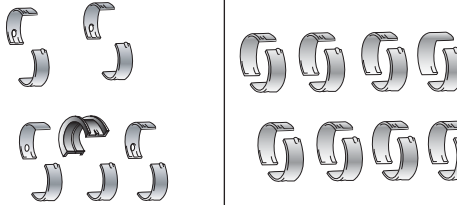
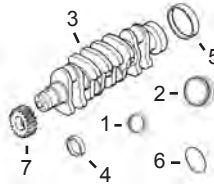
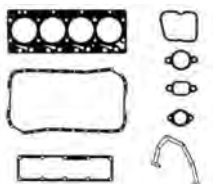
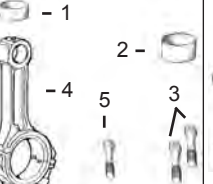
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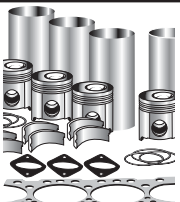
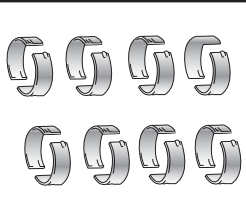
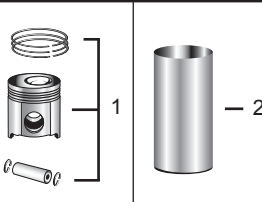
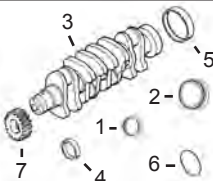
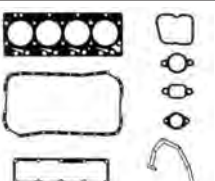
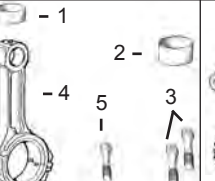
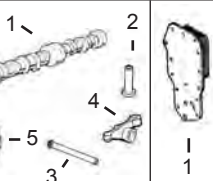
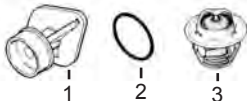
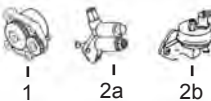
MODEL	DESCRIPTION	COMMENTS	PAGE	MODEL	DESCRIPTION	COMMENTS	PAGE
1640	Combine	PIN: JJC0034705 >	C09	5240	Tractor		C08
1644	Combine	ESN 44937696 >	C09	5250	Tractor		C08
1660	Combine		C25	6000	Windrower		C03
1666	Combine	ESN 44706126 >	C25	6500	Windrower		C03
1670	Combine	ESN > 44706125	C25	6590	Tractor		C02
1670	Combine	ESN 44706126 >	C26	7110	Tractor		C25
1680	Combine	ESN > 44706125	C25	7120	Tractor		C25
1680	Combine	ESN 44706126 >	C26	7130	Tractor		C25
1688	Combine		C26	7140	Tractor	ESN > 44706125	C25
1800	Cotton Harvester		C02	7140	Tractor	ESN 44706126 >	C26
1822	Cotton Picker	PIN: JJC0012691 >	C09	7150	Tractor	ESN > 44706125	C25
1844	Cotton Picker	PIN JJ002462 >	C26	7150	Tractor	ESN 44706126 >	C26
1896	Tractor		C08	7210	Tractor		C25
2022	Cotton Picker		C09	7220	Tractor	PIN > JJA0064978	C25
2044	Cotton Picker	ESN > 44706125	C25	8820	Windrower		C03
2044	Cotton Picker	ESN 44706126 >	C26	8830	Windrower		C03
2055	Cotton Picker		C26	8840	Windrower		C01
2096	Tractor		C09	8860	Windrower		C06
2155	Cotton Picker	PIN > JJC0156230	C26	8870	Windrower		C06
2166	Combine	PIN > JJC0180000	C25	9110	Tractor	ESN > 44706125	C25
2188	Combine	PIN > JJC0191483	C26	9130	Tractor	ESN > 44706125	C25
5120	Tractor	PISTON (m) 7163	C01	9210	Tractor		C25
5120	Tractor	PISTON (m) 7156	C02	9230	Tractor	ESN > 44706125	C25
5130	Tractor		C10	9230	Tractor	ESN 44706126 >	C26
5140	Tractor		C08	9240	Tractor		C25
5150	Tractor		C02	9240	Tractor	ESN 44706126 >	C26
5220	Tractor		C01	9310	Tractor	PIN > JEE0036001	C25
5230	Tractor		C10	9330	Tractor		C26

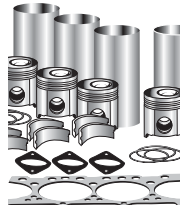
Equipment Application Chart

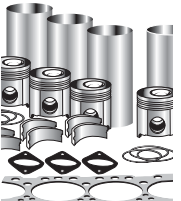
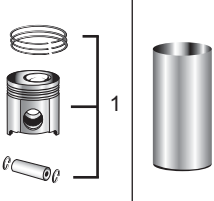
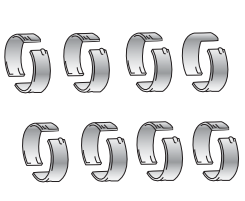
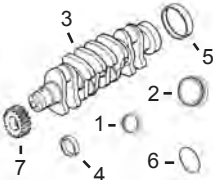
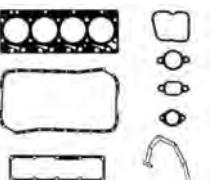
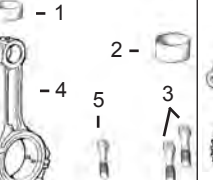
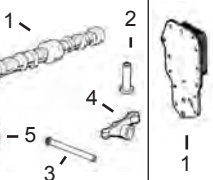
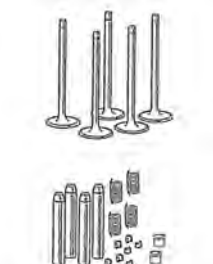
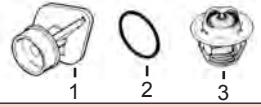
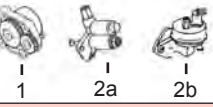
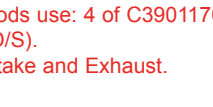
CASE (Construction)

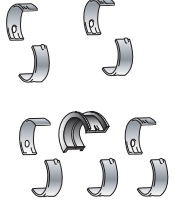
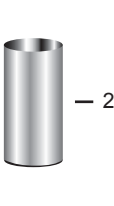
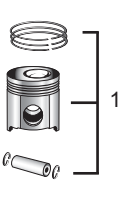
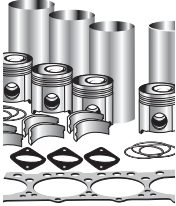
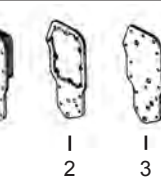
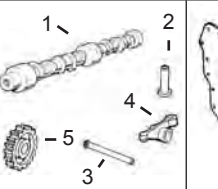
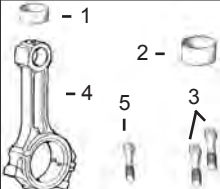
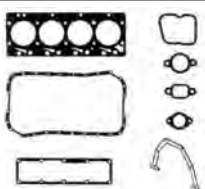
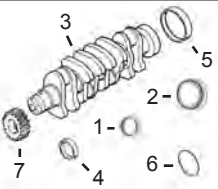
MODEL	DESCRIPTION	COMMENTS	PAGE	MODEL	DESCRIPTION	COMMENTS	PAGE
450C	Crawler	PISTON (m) 7163	C01	850E	Crawler	PISTON (m) 6223	C10
450C	Crawler	PISTON (m) 6223	C03	855D	Crawler	PISTON (m) 7163	C08
455C	Crawler	PISTON (m) 7163	C01	855D	Crawler	PISTON (m) 6223	C10
455C	Crawler	PISTON (m) 6223	C03	855E	Crawler	PISTON (m) 7163	C08
480E	Backhoe		C03	855E	Crawler	PISTON (m) 6223	C10
480E LL	Backhoe		C03	855G	Crawler	PISTON (m) 7163	C08
480F	Backhoe	PISTON (m) 6223	C03	860	Trencher		C01
480F LL	Backhoe	PISTON (m) 6223	C03	880D	Crawler		C08
550	Crawler	PISTON (m) 7163	C01	888	Excavator		C08
550	Crawler	PISTON (m) 6223	C03	1085B	Excavator		C08
550E	Crawler	PISTON (m) 7163	C01	1085C	Excavator		C08
550E	Crawler	PISTON (m) 6223	C03	1086B	Excavator		C08
550G	Crawler	PISTON (m) 7163	C01	1088	Excavator		C08
570 LXT	Series 2	PISTON (m) 8673	C06	1150E	Excavator		C08
570LXT	Backhoe	PISTON (m) 7163	C01	1150E	Crawler		C25
580K	Backhoe	PISTON (m) 7163	C01	1150G	Excavator		C08
580K	Backhoe	PISTON (m) 6223	C03	1155E	Excavator		C08
580L	Backhoe	PISTON (m) 7163	C01	1155E	Crawler		C25
580L	Series 2	PISTON (m) 8673	C06	1187C	Excavator	ESN > 44706125	C25
580SE	Backhoe	PISTON (m) 7163	C01	1550	Crawler	ESN > 44706125	C25
580SE	Backhoe	PISTON (m) 6223	C03	1840	Skid Steer Loader		C03
580SK	Backhoe	PISTON (m) 7163	C01	1845C	Early Skid Steer Loader		C03
580SK	Backhoe	PISTON (m) 6223	C03	8850	Windrower		C08
580SL	Backhoe		C01	9010	Crawler		C01
584E	Forklift		C03	9010B	Excavator	PIN > DAC01#2001	C02
585E	Forklift		C03	9010B	Excavator	PIN > DAC01#2001	C06
586E	Forklift		C03	9020	Excavator	PIN > DAC01#2001	C02
590SL	Backhoe	PISTON (m) 7163	C01	9020B	Excavator	PIN > DAC01#2001	C06
590SL	Series 2	PISTON (m) 8673	C06	9030	Excavator		C08
621	Wheel Loader		C08	9030B	Excavator		C08
621B	Wheel Loader		C08	9040	Excavator		C25
650G	Crawler	PISTON (m) 7163	C01	9040B	Excavator	PIN > DAC4#2001	C25
650G	Crawler	PISTON (m) 8673	C06	90XT	Skid Loader	PIN > JAF 0245224	C06
660	Trencher		C03	95XT	Skid Loader	PIN > JAF 0237963	C06
688	Excavator		C01	W11B	Wheel Loader		C01
680K	Backhoe		C10	W14B	Wheel Loader	PISTON (m) 7163	C08
680L	Backhoe		C08	W14B	Wheel Loader	PISTON (m) 6223	C10
680L	Backhoe		C10	W14C	Wheel Loader	PISTON (m) 7163	C08
6830TA	Power Unit		C26	W14C	Wheel Loader	PISTON (m) 6223	C10
686G	Telescopic Handler		C06	W36	Loader		C25
686GXR	Telescopic Handler		C06				
721	Loader		C25				
721B	Loader	PIN > JEE053200	C25				
760	Trencher		C03				
780C	Backhoe		C08				
780D	Backhoe		C08				
821	Loader		C25				
821B	Loader	PIN > JEE050601	C25				
850D	Crawler	PISTON (m) 7163	C08				
850D	Crawler	PISTON (m) 6223	C10				
850E	Crawler	PISTON (m) 7163	C08				

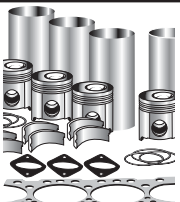
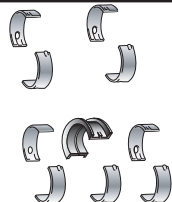
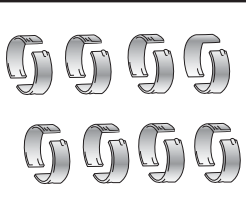
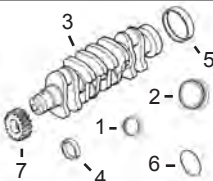
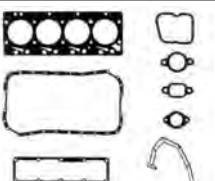
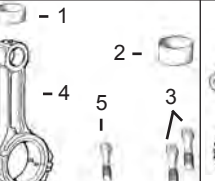
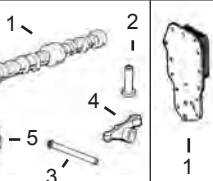
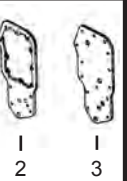
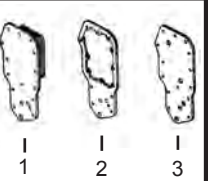
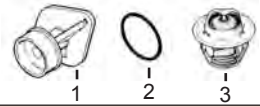
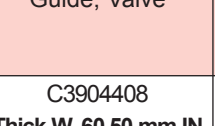
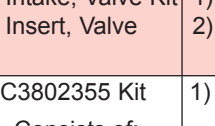
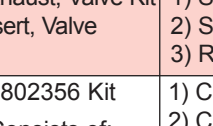
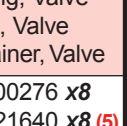
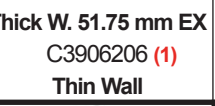
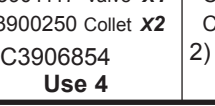
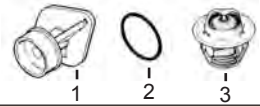
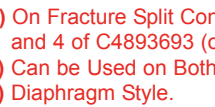
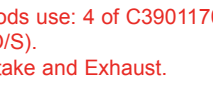
Engine Model CPL							
4BT 3.9 (CDC 4.390)		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
TURBOCHARGED		2) Repair Sleeve		Use 4		Use 1	
NON - EMISSION 239 Cubic Inch		COK2160/4 Std.		1) C3802160 Std.		C3802010 Std.	
Piston Std (m): 7163		COK2132/4 0.50 mm		C3802132 0.50 mm		C3802011 0.25 mm	
		COK2134/4 1.00 mm		C3802134 1.00 mm		C3802012 0.50 mm	
		COK2160F/4 Std.		Use 4		C3802013 0.75 mm	
		COK2132F/4 0.50 mm		2) C3904166		C3901170 Std.	
		COK2134F/4 1.00 mm				C3901171 0.25 mm	
		To order an In-Frame Kit change <u>OK</u> to <u>IK</u>				C3901172 0.50 mm	
						C3901173 0.75 mm	
						C4893693 Std.	
						C4892795 0.25 mm	
						C4892796 0.50 mm	
						C4892797 0.75 mm	
CUMMINS CPL's		* Piston Kit consists of:					
690 817 1202 1631		1) 1 C3907163 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.					
727 857 1268 1659		2) 1 C3908815 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.					
730 858 1277 2021		3) 1 C3908816 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.					
762 971 1287 2340							
763 1201 1508 2414							
CASE-IH (Agricultural)							
5120 Tractor		1) Front Seal		1) Top Gasket Set		1) Camshaft	
5220 "		2) Rear Seal		2) Bottom Gasket Set		2) Tappet	
8840 Windrower		3) Crankshaft		3) Head Gasket		3) Push Rod	
		4) Front Seal Sleeve		4) Oil Pan Gasket		4) Rocker Arms	
		5) Rear Seal Sleeve		5) Valve Cover Gsk		5) Camshaft Gear	
		6) Rectangular Seal		6) Gear Housing Gsk			
		7) Crankshaft, Gear		7) Rear Cover Gsk			
		1) C3904353		1) C3804896		1) C3925582 (9)	
		2) C3353978		2) C3802375		2) C3925031	
		3) C3907803		3) C3921393		3) C3904679	
		4) C3906080		4) C3931602		4) C3910811 x4	
		5) C3906081		5) C3902666		C3910810 x4	
		6) C3912473		6) C3916131		5) C3907431	
		7) C3901258		7) C3928493			

Engine Model CPL							
4BTA 3.9 (CDC 4.390)							
TURBOCHARGED AFTERCOOLED		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
NON - EMISSION		2) Repair Sleeve				Con Rod Bearing	
239 Cubic Inch		COK2100/4 Std.		1) C3802100 Std.		C3901170 Std.	
		COK2102/4 0.50 mm		C3802102 0.50 mm		C3901171 0.25 mm	
		COK2104/4 1.00 mm		C3802104 1.00 mm		C3901172 0.50 mm	
		COK2100F/4 Std.		Use 4		C3901173 0.75 mm	
		COK2102F/4 0.50 mm		2) C3904166		C4893693 Std.	
		COK2104F/4 1.00 mm		Use 1		C4892795 0.25 mm	
Piston Std (m): 7156		To order an In-Frame Kit change OK to IK				C4892796 0.50 mm	
						C4892797 0.75 mm	
* Piston Kit consists of:							
1) 1 C3907156 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret. 2) 1 C3907157 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret. 3) 1 C3907158 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.							
							
1) Front Seal		1) Top Gasket Set		1) Bushing, Piston		1) Oil Cooler 5 Plate	
2) Rear Seal		2) Bottom Gasket Set		2) Bushing, Cam		2) Oil Cooler Gasket	
3) Crankshaft 4) Front Seal Sleeve 5) Rear Seal Sleeve 6) Rectangular Seal 7) Crankshaft, Gear		3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk 6) Gear Housing Gsk 7) Rear Cover Gsk		3) Bolt, Con Rod 4) Con Rod 5) Bolt, Ex Manifold		3) Push Rod 4) Rocker Arms 5) Camshaft Gear	
1) C3904353 2) C3353978 3) C3907803 4) C3906080 5) C3906081 6) C3912473 7) C3901258		1) C3804896 2) C3802375 3) C3921393 4) C3931602 5) C3902666 6) C3916131 7) C3928493		1) C4891178 x4 2) C3901306 x1 (3) 3) C3900919 x8 4) C3901569 (7) C4943979 (8) 5) C3944593		1) C3925582 2) C3925031 3) C3904679 4) C3910811 x4 C3910810 x4 5) C3907431	
						1) C3921557 2) C3926760 3) C3929792	
CASE-IH (Agricultural)							
1800 Cotton Harvester 5120 Tractor 5150 " 6590 "							
CASE (Construction)							
9010B Excavator, (PIN: >DAC01#2001) 9020 Excavator, (PIN: >DAC01#2001)				Guide, Valve		1) Spring, Valve	
				C3904408 Thick W. 60.50 mm IN C3904409 Thick W. 51.75 mm EX C3906206 (1) Thin Wall		2) Seal, Valve 3) Retainer, Valve	
				1) Intake, Valve Kit 2) Insert, Valve		1) Exhaust, Valve Kit 2) Insert, Valve	
				1) C3802355 Kit Consists of: C3901117 Valve x1 C3900250 Collet x2 2) C3906854 Use 4		1) C3802356 Kit Consists of: C3901607 Valve x1 C3900250 Collet x2 2) C3904105 Use 4	
						1) C3900276 x8 2) C3921640 x8 (5) C3957912 x8 (6) 3) C3900299 x8 (5)	
						(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).	
1) Water Pump		1) Pump, Oil		1) Cylinder Head (With Valves)		(1) Can be Used on Both Intake and Exhaust.	
2) Water Pump Seal		2a) Lift Pump		2) Head Bolts		(2) Diaphragm Style.	
3) Thermostat		2b) Lift Pump				(3) For Storm blocks use C3940059.	
1) C3286277		1) C3926202		1) C3920005 (4)		(4) Do not use on Marine Engines.	
2) C3906698		2a) C3918000		2) C3920779 x4		(5) For use on engines prior to April, 2003.	
3) C3802273		2b) C3904374 (2)		C3920780 x10		(6) For use on engines from April, 2003, (Top Hat Style).	
						(7) Machine split connecting rod.	
						(8) Fracture split connecting rod.	
						(9) Use ESN or application model to confirm correct camshaft.	

Engine Model CPL							
4B 3.9 (CDC 4.390) NATURALLY ASPIRATED NON - EMISSION 239 Cubic Inch Piston Std (m): 6223		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
CUMMINS CPL's 591 * 843 1312 681 895 1522 721 * 981 1932 725 1172 791 1259 * Marine Application		COK2060/4 Std.		2) Repair Sleeve		Use 1	
		COK2062/4 0.50 mm		1) C3802060 Std.			
		COK2064/4 1.00 mm		C3802062 0.50 mm			
		COK2060F/4 Std.		C3802064 1.00 mm			
COK2062F/4 0.50 mm		Use 4		C3802010 Std.		C3901170 Std.	
COK2064F/4 1.00 mm		2) C3904166		C3802011 0.25 mm		C3901171 0.25 mm	
To order an In-Frame Kit change OK to IK				C3802012 0.50 mm		C3901172 0.50 mm	
				C3802013 0.75 mm		C3901173 0.75 mm	
						C4893693 Std.	
						C4892795 0.25 mm	
						C4892796 0.50 mm	
						C4892797 0.75 mm	

Engine Model CPL	   			
4BT 3.9				
TURBOCHARGED				
EMISSION 239 Cubic Inch				
Piston Std (m): 6632				
AUTOMOTIVE				
CUMMINS CPL's 1839 2001 2195 2304	Eng. O/H & I/F Kit	1) Piston Kit 2) Repair Sleeve	Main Bearing Set	Con Rod Bearing
	COK2562/4 Std.	1) C3802562 Std. C3802564 0.50 mm C3802565 1.00 mm Use 4 2) C3904166	C3802010 Std. C3802011 0.25 mm C3802012 0.50 mm C3802013 0.75 mm	C3901170 Std. C3901171 0.25 mm C3901172 0.50 mm C3901173 0.75 mm
	COK2564/4 0.50 mm			
	COK2565/4 1.00 mm			
	COK2562F/4 Std. ● COK2564F/4 0.50 mm ● COK2565F/4 1.00 mm ● To order an In-Frame Kit change OK to IK		Use 1	C4893693 Std. ● C4892795 0.25 mm ● C4892796 0.50 mm ● C4892797 0.75 mm ●
	* Piston Kit consists of: 2) 1 C3926632 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret. 2) 1 C3926634 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret. 2) 1 C3926635 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.			
				
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket Set	1) Bushing, Piston 2) Bushing, Cam	1) Camshaft 2) Tappet
	3) Crankshaft 4) Front Seal Sleeve 5) Rear Seal Sleeve 6) Rectangular Seal 7) Crankshaft, Gear	3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk 6) Gear Housing Gsk 7) Rear Cover Gsk	3) Bolt, Con Rod 4) Con Rod 5) Bolt, Ex Manifold	3) Push Rod 4) Rocker Arms 5) Camshaft Gear
	1) C3904353 2) C3353978 3) C3907803 4) C3906080 5) C3906081 6) C3912473 7) C3901258	1) C3804896 2) C3802375 3) C3921393 4) C3931602 5) C3902666 6) C3916131 7) C3928493	1) C4891178 x4 2) C3901306 x1 (3) 3) C3900919 x8 4) C3901569 (7) C4943979 (8) 5) C3944593	1) C3925582 (9) 2) C3925031 3) C3904679 4) C3910811 x4 C3910810 x4 5) C3907431
		Guide, Valve C3904408 Thick W. 60.50 mm IN C3904409 Thick W. 51.75 mm EX C3906206 (1) Thin Wall	1) Intake, Valve Kit 2) Insert, Valve 1) C3802355 Kit Consists of: C3901117 Valve x1 C3900250 Collet x2 2) C3906854 Use 4	1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802356 Kit Consists of: C3901607 Valve x1 C3900250 Collet x2 2) C3904105 Use 4
				
	1) Water Pump 2) Water Pump Seal 3) Thermostat	1) Pump, Oil 2a) Lift Pump 2b) Lift Pump	1) Cylinder Head (With Valves) 2) Head Bolts	1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve
	1) C3286277 2) C3906698 3) C3802273	1) C3926202 2a) C3918000 2b) C3904374 (2)	1) C3920005 (4) 2) C3920779 x4 C3920780 x10	1) C3900276 x8 2) C3921640 x8 (5) C3957912 x8 (6) 3) C3900299 x8 (5)
	(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S). (1) Can be Used on Both Intake and Exhaust. (2) Diaphragm Style. (3) For Storm blocks use C3940059. (4) Do not use on Marine Engines. (5) For use on engines prior to April, 2003. (6) For use on engines from April, 2003, (Top Hat Style). (7) Machine split connecting rod. (8) Fracture split connecting rod. (9) Use ESN or application model to confirm correct camshaft.			

Engine Model CPL 4BTA 3.9 TURBOCHARGED AFTERCOOLED EMISSION 239 Cubic Inch Piston Std (m): 9041	 Eng. O/H & I/F Kit 1) Piston Kit 2) Repair Sleeve 1) C3802248 Std. C3802249 0.50 mm C3802250 1.00 mm Use 4 2) C3904166 Main Bearing Set C3802010 Std. C3802011 0.25 mm C3802012 0.50 mm C3802013 0.75 mm Use 1 Con Rod Bearing C3901170 Std. C3901171 0.25 mm C3901172 0.50 mm C3901173 0.75 mm C4893693 Std. C4892795 0.25 mm C4892796 0.50 mm C4892797 0.75 mm		
	* Piston Kit consists of: 1) 1 C3919041 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret. 2) 1 C3919044 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret. 3) 1 C3919045 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.		
CUMMINS CPL's 986 1260	 1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Seal Sleeve 5) Rear Seal Sleeve 6) Rectangular Seal 7) Crankshaft, Gear 1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk 6) Gear Housing Gsk 7) Rear Cover Gsk 1) Bushing, Piston 2) Bushing, Cam 3) Bolt, Con Rod 4) Con Rod 5) Bolt, Ex Manifold 1) Camshaft 2) Tappet 3) Push Rod 4) Rocker Arms 5) Camshaft Gear 1) Oil Cooler 5 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head		
	1) C3904353 2) C3353978 3) C3907803 4) C3906080 5) C3906081 6) C3912473 7) C3901258 1) C3804896 2) C3802375 3) C3921393 4) C3931602 5) C3902666 6) C3916131 7) C3928493 1) C4891178 x4 2) C3901306 x1 (3) 3) C3900919 x8 4) C3901569 (7) C4943979 (8) 5) C3944593 1) C3925582 (9) 2) C3925031 3) C3904679 4) C3910811 x4 C3910810 x4 5) C3907431 1) C3921557 2) C3926760 3) C3929792		
	 Guide, Valve C3904408 Thick W. 60.50 mm IN C3904409 Thick W. 51.75 mm EX C3906206 (1) Thin Wall 1) Intake, Valve Kit 2) Insert, Valve 1) C3802355 Kit Consists of: C3901117 Valve x1 C3900250 Collet x2 2) C3906854 Use 4 1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802356 Kit Consists of: C3901607 Valve x1 C3900250 Collet x2 2) C3904105 Use 4 1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve 1) C3900276 x8 2) C3921640 x8 (5) C3957912 x8 (6) 3) C3900299 x8 (5)		
 1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3286277 2) C3906698 3) C3802273	 1) Pump, Oil 2a) Lift Pump 2b) Lift Pump 1) C3926202 2a) C3918000 2b) C3904374 (2)	 1) Cylinder Head (With Valves) 2) Head Bolts 1) C3920005 (4) 2) C3920779 x4 C3920780 x10	(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S). (1) Can be Used on Both Intake and Exhaust. (2) Diaphragm Style. (3) For Storm blocks use C3940059. (4) Do not use on Marine Engines. (5) For use on engines prior to April, 2003. (6) For use on engines from April, 2003, (Top Hat Style). (7) Machine split connecting rod. (8) Fracture split connecting rod. (9) Use ESN or application model to confirm correct camshaft.

Engine Model CPL									
4BTA 3.9 (CDC 4.390) TURBOCHARGED AFTERCOOLED EMISSION 239 Cubic Inch Piston Std (m): 8673		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set		Con Rod Bearing	
		COK2747/4 Std.		2) Repair Sleeve		C3802010 Std.		C3901170 Std.	
		COK2764/4 0.50 mm		1) C3802747 Std.		C3802011 0.25 mm		C3901171 0.25 mm	
		COK2765/4 1.00 mm		C3802764 0.50 mm		C3802012 0.50 mm		C3901172 0.50 mm	
		COK2747F/4 Std.		C3802765 1.00 mm		C3802013 0.75 mm		C3901173 0.75 mm	
		COK2764F/4 0.50 mm		Use 4				C4893693 Std.	
		COK2765F/4 1.00 mm		2) C3904166		Use 1		C4892795 0.25 mm	
		To order an In-Frame Kit change <u>OK</u> to <u>IK</u>						C4892796 0.50 mm	
								C4892797 0.75 mm	
		* Piston Kit consists of:							
		1) 1 C3928673 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
		2) 1 C3928674 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
		3) 1 C3928675 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
CUMMINS CPL's									
									
		1) Front Seal		1) Top Gasket Set		1) Bushing, Piston		1) Oil Cooler 5 Plate	
		2) Rear Seal		2) Bottom Gasket Set		2) Bushing, Cam		2) Oil Cooler Gasket	
		3) Crankshaft		3) Head Gasket		3) Bolt, Con Rod		3) Oil Cooler Gasket	
		4) Front Seal Sleeve		4) Oil Pan Gasket		4) Con Rod		Filter Head	
		5) Rear Seal Sleeve		5) Valve Cover Gsk		4) Con Rod			
		6) Rectangular Seal		6) Gear Housing Gsk		5) Bolt, Ex Manifold			
		7) Crankshaft, Gear		7) Rear Cover Gsk					
CASE (Construction)		1) C3904353		1) C3804896		1) C4891178 x4		1) C3921557	
		2) C3353978		2) C3802375		2) C3901306 x1 (3)		2) C3926760	
		3) C3907803		3) C3921393		3) C3900919 x8		3) C3929792	
		4) C3906080		4) C3931602		4) C3901569 (7)			
		5) C3906081		5) C3902666		C4943979 (8)			
		6) C3912473		6) C3916131		5) C3944593			
		7) C3901258		7) C3928493					
				Guide, Valve		1) Intake, Valve Kit		1) Spring, Valve	
				Insert, Valve		2) Insert, Valve		2) Seal, Valve	
				1) C3802355 Kit		1) Exhaust, Valve Kit		3) Retainer, Valve	
				Consists of:		Consists of:			
				C3901117 Valve x1		C3901607 Valve x1			
				C3900250 Collet x2		C3900250 Collet x2			
				2) C3906854		2) C3904105			
				Use 4		Use 4			
				C3904408		1) C3802356 Kit		1) C3900276 x8	
				Thick W. 51.75 mm EX		Consists of:		2) C3921640 x8 (5)	
				C3906206 (1)		C3901607 Valve x1		C3957912 x8 (6)	
				Thin Wall		2) C3904105		3) C3900299 x8 (5)	
									
		1) Pump, Oil		1) Cylinder Head (With Valves)		2) Seal, Valve		3) Retainer, Valve	
		2a) Lift Pump		2) Head Bolts					
		2b) Lift Pump							
1) C3286277		1) C3926202		1) C3920005 (4)					
2) C3906698		2a) C3918000		2) C3920779 x4					
3) C3802273		2b) C3904374 (2)		C3920780 x10					

● On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

(1) Can be Used on Both Intake and Exhaust.

(2) Diaphragm Style.

(3) For Storm blocks use C3940059.

(4) Do not use on Marine Engines.

(5) For use on engines prior to April, 2003.

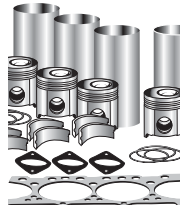
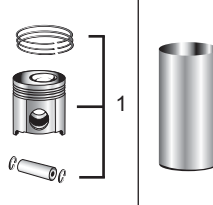
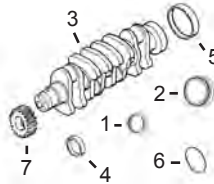
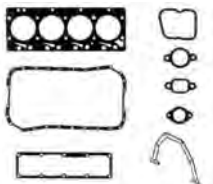
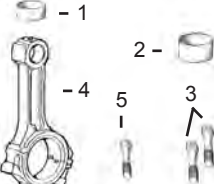
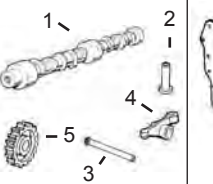
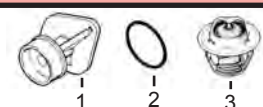
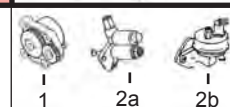
(6) For use on engines from April, 2003, (Top Hat Style).

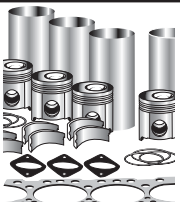
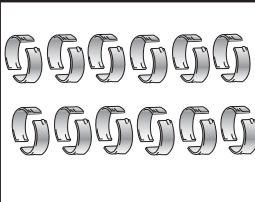
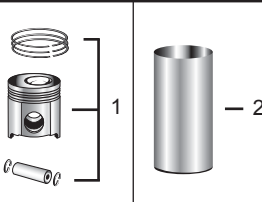
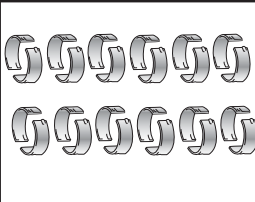
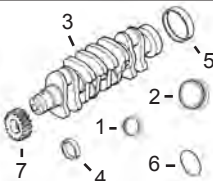
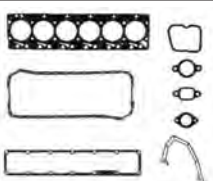
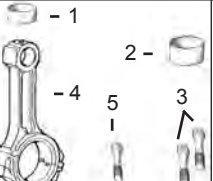
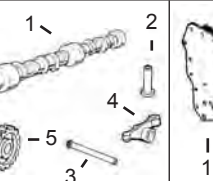
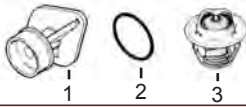
(7) Machine split connecting rod.

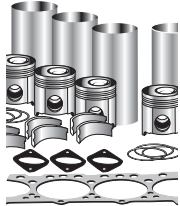
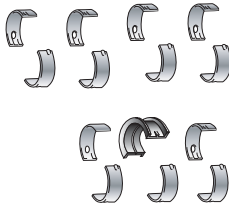
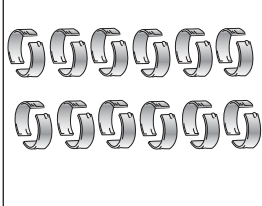
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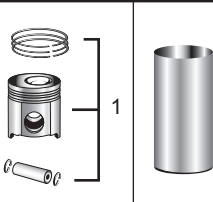
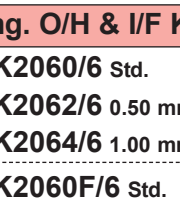
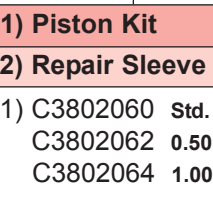
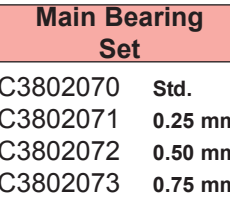
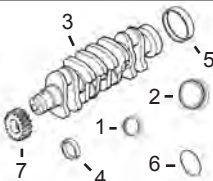
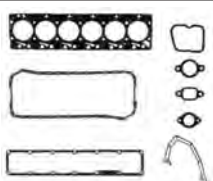
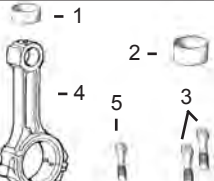
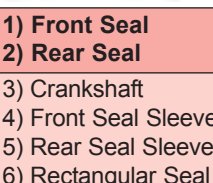
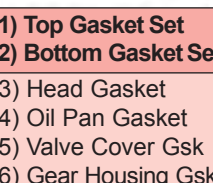
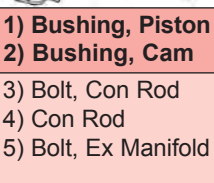
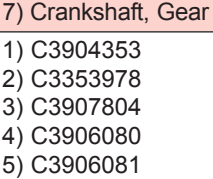
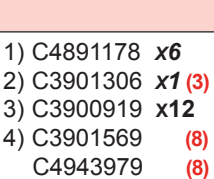
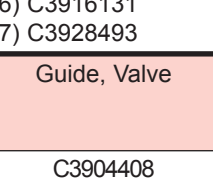
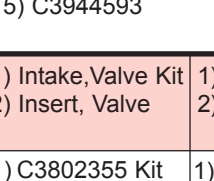
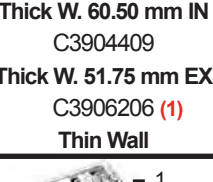
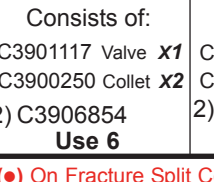
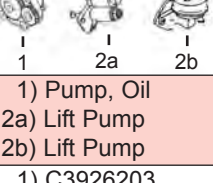
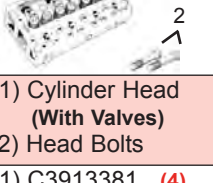
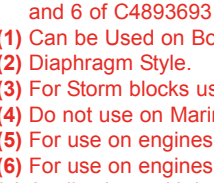
(9) Use ESN or application model to confirm correct camshaft.

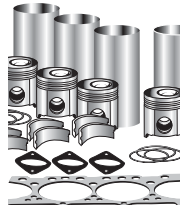
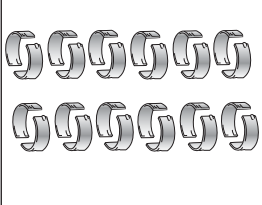
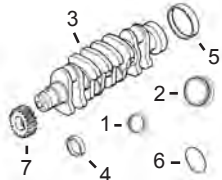
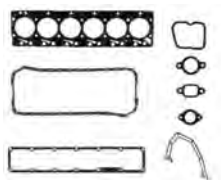
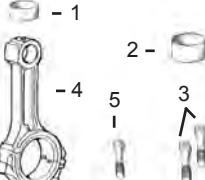
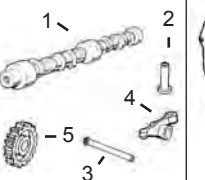
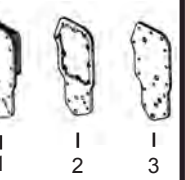
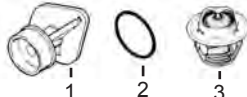
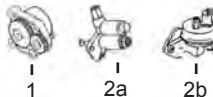
- (●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
- (1) Can be Used on Both Intake and Exhaust.
- (2) Diaphragm Style.
- (3) For Storm blocks use C3940059.
- (4) Do not use on Marine Engines.
- (5) For use on engines prior to April, 2003.
- (6) For use on engines from April, 2003, (Top Hat Style).
- (7) Machine split connecting rod.
- (8) Fracture split connecting rod.
- (9) Use ESN or application model to confirm correct camshaft.

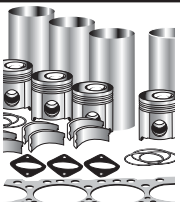
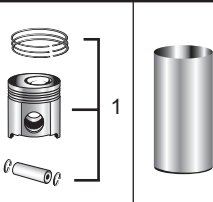
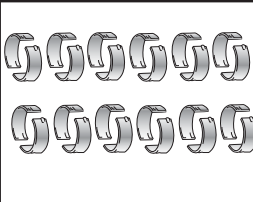
Engine Model CPL									
4BT 3.9		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set		Con Rod Bearing	
TURBOCHARGED		COK2757/4 Std.		2) Repair Sleeve		C3802010 Std.		C3901170 Std.	
Piston Std (m): 0187		COK2758/4 0.50 mm		1) C3802757 Std.		C3802011 0.25 mm		C3901171 0.25 mm	
		COK2759/4 1.00 mm		C3802758 0.50 mm		C3802012 0.50 mm		C3901172 0.50 mm	
		COK2757F/4 Std.		C3802759 1.00 mm		C3802013 0.75 mm		C3901173 0.75 mm	
		COK2758F/4 0.50 mm		Use 4				C4893693 Std.	
		COK2759F/4 1.00 mm		2) C3904166		Use 1		C4892795 0.25 mm	
		To order an In-Frame Kit change <u>OK</u> to <u>IK</u>						C4892796 0.50 mm	
								C4892797 0.75 mm	
CUMMINS CPL's		* Piston Kit consists of:							
		1) 1 C3930187 Piston Std, 1 C3802750 Ring Set Std, 1 C3934047 Piston Pin, 2 C3920691 Ret.							
		2) 1 C3930188 Piston 0.50 mm, 1 C3802863 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.							
		3) 1 C3930189 Piston 1.00 mm, 1 C3802864 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.							
1963									
2264		1) Front Seal		1) Top Gasket Set		1) Bushing, Piston		1) Oil Cooler 5 Plate	
		2) Rear Seal		2) Bottom Gasket Set		2) Bushing, Cam		2) Oil Cooler Gasket	
		3) Crankshaft		3) Head Gasket		3) Bolt, Con Rod		3) Oil Cooler Gasket	
		4) Front Seal Sleeve		4) Oil Pan Gasket		4) Con Rod		Filter Head	
		5) Rear Seal Sleeve		5) Valve Cover Gsk		5) Bolt, Ex Manifold			
		6) Rectangular Seal		6) Gear Housing Gsk					
		7) Crankshaft, Gear		7) Rear Cover Gsk					
		1) C3904353		1) C3804896		1) C4891178 x4		1) C3921557	
		2) C3353978		2) C3802375		2) C3901306 x1 (3)		2) C3926760	
		3) C3907803		3) C3921393		3) C3900919 x8		3) C3929792	
		4) C3906080		4) C3931602		4) C3901569 (7)			
		5) C3906081		5) C3902666		C4943979 (8)		4) C3910811 x4	
		6) C3912473		6) C3916131		5) C3944593		C3910810 x4	
		7) C3901258		7) C3928493				5) C3907431	
				Guide, Valve		1) Intake, Valve Kit		1) Spring, Valve	
						2) Insert, Valve		2) Seal, Valve	
				C3904408		1) C3802355 Kit		3) Retainer, Valve	
				Thick W. 60.50 mm IN		Consists of:		1) C3900276 x8	
				C3904409		C3901117 Valve x1		2) C3921640 x8 (5)	
				Thick W. 51.75 mm EX		C3900250 Collet x2		C3957912 x8 (6)	
				C3906206 (1)		2) C3906854		3) C3900299 x8 (5)	
				Thin Wall		Use 4			
								(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S). (1) Can be Used on Both Intake and Exhaust. (2) Diaphragm Style. (3) For Storm blocks use C3940059. (4) Do not use on Marine Engines. (5) For use on engines prior to April, 2003. (6) For use on engines from April, 2003, (Top Hat Style). (7) Machine split connecting rod. (8) Fracture split connecting rod. (9) Use ESN or application model to confirm correct camshaft.	
		1) Water Pump		1) Pump, Oil		1) Cylinder Head (With Valves)			
		2) Water Pump Seal		2a) Lift Pump		2) Head Bolts			
		3) Thermostat		2b) Lift Pump					
		1) C3286277		1) C3926202		1) C3920005 (4)			
		2) C3906698		2a) C3918000		2) C3920779 x4			
		3) C3802273		2b) C3904374 (2)		C3920780 x10			

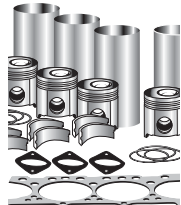
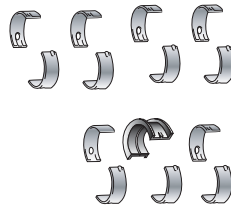
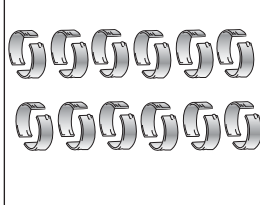
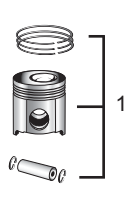
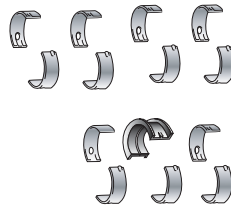
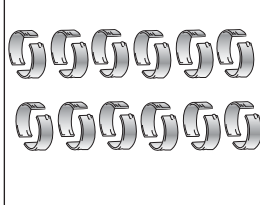
Engine Model CPL							
6BT 5.9 (CDC 6.590) TURBOCHARGED NON - EMISSION 359 Cubic Inch Piston Std (m): 7163							
		Eng. O/H & I/F Kit	1) Piston Kit 2) Repair Sleeve	Main Bearing Set		Con Rod Bearing	
		COK2160/6 Std. COK2132/6 0.50 mm COK2134/6 1.00 mm ----- COK2160F/6 Std. ● COK2132F/6 0.50 mm ● COK2134F/6 1.00 mm ● To order an In-Frame Kit change OK to IK	1) C3802160 Std. C3802132 0.50 mm C3802134 1.00 mm Use 6 2) C3904166	C3802070 Std. C3802071 0.25 mm C3802072 0.50 mm C3802073 0.75 mm Use 1		C3901170 Std. C3901171 0.25 mm C3901172 0.50 mm C3901173 0.75 mm ----- C4893693 Std. ● C4892795 0.25 mm ● C4892796 0.50 mm ● C4892797 0.75 mm ●	
* Piston Kit consists of: 1) 1 C3907163 Piston Std, 1 C3802230 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret. 2) 1 C3908815 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret. 3) 1 C3908816 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.							
							
1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Seal Sleeve 5) Rear Seal Sleeve 6) Rectangular Seal 7) Crankshaft, Gear		1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk 6) Gear Housing Gsk 7) Rear Cover Gsk		1) Bushing, Piston 2) Bushing, Cam 3) Bolt, Con Rod 4) Con Rod 5) Bolt, Ex Manifold		1) Camshaft 2) Tappet 3) Push Rod 4) Rocker Arms 5) Camshaft Gear	
1) Oil Cooler 7 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head							
1) C3904353 2) C3353978 3) C3907804 4) C3906080 5) C3906081 6) C3912473 7) C3901258		1) C3802363 2) C3802376 3) C3921394 4) C3931346 (7) 5) C3902666 6) C3916131 7) C3928493		1) C4891178 x6 2) C3901306 x1 (3) 3) C3900919 x12 4) C3901569 (8) C4943979 (8) 5) C3944593		1) C3914639 2) C3925031 3) C3904679 4) C3910811 x6 C3910810 x6 5) C3907431	
1) C3921558 2) C3926760 3) C3929792							
		Guide, Valve C3904408 Thick W. 60.50 mm IN C3904409 Thick W. 51.75 mm EX C3906206 (1) Thin Wall		1) Intake, Valve Kit 2) Insert, Valve 1) C3802355 Kit Consists of: C3901117 Valve x1 C3900250 Collet x2 2) C3906854 Use 6		1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802356 Kit Consists of: C3901607 Valve x1 C3900250 Collet x2 2) C3904105 Use 6	
1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve 1) C3900276 x12 2) C3921640 x12 (5) C3957912 x12 (6) 3) C3900299 x12 (5)							
						(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S). (1) Can be Used on Both Intake and Exhaust. (2) Diaphragm Style. (3) For Storm blocks use C3940059. (4) Do not use on Marine Engines. (5) For use on engines prior to April, 2003. (6) For use on engines from April, 2003, (Top Hat Style). (7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket. (8) C3901569 Machine Split rod. C4943979 Fracture Split rod.	
1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3286277 2) C3906698 3) C3802273		1) Pump, Oil 2a) Lift Pump 2b) Lift Pump 1) C3926203 2a) C3918000 2b) C3904374 (2)		1) Cylinder Head (With Valves) 2) Head Bolts 1) C3913381 (4) 2) C3920779 x6 C3920780 x14			

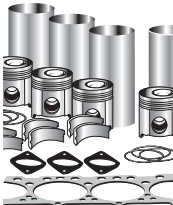
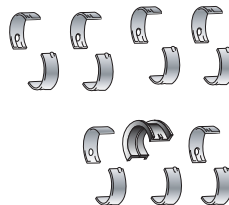
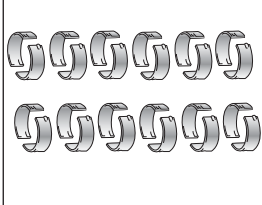
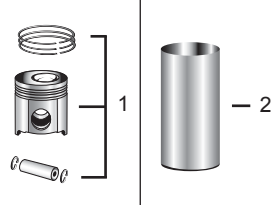
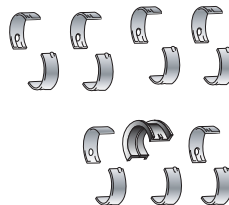
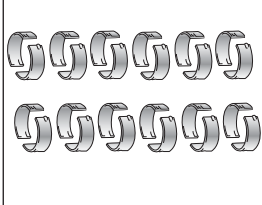
Engine Model CPL							
6BTA 5.9 (CDC 6.590)		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
TURBOCHARGED AFTERCOOLED		COK2100/6 Std.		2) Repair Sleeve		Use 1	
NON - EMISSION 359 Cubic Inch		COK2102/6 0.50 mm		1) C3802100 Std.		C3802070 Std.	
Piston Std (m): 7156		COK2104/6 1.00 mm		C3802102 0.50 mm		C3802071 0.25 mm	
CUMMINS CPL's		COK2100F/6 Std.		C3802104 1.00 mm		C3802072 0.50 mm	
CASE-IH (Agricultural)		COK2102F/6 0.50 mm		Use 6		C3802073 0.75 mm	
1640 Combine, (PIN: JJC0034705 >)		COK2104F/6 1.00 mm		2) C3904166		C3901170 Std.	
1644 Combine, (ESN 44937696 >)		To order an In-Frame Kit change OK to IK		* Piston Kit consists of:		C3901171 0.25 mm	
1822 Cotton Picker, (PIN: JJC0012691 >)		1) 1 C3907156 Piston Std., 1 C3802230 Ring Set Std., 1 C3901793 Piston Pin, 2 C3901706 Ret.		2) 1 C3907157 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.		C3901172 0.50 mm	
2022 Cotton Picker		3) 1 C3907158 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.		1) Front Seal		1) Oil Cooler 7 Plate	
2096 Tractor		* Marine Engine		2) Rear Seal		2) Oil Cooler Gasket	
1640 Combine, (PIN: JJC0034705 >)		1) C3904353		3) Crankshaft		3) Push Rod	
1644 Combine, (ESN 44937696 >)		2) C3353978		4) Front Seal Sleeve		4) Rocker Arms	
1822 Cotton Picker, (PIN: JJC0012691 >)		3) C3907804		5) Rear Seal Sleeve		5) Camshaft Gear	
2022 Cotton Picker		4) C3906080		6) Rectangular Seal		1) Camshaft	
2096 Tractor		5) C3906081		7) Crankshaft, Gear		2) Tappet	
1640 Combine, (PIN: JJC0034705 >)		6) C3912473		1) Top Gasket Set		3) Push Rod	
1644 Combine, (ESN 44937696 >)		7) C3901258		2) Bottom Gasket Set		4) Rocker Arms	
1822 Cotton Picker, (PIN: JJC0012691 >)		1) C3802363		3) Head Gasket		5) Camshaft Gear	
2022 Cotton Picker		2) C3802376		4) Oil Pan Gasket		1) Oil Cooler 7 Plate	
2096 Tractor		3) C3921394		5) Valve Cover Gsk		2) Oil Cooler Gasket	
1640 Combine, (PIN: JJC0034705 >)		4) C3931346 (7)		6) Gear Housing Gsk		3) Oil Cooler Gasket Filter Head	
1644 Combine, (ESN 44937696 >)		5) C3902666		7) Rear Cover Gsk		1) C3921558	
1822 Cotton Picker, (PIN: JJC0012691 >)		6) C3916131		1) C4891178 x6		2) C3926760	
2022 Cotton Picker		7) C3928493		2) C3901306 x1 (3)		3) C3929792	
2096 Tractor		1) C4943979 (8)		3) C3900919 x12		1) C3914639	
1640 Combine, (PIN: JJC0034705 >)		2) C3901569 (8)		4) C3901569 (8)		2) C3925031	
1644 Combine, (ESN 44937696 >)		5) C3944593		5) Bolt, Ex Manifold		3) C3904679	
1822 Cotton Picker, (PIN: JJC0012691 >)		1) Intake, Valve Kit		1) Exhaust, Valve Kit		4) C3910811 x6	
2022 Cotton Picker		2) Insert, Valve		2) Insert, Valve		C3910810 x6	
2096 Tractor		1) C3802355 Kit		1) C3802356 Kit		5) C3907431	
1640 Combine, (PIN: JJC0034705 >)		Consists of:		Consists of:		1) Spring, Valve	
1644 Combine, (ESN 44937696 >)		C3901117 Valve x1		C3901607 Valve x1		2) Seal, Valve	
1822 Cotton Picker, (PIN: JJC0012691 >)		C3900250 Collet x2		C3900250 Collet x2		3) Retainer, Valve	
2022 Cotton Picker		2) C3906854		2) C3904105		1) C3900276 x12	
2096 Tractor		Use 6		Use 6		2) C3921640 x12 (5)	
1640 Combine, (PIN: JJC0034705 >)		1) Cylinders Head (With Valves)		1) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).		3) C3900299 x12 (5)	
1644 Combine, (ESN 44937696 >)		2) Head Bolts		(1) Can be Used on Both Intake and Exhaust.		(2) Diaphragm Style.	
1822 Cotton Picker, (PIN: JJC0012691 >)		1) C3913381 (4)		(2) For Storm blocks use C3940059.		(3) For use on engines prior to April, 2003.	
2022 Cotton Picker		2) C3920779 x6		(4) Do not use on Marine Engines.		(5) For use on engines from April, 2003, (Top Hat Style).	
2096 Tractor		C3920780 x14		(6) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.		(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.	
1640 Combine, (PIN: JJC0034705 >)		(2) C3904374 (2)		(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.		(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.	

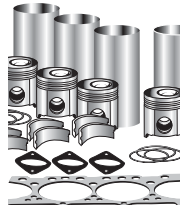
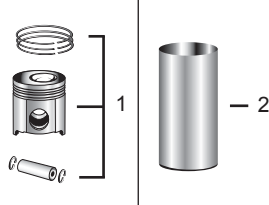
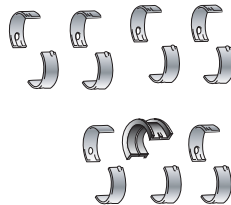
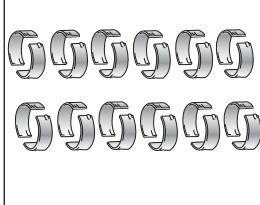
Engine Model CPL							
6B 5.9 (CDC 6.590)							
NATURALLY ASPIRATED		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
NON - EMISSION 359 Cubic Inch		2) Repair Sleeve					
Piston Std (m): 6223		COK2060/6 Std.		1) C3802060 Std.		C3802070 Std.	
		COK2062/6 0.50 mm		C3802062 0.50 mm		C3802071 0.25 mm	
		COK2064/6 1.00 mm		C3802064 1.00 mm		C3802072 0.50 mm	
		COK2060F/6 Std.		Use 6		C3802073 0.75 mm	
		COK2062F/6 0.50 mm		2) C3904166		Use 1	
		COK2064F/6 1.00 mm					
		To order an In-Frame Kit change OK to IK					
		* Piston Kit consists of:					
		1) 1 C3906223 Piston Std, 1 C3802040 Ring Set Std, 1 C3901793 Piston Pin, 2 C3901706 Ret.					
		2) 1 C3906209 Piston 0.50 mm, 1 C3802042 Ring Set 0.50 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.					
		3) 1 C3906208 Piston 1.00 mm, 1 C3802044 Ring Set 1.00 mm, 1 C3901793 Piston Pin, 2 C3901706 Ret.					
CUMMINS CPL's							
596 802 1320							
691 845 1403							
714 * 960 1433							
791 * 999							
* Marine Engine							
CASE-IH (Agricultural)		1) Front Seal		1) Top Gasket Set		1) Camshaft	
5130 Tractor		2) Rear Seal		2) Bottom Gasket Set		2) Tappet	
5230 "		3) Crankshaft		3) Head Gasket		3) Push Rod	
		4) Front Seal Sleeve		4) Oil Pan Gasket		4) Rocker Arms	
		5) Rear Seal Sleeve		5) Valve Cover Gsk		5) Camshaft Gear	
		6) Rectangular Seal		6) Gear Housing Gsk			
		7) Crankshaft, Gear		7) Rear Cover Gsk			
CASE (Construction)		1) C3904353		1) C3802363		1) C3914639	
680K/L Backhoe		2) C3353978		2) C3802376		2) C3925031	
850D/E Crawler		3) C3907804		3) C3921394		3) C3904679	
855D/E "		4) C3906080		4) C3931346 (7)		4) C3910811 x6	
W14B/C Wheel Loader		5) C3906081		5) C3902666		C3910810 x6	
		6) C3912473		6) C3916131		5) C3907431	
		7) C3901258		7) C3928493			
				Guide, Valve		1) Intake, Valve Kit	
				C3904408		1) Exhaust, Valve Kit	
				Thick W. 60.50 mm IN		2) Insert, Valve	
				C3904409			
				Thick W. 51.75 mm EX		1) C3802355 Kit	
				C3906206 (1)		Consists of:	
				Thin Wall		C3901117 Valve x1	
						C3900250 Collet x2	
						2) C3906854	
						Use 6	
						1) C3802356 Kit	
						Consists of:	
						C3901607 Valve x1	
						C3900250 Collet x2	
						2) C3904105	
						Use 6	

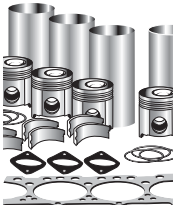
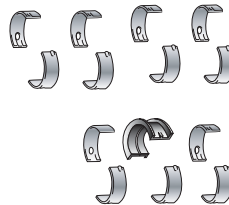
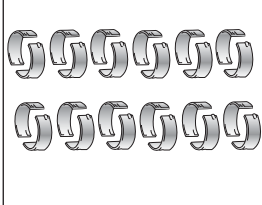
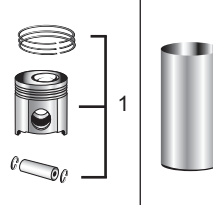
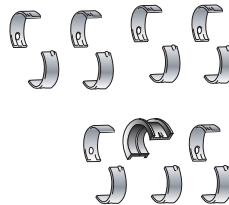
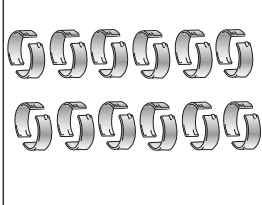
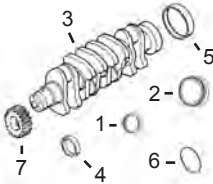
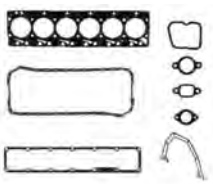
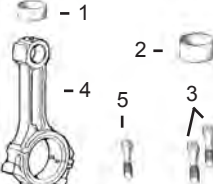
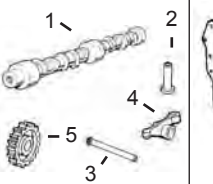
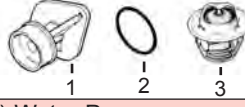
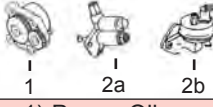
Engine Model CPL									
6BT 5.9 (CDC 6.590) TURBOCHARGED NON - EMISSION 359 Cubic Inch Piston Std (m): 1400		Eng. O/H & I/F Kit		1) Piston Kit 2) Repair Sleeve		Main Bearing Set		Con Rod Bearing	
COK1400/6 Std.		1) C3802170 Std.		C3802070 Std.		C3901170 Std.			
COK2049/6 0.50 mm		C3802172 0.50 mm		C3802071 0.25 mm		C3901171 0.25 mm			
COK2050/6 1.00 mm		C3802174 1.00 mm		C3802072 0.50 mm		C3901172 0.50 mm			
COK1400F/6 Std.		Use 6		C3802073 0.75 mm		C3901173 0.75 mm			
COK2049F/6 0.50 mm		2) C3904166		Use 1		C4893693 Std.			
COK2050F/6 1.00 mm						C4892795 0.25 mm			
To order an In-Frame Kit change <u>OK</u> to <u>IK</u>						C4892796 0.50 mm			
						C4892797 0.75 mm			
* Piston Kit consists of:		1) 1 C3911400 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret. 2) 1 C3912049 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret. 3) 1 C3912050 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
									
1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket Set		1) Bushing, Piston 2) Bushing, Cam		1) Camshaft 2) Tappet		1) Oil Cooler 7 Plate 2) Oil Cooler Gasket	
3) Crankshaft 4) Front Seal Sleeve 5) Rear Seal Sleeve 6) Rectangular Seal 7) Crankshaft, Gear		3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk 6) Gear Housing Gsk 7) Rear Cover Gsk		3) Bolt, Con Rod 4) Con Rod 5) Bolt, Ex Manifold		3) Push Rod 4) Rocker Arms 5) Camshaft Gear		3) Oil Cooler Gasket Filter Head	
1) C3904353 2) C3353978 3) C3907804 4) C3906080 5) C3906081 6) C3912473 7) C3901258		1) C3802363 2) C3802376 3) C3921394 4) C3931346 (7) 5) C3902666 6) C3916131 7) C3928493		1) C4891178 x6 2) C3901306 x1 (3) 3) C3900919 x12 4) C3901569 (8) C4943979 (8) 5) C3944593		1) C3914639 2) C3925031 3) C3904679 4) C3910811 x6 C3910810 x6 5) C3907431		1) C3921558 2) C3926760 3) C3929792	
		Guide, Valve		1) Intake, Valve Kit 2) Insert, Valve		1) Exhaust, Valve Kit 2) Insert, Valve		1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve	
		C3904408 Thick W. 60.50 mm IN C3904409 Thick W. 51.75 mm EX C3906206 (1) Thin Wall		1) C3802355 Kit Consists of: C3901117 Valve x1 C3900250 Collet x2 2) C3906854 Use 6		1) C3802356 Kit Consists of: C3901607 Valve x1 C3900250 Collet x2 2) C3904105 Use 6		1) C3900276 x12 2) C3921640 x12 (5) C3957912 x12 (6) 3) C3900299 x12 (5)	
									
1) Water Pump 2) Water Pump Seal 3) Thermostat		1) Pump, Oil 2a) Lift Pump 2b) Lift Pump		1) Cylinder Head (With Valves) 2) Head Bolts					
1) C3286277 2) C3906698 3) C3802273		1) C3926203 2a) C3918000 2b) C3904374 (2)		1) C3913381 (4) 2) C3920779 x6 C3920780 x14					

Engine Model CPL												
6BT 5.9												
TURBOCHARGED												
EMISSION 359 Cubic Inch												
Piston Std (m): 6632												
AUTOMOTIVE												
CUMMINS CPL's 1551 1915 2249 1552 1916 2252 1553 2000 2253 1888 2175 2305 1895 2243 2347 1914			Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set		Con Rod Bearing			
			COK2562/6 Std.		2) Repair Sleeve		C3802070 Std. C3802071 0.25 mm C3802072 0.50 mm C3802073 0.75 mm Use 1		C3901170 Std. C3901171 0.25 mm C3901172 0.50 mm C3901173 0.75 mm C4893693 Std. ● C4892795 0.25 mm ● C4892796 0.50 mm ● C4892797 0.75 mm ●			
			COK2564/6 0.50 mm		1) C3802562 Std. C3802564 0.50 mm C3802565 1.00 mm							
			COK2565/6 1.00 mm		Use 6							
			COK2562F/6 Std. ●		2) C3904166							
			COK2564F/6 0.50 mm ●									
			COK2565F/6 1.00 mm ●									
			To order an In-Frame Kit change <u>OK</u> to <u>IK</u>									

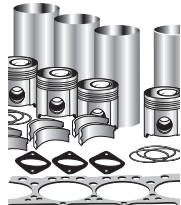
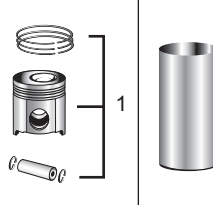
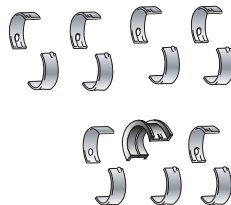
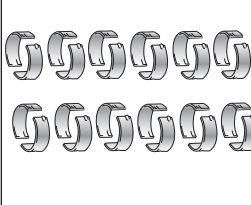
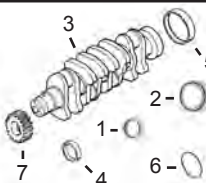
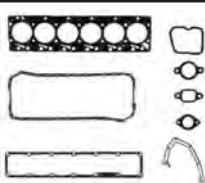
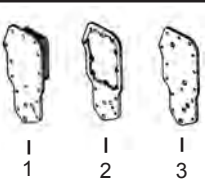
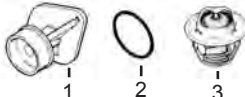
Engine Model CPL							
6BTA 5.9							
TURBOCHARGED AFTERCOOLED		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
EMISSION		2) Repair Sleeve				Con Rod Bearing	
359 Cubic Inch		COK2487/6 Std.		1) C3802487 Std.		C3802070 Std.	
Piston Grade A (m): 2571		COK2493/6 0.50 mm		C3802493 0.50 mm		C3802071 0.25 mm	
Grades B & C are not offered by Maxiforce		COK2495/6 1.00 mm		C3802495 1.00 mm		C3802072 0.50 mm	
		COK2487F/6 Std.		Use 6		C3802073 0.75 mm	
		COK2493F/6 0.50 mm		2) C3904166		Use 1	
		COK2495F/6 1.00 mm				C3901170 Std.	
		To order an In-Frame Kit change <u>OK</u> to <u>IK</u>				C3901171 0.25 mm	
						C3901172 0.50 mm	
						C3901173 0.75 mm	
						C4893693 Std.	
						C4892795 0.25 mm	
						C4892796 0.50 mm	
						C4892797 0.75 mm	

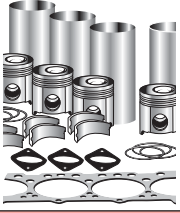
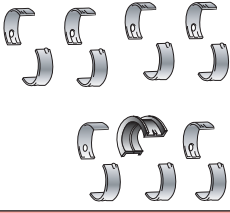
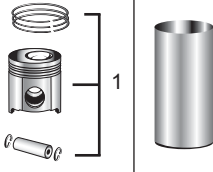
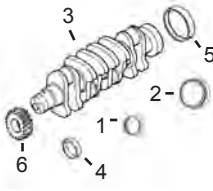
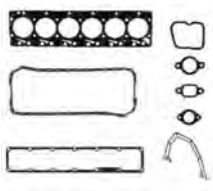
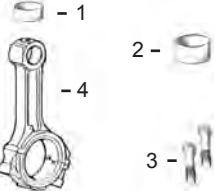
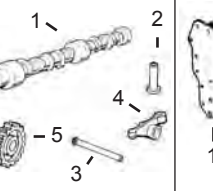
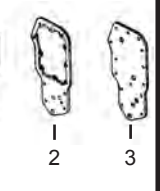
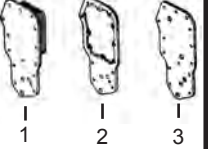
Engine Model CPL							
6BTA 5.9							
TURBOCHARGED AFTERCOOLED		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
EMISSION		2) Repair Sleeve		Use 6		Use 1	
359 Cubic Inch		COK2251/6 Std.		1) C3802251 Std.		C3802070 Std.	
Piston Std (m): 7619		COK2252/6 0.50 mm		C3802252 0.50 mm		C3802071 0.25 mm	
		COK2253/6 1.00 mm		C3802253 1.00 mm		C3802072 0.50 mm	
		COK2251F/6 Std.		Use 6		C3802073 0.75 mm	
		COK2252F/6 0.50 mm		2) C3904166		C3901170 Std.	
		COK2253F/6 1.00 mm				C3901171 0.25 mm	
		To order an In-Frame Kit change <u>OK</u> to <u>IK</u>				C3901172 0.50 mm	
						C3901173 0.75 mm	
						C4893693 Std.	
						C4892795 0.25 mm	
						C4892796 0.50 mm	
						C4892797 0.75 mm	

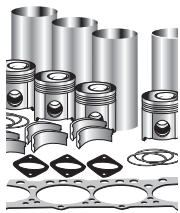
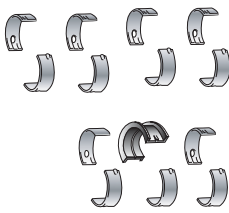
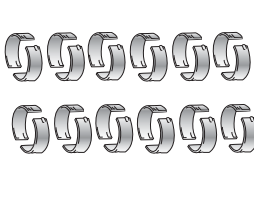
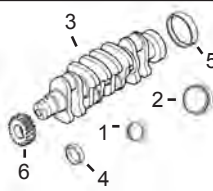
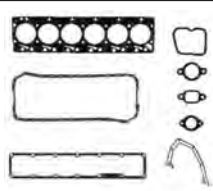
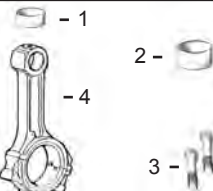
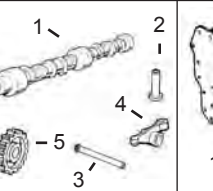
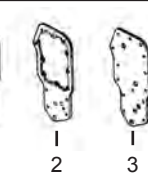
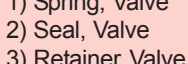
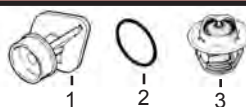
Engine Model CPL									
6BTA 5.9		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set		Con Rod Bearing	
TURBOCHARGED AFTERCOOLED		COK2248/6 Std.		2) Repair Sleeve		C3802070 Std.		C3901170 Std.	
EMISSION		COK2249/6 0.50 mm		1) C3802248 Std.		C3802071 0.25 mm		C3901171 0.25 mm	
359 Cubic Inch		COK2250/6 1.00 mm		C3802249 0.50 mm		C3802072 0.50 mm		C3901172 0.50 mm	
Piston Std (m): 9041		COK2248F/6 Std.		C3802250 1.00 mm		C3802073 0.75 mm		C3901173 0.75 mm	
		COK2249F/6 0.50 mm		Use 6				C4893693 Std.	
		COK2250F/6 1.00 mm		2) C3904166		Use 1		C4892795 0.25 mm	
		To order an In-Frame Kit change <u>OK</u> to <u>IK</u>						C4892796 0.50 mm	
								C4892797 0.75 mm	

Engine Model CPL							
6BTA 5.9							
TURBOCHARGED AFTERCOOLED		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set	
EMISSION		2) Repair Sleeve		Use 6		Use 1	
359 Cubic Inch		COK2747/6 Std.		1) C3802747 Std.		C3802070 Std.	
Piston Std (m): 8673		COK2764/6 0.50 mm		C3802764 0.50 mm		C3802071 0.25 mm	
		COK2765/6 1.00 mm		C3802765 1.00 mm		C3802072 0.50 mm	
		COK2747F/6 Std.		Use 6		C3802073 0.75 mm	
		COK2764F/6 0.50 mm		2) C3904166		C3901170 Std.	
		COK2765F/6 1.00 mm				C3901171 0.25 mm	
		To order an In-Frame Kit change OK to IK				C3901172 0.50 mm	
						C3901173 0.75 mm	
						C4893693 Std.	
						C4892795 0.25 mm	
						C4892796 0.50 mm	
						C4892797 0.75 mm	
* Piston Kit consists of:							
1) 1 C3928673 Piston Std, 1 C3802230 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
2) 1 C3928674 Piston 0.50 mm, 1 C3802232 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
3) 1 C3928675 Piston 1.00 mm, 1 C3802234 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.							
							
1) Front Seal		1) Top Gasket Set		1) Bushing, Piston		1) Camshaft	
2) Rear Seal		2) Bottom Gasket Set		2) Bushing, Cam		2) Tappet	
3) Crankshaft		3) Head Gasket		3) Bolt, Con Rod		3) Push Rod	
4) Front Seal Sleeve		4) Oil Pan Gasket		4) Con Rod		4) Rocker Arms	
5) Rear Seal Sleeve		5) Valve Cover Gsk		5) Bolt, Ex Manifold		5) Camshaft Gear	
6) Rectangular Seal		6) Gear Housing Gsk					
7) Crankshaft, Gear		7) Rear Cover Gsk					
1) C3904353		1) C3802363		1) C4891178 x6		1) C3914639	
2) C3353978		2) C3802376		2) C3901306 x1 (3)		2) C3925031	
3) C3907804		3) C3921394		3) C3900919 x12		3) C3904679	
4) C3906080		4) C3931346 (7)		4) C3901569 (8)		4) C3910811 x6	
5) C3906081		5) C3902666		C4943979 (8)		C3910810 x6	
6) C3912473		6) C3916131		5) C3944593		5) C3907431	
7) C3901258		7) C3928493					
		Guide, Valve		1) Intake, Valve Kit		1) Exhaust, Valve Kit	
				2) Insert, Valve		2) Insert, Valve	
		C3904408		1) C3802355 Kit		1) C3802356 Kit	
		Thick W. 60.50 mm IN		Consists of:		Consists of:	
		C3904409		C3901117 Valve x1		C3901607 Valve x1	
		Thick W. 51.75 mm EX		C3900250 Collet x2		C3900250 Collet x2	
		C3906206 (1)		2) C3906854		2) C3904105	
		Thin Wall		Use 6		Use 6	
							
							
1) Water Pump		1) Pump, Oil		1) Cylinder Head (With Valves)			
2) Water Pump Seal		2a) Lift Pump		2) Head Bolts			
3) Thermostat		2b) Lift Pump					
1) C3286277		1) C3926203		1) C3913381 (4)			
2) C3906698		2a) C3918000		2) C3920779 x6			
3) C3802273		2b) C3904374 (2)		C3920780 x14			
(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).							
(1) Can be Used on Both Intake and Exhaust.							
(2) Diaphragm Style.							
(3) For Storm blocks use C3940059.							
(4) Do not use on Marine Engines.							
(5) For use on engines prior to April, 2003.							
(6) For use on engines from April, 2003, (Top Hat Style).							
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.							
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.							

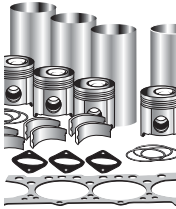
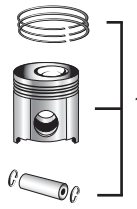
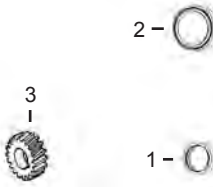
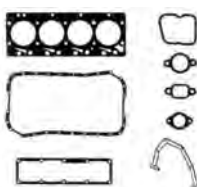
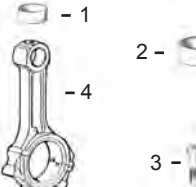
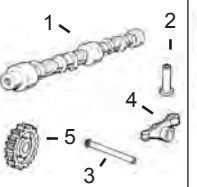
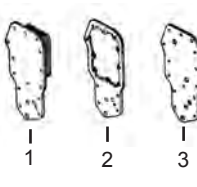
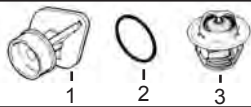
- (●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
- (1) Can be Used on Both Intake and Exhaust.
- (2) Diaphragm Style.
- (3) For Storm blocks use C3940059.
- (4) Do not use on Marine Engines.
- (5) For use on engines prior to April, 2003.
- (6) For use on engines from April, 2003, (Top Hat Style).
- (7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
- (8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

Engine Model CPL									
6BTA 5.9		Eng. O/H & I/F Kit		1) Piston Kit		Main Bearing Set		Con Rod Bearing	
TURBOCHARGED AFTERCOOLED		COK2757/6 Std.		2) Repair Sleeve		C3802070 Std.		C3901170 Std.	
COK2758/6 0.50 mm		C3802757 Std.		C3802071 0.25 mm		C3901171 0.25 mm		C3901172 0.50 mm	
COK2759/6 1.00 mm		C3802758 0.50 mm		C3802072 0.50 mm		C3901173 0.75 mm		C3901173 0.75 mm	
COK2757F/6 Std.		Use 6		C3802073 0.75 mm		C4893693 Std.		C4892795 0.25 mm	
COK2758F/6 0.50 mm		2) C3904166		Use 1		C4892796 0.50 mm		C4892797 0.75 mm	
COK2759F/6 1.00 mm									
To order an In-Frame Kit change <u>OK</u> to <u>IK</u>									
* Piston Kit consists of:									
1) 1 C3930187 Piston Std., 1 C3802750 Ring Set Std., 1 C3934047 Piston Pin, 2 C3920691 Ret.									
2) 1 C3930188 Piston 0.50 mm, 1 C3802863 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.									
3) 1 C3930189 Piston 1.00 mm, 1 C3802864 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3920691 Ret.									
									
1) Front Seal		1) Top Gasket Set		1) Bushing, Piston		1) Camshaft		1) Oil Cooler 7 Plate	
2) Rear Seal		2) Bottom Gasket Set		2) Bushing, Cam		2) Tappet		2) Oil Cooler Gasket	
3) Crankshaft		3) Head Gasket		3) Bolt, Con Rod		3) Push Rod		3) Oil Cooler Gasket Filter Head	
4) Front Seal Sleeve		4) Oil Pan Gasket		4) Con Rod		4) Rocker Arms			
5) Rear Seal Sleeve		5) Valve Cover Gsk		5) Bolt, Ex Manifold		5) Camshaft Gear			
6) Rectangular Seal		6) Gear Housing Gsk							
7) Crankshaft, Gear		7) Rear Cover Gsk							
1) C3904353		1) C3802363		1) C4891178 x6		1) N/A		1) C3921558	
2) C3353978		2) C3802376		2) C3901306 x1 (3)		2) C3925031		2) C3926760	
3) C3907804		3) C3921394		3) C3900919 x12		3) C3904679		3) C3929792	
4) C3906080		4) C3931346 (7)		4) C3901569 (8)		4) C3910811 x6			
5) C3906081		5) C3902666		C4943979 (8)		C3910810 x6			
6) C3912473		6) C3916131		5) C3944593		5) C3907431			
7) C3901258		7) C3928493							
		Guide, Valve		1) Intake, Valve Kit		1) Exhaust, Valve Kit		1) Spring, Valve	
				2) Insert, Valve		2) Insert, Valve		2) Seal, Valve	
								3) Retainer, Valve	
		C3904408		1) C3802355 Kit		1) C3802356 Kit		1) C3900276 x12	
		Thick W. 60.50 mm IN		Consists of:		Consists of:		2) C3921640 x12 (5)	
		C3904409		C3901117 Valve x1		C3901607 Valve x1		C3957912 x12 (6)	
		Thick W. 51.75 mm EX		C3900250 Collet x2		C3900250 Collet x2		3) C3900299 x12 (5)	
		C3906206 (1)		2) C3906854		2) C3904105			
		Thin Wall		Use 6		Use 6			
						(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).			
1) Water Pump		1) Pump, Oil		1) Cylinder Head (With Valves)		(1) Can be Used on Both Intake and Exhaust.			
2) Water Pump Seal		2a) Lift Pump		2) Head Bolts		(2) Diaphragm Style.			
3) Thermostat		2b) Lift Pump				(3) For Storm blocks use C3940059.			
1) C3286277		1) C3926203		1) C3913381 (4)		(4) Do not use on Marine Engines.			
2) C3906698		2a) C3918000		2) C3920779 x6		(5) For use on engines prior to April, 2003.			
3) C3802273		2b) C3904374 (2)		C3920780 x14		(6) For use on engines from April, 2003, (Top Hat Style).			
						(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.			
						(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.			

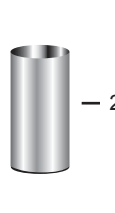
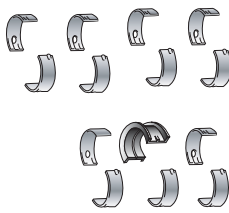
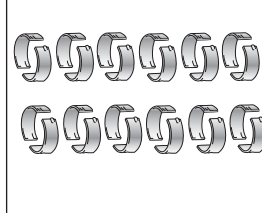
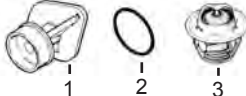
Engine Model CPL							
6BTA 5.9 ISB							
24 VALVE		Eng. O/H & I/F Kit		Main Bearing Set		Con Rod Bearing	
359 Cubic Inch		1) Piston Kit		Use 1		Use 6	
Piston Grade 'A' (m): 6153		2) Repair Sleeve					
Grades B & C are not offered by Maxiforce		1) C3800781 Std.					
		C3800784 0.50 mm					
		C3800785 1.00 mm					
		Use 6					
		2) C3904166					
To order an In-Frame Kit change OK to IK in above part number							
* Piston Kit consists of:							
		1) 1 C3946153 Piston Std, 1 C3804990 Ring Set Std, 1 C3934047 Piston Pin, 2 C3901706 Ret.					
		2) 1 C3946156 Piston 0.50 mm, 1 C3806201 Ring Set 0.50 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.					
		3) 1 C3946157 Piston 1.00 mm, 1 C3806203 Ring Set 1.00 mm, 1 C3934047 Piston Pin, 2 C3901706 Ret.					
CUMMINS CPL's							
							
		1) Front Seal		1) Top Gasket Set		1) Camshaft	
		2) Rear Seal		2) Bottom Gasket Set		2) Tappet	
		3) Crankshaft		3) Head Gasket		3) Push Rod	
		4) Front Seal Sleeve		4) Oil Pan Gasket		4) Rocker Arms	
		5) Rear Seal Sleeve		5) Valve Cover Gsk		5) Camshaft Gear	
		6) Crankshaft, Gear		6) Gear Housing Gsk			
		1) C3904353		1) C4090035		1) N/A	
		2) C3353978		2) C3800487		2) C3942565	
		3) C3944243 (1)		3) C3977063		3) C3941253	
		4) C3906080		4) C3931346 (4)		4) C3941927 x6	
		5) C3926126		5) C3935878		C3941928 x6	
		6) C3929027		6) C3940182		5) C3942755	

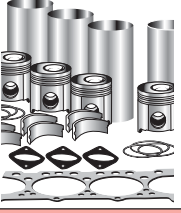
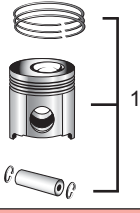
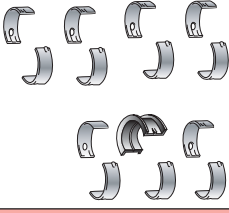
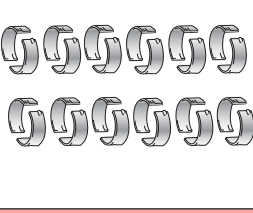
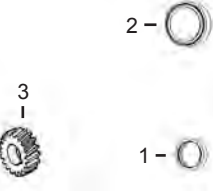
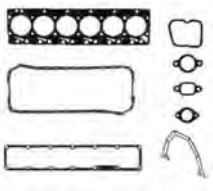
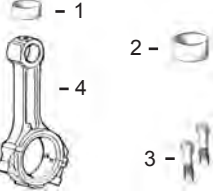
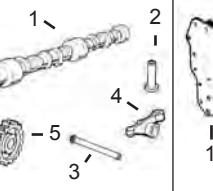
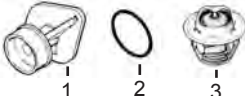
Engine Model CPL					
6BTA 5.9 ISB					
24 VALVE		Eng. O/H & I/F Kit		1) Piston Kit	
359 Cubic Inch				Main Bearing Set	
Piston Grade 'A' (m): 6050				Con Rod Bearing	
Grades B & C are not offered by Maxiforce					
Bore: 4.02 in					
Stroke: 4.72 in					
CUMMINS CPL's					
2415					
2495					
2906					
2907					
8034					
8035					
					
					
					
		1) Front Seal		1) Top Gasket Set	
		2) Rear Seal		2) Bottom Gasket Set	
		3) Crankshaft		3) Head Gasket	
		4) Front Seal Sleeve		4) Oil Pan Gasket	
		5) Rear Seal Sleeve		5) Valve Cover Gsk	
		6) Crankshaft, Gear		6) Gear Housing Gsk	
		1) C3904353		1) C4090035	
		2) C3353978		2) C3800487	
		3) C3944243 (1)		3) C3977063	
		4) C3906080		4) C3931346 (4)	
		5) C3926126		5) C3935878	
		6) C3929027		6) C3940182	
		1) C4891178 x6		1) N/A	
		2) C3940059 x1		2) C3942565	
		3) C3900919 x12		3) C3941253	
		4) C3901569 (5)		4) C3941927 x6	
		C4943979 (6)		C3941928 x6	
				5) C3942755	
		1) C3921558			
		2) C3942914			
		3) C3942915			
					
		1) Intake, Valve Kit		1) Spring, Valve	
		2) Insert, Valve		2) Seal, Valve	
				3) Retainer, Valve	
		1) C3802924 Kit		1) C3943161 x24	
		Consists of:		2) C3942989 x12	
		C3940735 Valve x1		C3945438 x12	
		C3940123 Collet x2		3) C3943198 x24	
		2) C3927068			
		Use 12		Use 12	
					
		1) Water Pump		1) Cylinder Head (With Valves)	
		2) Water Pump Seal		2) Head Bolts	
		3) Kit, Thermostat			
		1) C3286278 (2)		1) N/A	
		2) C3906698		2) C3927063 x26	
		3) C3967195			
		1) Pump, Oil			
		2) Lift Pump			
		1) C4939587 (3)			
		2) C3945812			

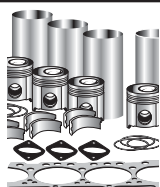
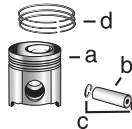
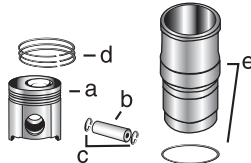
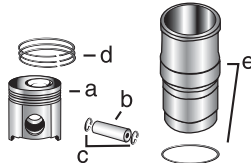
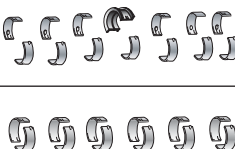
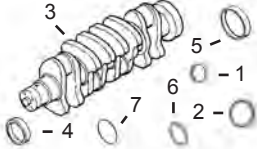
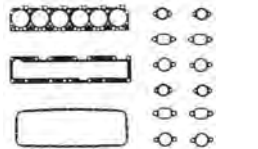
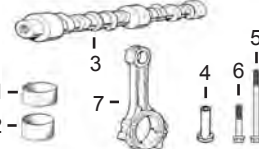
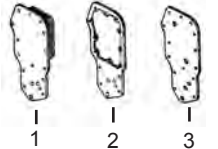
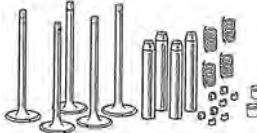
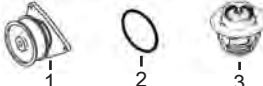
- (●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
- (1) Include Crankshaft Gear C3929027.
- (2) With Hardened Pulley.
- (3) With Helical Gears.
- (4) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
- (5) Machine split connecting rod.
- (6) Fracture split connecting rod.

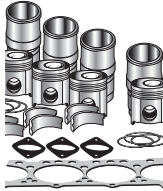
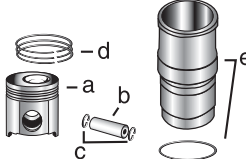
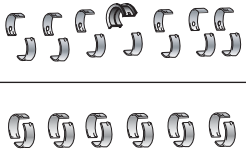
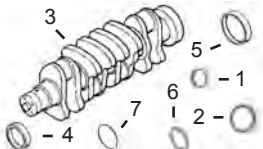
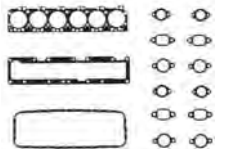
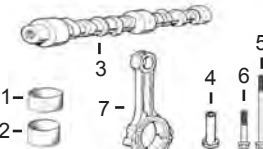
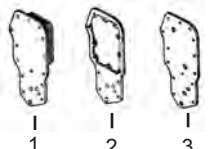
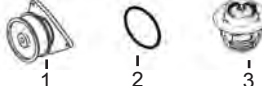
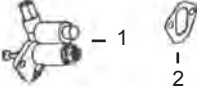
Engine Model CPL					
4BT 4.5 QSB CM850 16 VALVE Bore: 4.21 in 107 mm Stroke: 4.88 in 124 mm CUMMINS CPL's 1700 1701 2743 8725 8754 8755 8756 41100 41472 41700 41701 41703 42743 43172 44195					
		Eng. O/H & I/F Kit	1) Piston Kit *	Main Bearing Set	Con Rod Bearing
		COK5160/4 Std. COK5481/4 0.50 mm	1) C4955160 Std. C4955481 0.50 mm	C3802010 Std. C3802011 0.25 mm C3802012 0.50 mm C3802013 0.75 mm	C3901170 Std. C3901171 0.25 mm C3901172 0.50 mm C3901173 0.75 mm
		COK5160F/4 Std. ● COK5481F/4 0.50 mm ●			C4893693 Std. ● C4892795 0.25 mm ● C4892796 0.50 mm ● C4892797 0.75 mm ●
		To order an In-Frame Kit change OK to IK in above part number	Use 4	Use 1	
* Piston Kit consists of: 1) 1 C4934860 Piston Std., 1 C4955251 Ring Set Std., 1 C4931041 Piston Pin, 2 C3920691 Ret. 2) 1 C4934816 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.					
					
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket Set	1) Bushing, Piston 2) Bushing, Cam	1) Camshaft 2) Tappet
		3) Crankshaft, Gear	3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk	3) Bolt, Con Rod 4) Con Rod	3) Push Rod 4) Rocker Arms 5) Camshaft Gear
		1) C4890832 2) C4955372 3) C3955151	1) C4955356 2) C4955357 3) C4932209 4) C4939246 5) C4899228	1) C4891178 x4 2) C3940059 x1 3) C4891179 x8 4) C3971212	1) C3977547 2) C3947759 3) N/A 4) C3942734 x4 C3942735 x4 5) C3955152
					
		1) Oil Cooler 7 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head			
		1) C3921558 2) C3942914 3) C3942915			
			1) Intake, Valve Kit 2) Insert, Valve	1) Exhaust, Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve
		1) C3802924 Kit Consists of: C3940735 Valve x1 C3940123 Collet x2	1) C3802967 Kit Consists of: C3940734 Valve x1 C3940123 Collet x2	1) C3802967 Kit Consists of: C3940734 Valve x1 C3940123 Collet x2	1) C4936080 x16 2) C3955393 x16 3) C3943198 x16
		2) C3943449 Use 8	2) C3943450 Use 8	2) C3943450 Use 8	
					
		1) Water Pump 2) Water Pump Seal 3) Kit, Thermostat	Pump, Oil	1) Cylinder Head (With Valves) 2) Head Bolts	
		1) C3800984 2) C3906698 3) C3974823	C4939586	1) N/A 2) C3927063 x18	

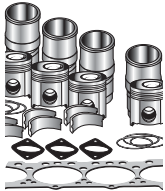
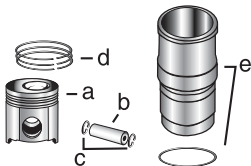
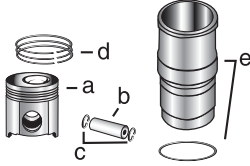
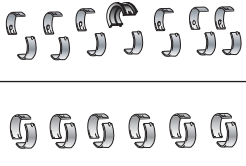
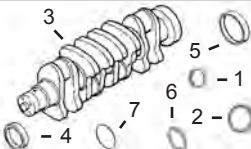
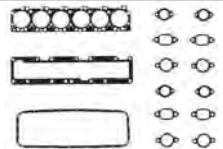
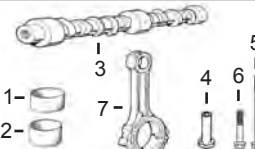
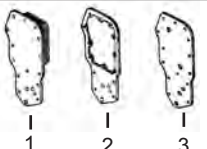
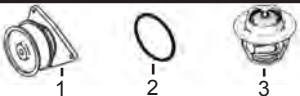
(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

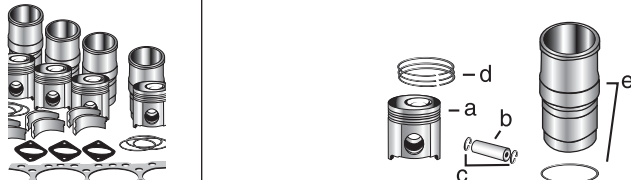
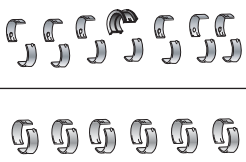
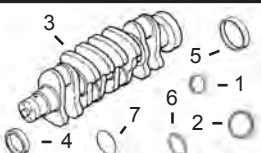
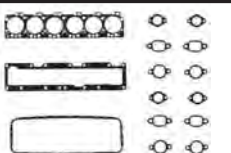
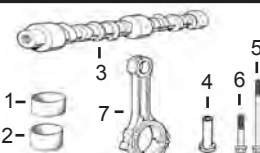
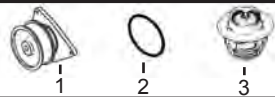
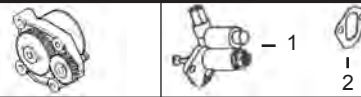
Engine Model CPL		    			
6BT 5.9 QSB					
TURBOCHARGED					
359 Cubic Inch					
Piston Std (m): 7416					
Bore: 4.02 in					
Stroke: 4.72 in					
CUMMINS CPL's					
8186					
8187					
8217					
8236					
8237					
8238					
8276					
8296					
8298					
8300					
8304					
8305					
8306					
8339					
8340					
8341					
8400					
8428					
8485					
8487					
8488					
8553					
8554					
40568					
					
1) Water Pump 2) Water Pump Seal 3) Kit, Thermostat		1) Pump, Oil 2) Lift Pump			
1) C3286278 2) C3906698 3) C3802273		1) C4939587 2) C3904374 (2)			
					
		1) Cylinder Head (With Valves) 2) Head Bolts			
		1) C3913381 (4) 2) C3920779 x6 C3920780 x14			
		(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S). (1) Can be Used on Both Intake and Exhaust. (2) Diaphragm Style. (3) For Storm blocks use C3940059. (4) Do not use on Marine Engines. (5) For use on engines prior to April, 2003. (6) For use on engines from April, 2003, (Top Hat Style). (7) C3901569 Machine Split rod. C4943979 Fracture Split rod.			

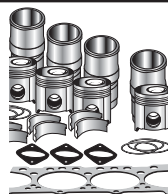
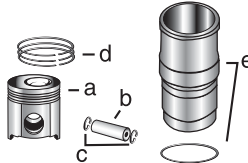
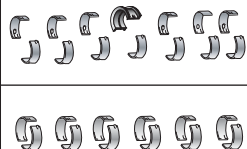
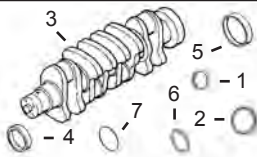
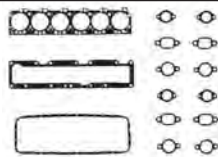
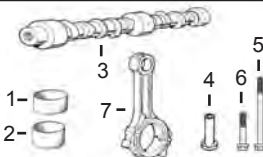
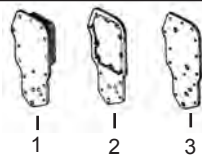
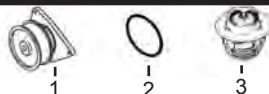
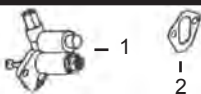
Engine Model CPL					
6BT 6.7 QSB CM850 24 VALVE Bore: 4.21 in 107 mm Stroke: 4.88 in 124 mm CUMMINS CPL's 426 427 656 1584 1610 1629 2605 8466 8510 8610 8611 8615 8733 40426 40427 40656 41452 41584 41586 41610 41629 42605 42827 43068 43293 43460 43858 43859 43861 43862					
		Eng. O/H & I/F Kit	1) Piston Kit *	Main Bearing Set	Con Rod Bearing
		COK5160/6 Std. COK5481/6 0.50 mm COK5160F/6 Std. ● COK5481F/6 0.50 mm ● To order an In-Frame Kit change <u>OK</u> to <u>IK</u> in above part number	1) C4955160 Std. C4955481 0.50 mm Use 6	C3802070 Std. C3802071 0.25 mm C3802072 0.50 mm C3802073 0.75 mm Use 1	C3901170 Std. C3901171 0.25 mm C3901172 0.50 mm C3901173 0.75 mm C4893693 Std. ● C4892795 0.25 mm ● C4892796 0.50 mm ● C4892797 0.75 mm ●
		* Piston Kit consists of: 1) 1 C4934860 Piston Std., 1 C4955251 Ring Set Std., 1 C4931041 Piston Pin, 2 C3920691 Ret. 2) 1 C4934816 Piston 0.50 mm, 1 C4955480 Ring Set 0.50 mm, 1 C4931041 Piston Pin, 2 C3920691 Ret.			
					
		1) Front Seal 2) Rear Seal 3) Crankshaft, Gear	1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gsk	1) Bushing, Piston 2) Bushing, Cam 3) Bolt, Con Rod 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Rocker Arms 5) Camshaft Gear
		1) C4890832 2) C4955372 3) C3955151	1) C4955229 2) C4955230 3) C4932210 4) C4934344 5) C4899231	1) C4891178 x6 2) C3940059 x1 3) C4891179 x12 4) C3971212	1) C3979506 2) C3947759 3) N/A 4) C3942734 x6 C3942735 x6 5) C3955152
			1) Intake, Valve Kit 2) Insert, Valve 1) C3802924 Kit Consists of: C3940735 Valve x1 C3940123 Collet x2 2) C3943449 Use 12	1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802967 Kit Consists of: C3940734 Valve x1 C3940123 Collet x2 2) C3943450 Use 12	1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve 1) C4936080 x24 2) C3955393 x24 3) C3943198 x24
				(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).	
1) Water Pump 2) Water Pump Seal 3) Kit, Thermostat		Pump, Oil	1) Cylinder Head (With Valves) 2) Head Bolts		
1) C3800984 2) C3906698 3) C3974823		C3971544	1) N/A 2) C3927063 x26		

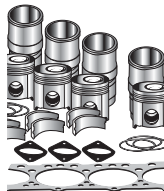
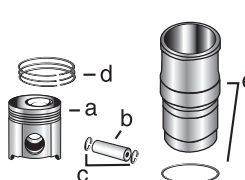
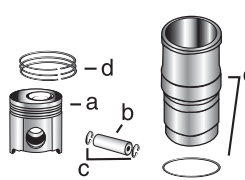
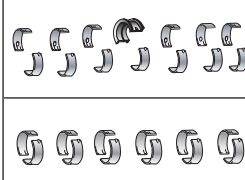
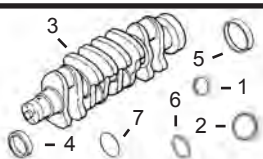
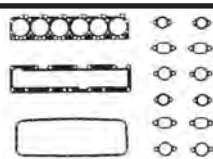
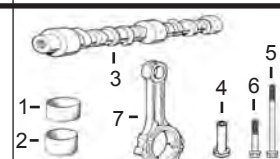
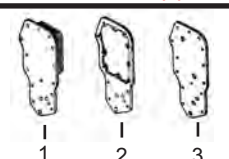
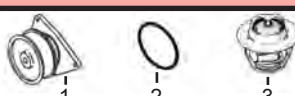
Engine Model CPL 6CT 8.3 (CDC 6.830) TURBOCHARGED Piston Std (m): 3163, 9564, 9928 CUMMINS CPL's 602 828 1274 1603 603 955 1275 9820 753 985 1281 819 1248 1603 CASE-IH (Agricultural) 1660 Combine 1666 Combine, ESN 44706126 > 1670 Combine, ESN > 44706125 1680 Combine, ESN > 44706125 2044 Cot Picker, ESN > 44706125 2166 Combine, PIN > JJC0180000 7110 Tractor 7120 Tractor 7130 Tractor 7140 Tractor, ESN > 44706125 7150 Tractor, ESN > 44706125 7210 Tractor 7220 Tractor, PIN > JJA0064978 9110 Tractor, ESN > 44706125 9130 Tractor, ESN > 44706125 9210 Tractor 9230 Tractor, ESN > 44706125 9240 Tractor 9310 Tractor, PIN > JEE0036001 CASE (Construction) 721 Loader 721B Loader, PIN > JEE053200 821 Loader 821B Loader, PIN > JEE050601 1150E Crawler 1155E Crawler 1187C Excav, ESN > 44706125 1550 Crawler, ESN > 44706125 9040 Excavator 9040B Excav, PIN > DAC4#2001 W36 Loader	 Engine Overhaul & Engine In Frame Kit COK2400 Thin Wall COK2403 Thick Wall Long COK2403S Thick Wall Short To order an In-Frame Kit change OK to IK in above part number	 Cylinder Kit Thin Wall (•) C3802400 Consists of: a) C3923163 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	 Cylinder Kit Thick Wall (••) Long Liner C3802403 Consists of: a) C3923163 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	 Cylinder Kit Thick Wall (•••) Short Liner C3802403S Consists of: a) C3923163 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	 Main Bearing Set Con Rod Bearing C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1 C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)
 1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	 1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	 1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	 1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head		
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308		
 1) Intake, Valve Kit 2) Insert, Valve	1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6	1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring 1) C3906412 x12 2) C3915707 x12 3) C3923564 x12 4) C3912976 x12		
 1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2	 Oil Pump C3930338 (3415365)	 1) Fuel Lift Pump 2) Fuel Pump Gsk 1) C3917998 2) C3914304	(•) Block 3802265 (Thin Wall) Flange ø 5.223". (••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm). (•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm). (1) Order in multiples of two. (2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. (3) Only use on engines built from year 1991 onwards. (4) Do not use with Crankshaft part number 3965006. (5) Some applications use short nose pump C3806180.		

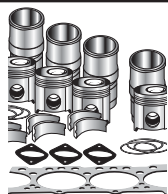
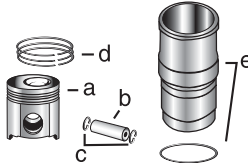
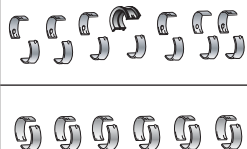
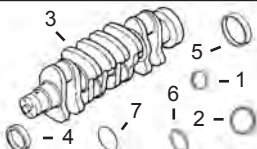
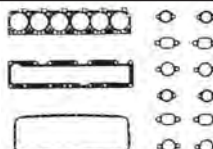
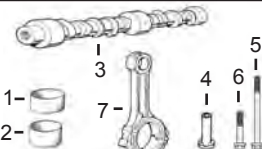
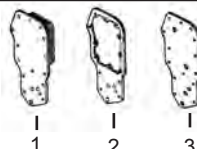
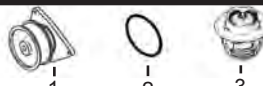
Engine Model CPL					
6CTA 8.3 (CDC 6.830) TURBOCHARGED AFTERCOOLED Piston Std (m): 3164, 9565, 9930 CUMMINS CPL's 604 1212 1547 2380 754 1222 1612 9803 755 1270 1633 9883 830 1273 1804 893 1321 1826 959 1377 1903 984 1539 2054 CASE-IH (Agricultural) 1670 Combine, ESN 44706126 > 1680 Combine, ESN 44706126 > 1688 Combine 1844 Cot Picker, PIN JJ002462 > 2044 Cot Picker, ESN 44706126 > 2055 Cot Picker 2155 Cot Picker, PIN > JJC0156230 2188 Combine, PIN > JJC0191483 7140 Tractor, ESN 44706126 > 7150 Tractor, ESN 44706126 > 9230 Tractor, ESN 44706126 > 9240 Tractor, ESN 44706126 > 9330 Tractor CASE (Construction) 6830TA Power Unit		  			
		Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thin Wall (•)	Cylinder Kit Thick Wall (••) Long Liner	Cylinder Kit Thick Wall (•••) Short Liner
		COK2401 Thin Wall COK2404 Thick Wall Long COK2404S Thick Wall Short To order an In-Frame Kit change OK to IK in above part number	C3802401 Consists of: a) C3923164 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	C3802404 Consists of: a) C3923164 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	C3802404S Consists of: a) C3923164 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)
					Main Bearing Set Con Rod Bearing C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1 C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)
					
		1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
		1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308
			1) Intake, Valve Kit 2) Insert, Valve 1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6	1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring 1) C3906412 x12 2) C3915707 x12 3) C3923564 x12 4) C3912976 x12
					(•) Block 3802265 (Thin Wall) Flange ø 5.223". (••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm). (•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm). (1) Order in multiples of two. (2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. (3) Only use on engines built from year 1991 onwards. (4) Do not use with Crankshaft part number 3965006. (5) Some applications use short nose pump C3806180 . (6) Marine applications use C3800975 .
		1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2	Oil Pump C3930338 (3415365)	1) Fuel Lift Pump 2) Fuel Pump Gsk 1) C3917998 2) C3914304	

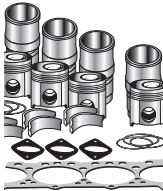
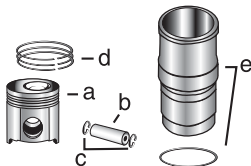
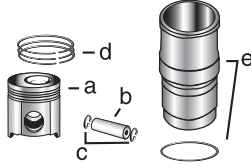
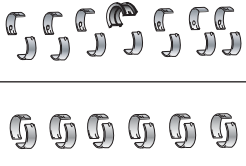
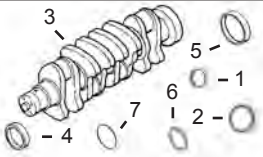
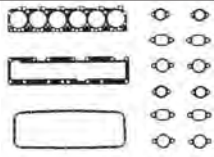
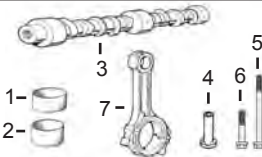
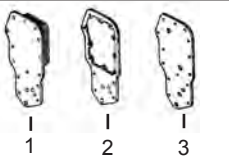
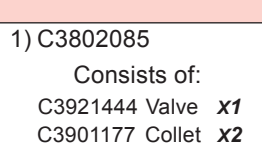
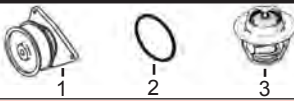
Engine Model CPL			
6CT 8.3 TURBOCHARGED Piston Std (m): 3165, 9931, 9567, 2396 CUMMINS CPL's 954 1399 1435			
			
		Engine Overhaul & Engine In Frame Kit COK2399 Thin Wall COK2402 Thick Wall To order an In-Frame Kit change OK to IK in above part number	Cylinder Kit Thin Wall Block (•) C3802399 Consists of: a) C3923165 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)
		Cylinder Kit Thick Wall Block (••) C3802402 Consists of: a) C3923165 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	Main Bearing Set Con Rod Bearing C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1 C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)
			
			
		1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket
		1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
		1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301
		1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308
		1) Intake, Valve Kit 2) Insert, Valve 1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 Use 6	1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 Use 6
		1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring 1) C3906412 x12 2) C3915707 x12 3) C3923564 x12 4) C3912976 x12	
			
			
		1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2	Oil Pump C3930338 (3415365) 1) C3917998 2) C3914304
		(•) Block 3802265 (Thin Wall) Flange ø 5.223". (••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm). (1) Order in multiples of two. (2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. (3) Only use on engines built from year 1991 onwards. (4) Do not use with Crankshaft part number 3965006. (5) Some applications use short nose pump C3806180. (6) Marine applications use C3800975.	

Engine Model CPL					
6CT 8.3		Engine Overhaul & Engine In Frame Kit		Main Bearing Set	
TURBOCHARGED		Cylinder Kit Thin Wall (•)		Cylinder Kit Thick Wall (••) Thick Wall (•••) Short Liner	
Piston Std (m): 7707		C3802388 Consists of: a) C3917707 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)		C3802406 Consists of: a) C3917707 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	
CUMMINS CPL's		C3802406S Consists of: a) C3917707 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)		C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1 C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)	
					
1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal		1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket		1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473		1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301		1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)	
		1) Intake, Valve Kit 2) Insert, Valve 1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6		1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6	
				(•) Block 3802265 (Thin Wall) Flange ø 5.223". (••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm). (•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm). (1) Order in multiples of two. (2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. (3) Only use on engines built from year 1991 onwards. (4) Do not use with Crankshaft part number 3965006. (5) Some applications use short nose pump C3806180. (6) Marine applications use C3800975.	
1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2		Oil Pump C3930338 (3415365) 1) Fuel Lift Pump 2) Fuel Pump Gsk 1) C3917998 2) C3914304			

Engine Model CPL								
6CT 8.3 TURBOCHARGED Piston Std (m): 9566 CUMMINS CPL's 1221 1929 * 8089 1282 * 2172 * 1366 2960 * Marine Engine								
		Engine Overhaul & Engine In Frame Kit		Cylinder Kit Thin Wall (•)	Cylinder Kit Thick Wall (••) Long Liner	Cylinder Kit Thick Wall (•••) Short Liner	Main Bearing Set	
		COK2372 Thin Wall		C3802372 Consists of:	C3802405 Consists of:	C3934580 Consists of:	Con Rod Bearing	
		COK2405 Thick Wall Long		a) C3919566 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	a) C3919566 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	a) C3919566 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1	
		COK4580 Thick Wall Short To order an In-Frame Kit change OK to IK in above part number						C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)
								
1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal		1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket		1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod		1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head		
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473		1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301		1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)		1) C3918175 2) C3918174 3) C3914308		
		1) Intake, Valve Kit 2) Insert, Valve 1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6		1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6		1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring 1) C3906412 x12 2) C3915707 x12 3) C3923564 x12 4) C3912976 x12		
				(•) Block 3802265 (Thin Wall) Flange ø 5.223". (••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm). (•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm). (1) Order in multiples of two. (2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. (3) Only use on engines built from year 1991 onwards. (4) Do not use with Crankshaft part number 3965006. (5) Some applications use short nose pump C3806180. (6) Marine applications use C3800975.				
1) Water Pump 2) Water Pump Seal 3) Thermostat		Oil Pump	1) Fuel Lift Pump 2) Fuel Pump Gsk					
1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2		C3930338 (3415365)	1) C3917998 2) C3914304					

Engine Model CPL						
6CTA 8.3						
TURBOCHARGED AFTERCOOLED						
EMISSION						
Piston Std (m): 9161						
CUMMINS CPL's 1845 2061 2642 1846 2062 2833 1943 2082 2874 1949 2118 2894 2007 2120 2055 2185 2056 2216 2057 2218 2060 2218						
			Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thick Wall (•) Long Liner	Cylinder Kit Thick Wall (••) Short Liner	Main Bearing Set
			COK9161L Thick Wall Long	CPLK9161L Consists of: a) C3929161 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	CPLK9161S Consists of: a) C3929161 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1
			COK9161S Thick Wall Short To order an In-Frame Kit change <u>OK</u> to <u>IK</u> in above part number			C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)
						
			1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft (Keyed) 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
			1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308
				1) Intake, Valve Kit 2) Insert, Valve 1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6	1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring 1) C3906412 x12 2) C3915707 x12 3) C3923564 x12 4) C3912976 x12
						
1) Water Pump 2) Water Pump Seal 3) Thermostat			Oil Pump	1) Fuel Lift Pump 2) Fuel Pump Gsk		
1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2			C3930338 (3415365)	1) C3917998 2) C3914304		

Engine Model CPL											
6CTA 8.3 TURBOCHARGED AFTERCOOLED Piston Std (m): 9247 CUMMINS CPL's 1371 1372 1684 2028 2381 2383											
		Engine Overhaul & Engine In Frame Kit		Cylinder Kit Thin Wall (•)		Cylinder Kit Thick Wall (••) Long Liner		Cylinder Kit Thick Wall (•••) Short Liner		Main Bearing Set Con Rod Bearing	
		COK9247 Thin Wall COK9247L Thick Wall Long COK9247S Thick Wall Short To order an In-Frame Kit change OK to IK in above part number		CPLK9247 Consists of: a) C3919247 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)		CPLK9247L Consists of: a) C3919247 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)		CPLK9247S Consists of: a) C3919247 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)		C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm Use 1 C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm Use 12 (1)	
											
1) Front Seal 2) Rear Seal 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal		1) Top Gasket Set 2) Bottom Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket		1) Bushing, Piston 2) Bushing, Camshaft 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod		1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head					
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473		1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301		1) C3913990 x6 2) C3943199 x7 3) C3924471 (2) 4) C3925031 5) C3917728 x14 (3) 6) C3917729 x12 (3) 7) C3901383 (4)		1) C3918175 2) C3918174 3) C3914308					
		1) Intake, Valve Kit 2) Insert, Valve 1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6		1) Exhaust, Valve Kit 2) Insert, Valve 1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6		1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring 1) C3906412 x12 2) C3915707 x12 3) C3923564 x12 4) C3912976 x12					
								(•) Block 3802265 (Thin Wall) Flange ø 5.223". (••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm). (•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm). (1) Order in multiples of two. (2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. (3) Only use on engines built from year 1991 onwards. (4) Do not use with Crankshaft part number 3965006. (5) Some applications use short nose pump C3806180. (6) Marine applications use C3800975.			
1) Water Pump 2) Water Pump Seal 3) Thermostat 1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2		Oil Pump C3930338 (3415365)		1) Fuel Lift Pump 2) Fuel Pump Gsk 1) C3917998 2) C3914304							

Engine Model CPL			
6CTA 8.3			
TURBOCHARGED AFTERCOOLED			
Piston Grade A (m): 5878			
CUMMINS CPL's 1563 1569 1917 1920 1923 1972 2018 2101 2103 2106 2108 2193 2194 2196 2307 2532 2556			
			
		Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thick Wall (•) Long Liner
		Cylinder Kit Thick Wall (••) Short Liner	Main Bearing Set Con Rod Bearing
		COK5878L Thick Wall Long	CPLK5878L
		COK5878S Thick Wall Short	CPLK5878S
		To order an In-Frame Kit change <u>OK</u> to <u>LK</u> in above part number	
			
			
		1) Front Seal 2) Rear Seal	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
		3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	
		1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C3918175 2) C3918174 3) C3914308
			
		1) Intake, Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring
		1) C3802463 Consists of: C3924492 Valve x1 C3901177 Collet x2 2) C3924582 Use 6	1) C3802085 Consists of: C3921444 Valve x1 C3901177 Collet x2 2) C3924583 Use 6
			
		1) Water Pump 2) Water Pump Seal 3) Thermostat	1) Fuel Lift Pump 2) Fuel Pump Gsk
		1) C3800976 (5) (6) 2) C3902089 3) C3928639 x2	1) C3917998 2) C3914304

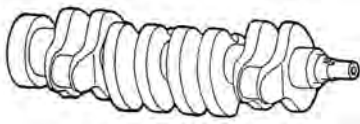
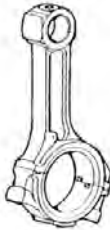
(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152",
(Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152",
(Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from
Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

Miscellaneous Parts

Available from Maxiforce

Part Number	Description	Engines
C3900687	Plug, Expansion	4B/6B
C3900956	Plug, Expansion	4B/6B
C3901097	Seal, Valve Stem, Black	4B/6B
C3901774	Gear, Ring Flywheel	4B/6B
C3902127	Flywheel Gear (138 Teeth)	B/C
C3902343	Dowel, Plug	4B/6B
C3902606	Plug, Expansion	4B/6B
C3903309	Flywheel Gear (173 Teeth)	B/C
C3903728	Washer, Flat	4B/6B
C3903794	Cover, Gear	4B/6B
C3903797	Block Bare, Cyl	6B
C3903920	Block Bare, Cyl	4B
C3905443	Gasket, Exhaust Manifold	6B
C3905427	Flywheel Gear (127 Teeth)	B/C
C3911558	Belt 59.0L	B/C
C3911563	Belt 60.5L	B/C
C3911568	Belt 67.0L	B
C3911582	Belt 70.0L	B/C
C3911587	Belt 53.5L	B/C
C3911588	Belt 56.0L	B/C
C3914086	Belt, Tensioner	B/C
C3925560	Damper	6C
C3920781	Rocker Lever Bolt	B

Torque Information for Cummins® B & C

			
ENGINE MODEL	CRANKSHAFT MAIN BEARING CAP BOLTS	CONROD BOLTS	CYLINDER HEAD BOLTS
B Series 4 & 6 Cyl. (Pre - 1991)	step 1 - 44 Lb.-ft. step 2 - 66 Lb.-ft. step 3 - Turn an additional 90°.	step 1 - 22 Lb.-ft. step 2 - 44 Lb.-ft. step 3 - Turn an additional 60°.	step 1 - 29 Lb.-ft. step 2 - 62 Lb.-ft. step 3 - 93 Lb.-ft.
B Series 4 & 6 Cyl. (1991 and After)	step 1 - 44 Lb.-ft. step 2 - 66 Lb.-ft. step 3 - Turn an additional 90°.	step 1 - 22 Lb.-ft. step 2 - 44 Lb.-ft. step 3 - Turn an additional 60°.	See Cummins Service Manual
C Series (Pre - 1991)	step 1 - 37 Lb.-ft. step 2 - 70 Lb.-ft. step 3 - Turn an additional 60°.	step 1 - 30 Lb.-ft. step 2 - 60 Lb.-ft. step 3 - 88 Lb.-ft.	step 1 - 27 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - 162 Lb.-ft.
C Series (1991 and After)	step 1 - 37 Lb.-ft. step 2 - 70 Lb.-ft. step 3 - Turn an additional 60°.	step 1 - 30 Lb.-ft. step 2 - 60 Lb.-ft. step 3 - 88 Lb.-ft.	See Cummins Service Manual
ISB Series 4 & 6 Cyl.	step 1 - 37 Lb.-ft. step 2 - 59 Lb.-ft. step 3 - Turn an additional 90°.	step 1 - 22 Lb.-ft. step 2 - 44 Lb.-ft. step 3 - Turn an additional 60°.	See Cummins Service Manual

Introduction to Perkins® Section

Engine models covered by this User's Guide

BORE DIAMETER mm / In	NUMBER OF CYLINDERS	ENGINE MODEL
79.375 / 3.1250	4	4.108
84.000 / 3.3000	4	104-22
84.000 / 3.3000	3	403C
84.000 / 3.3000	4	404C
91.491 / 3.6020	3	3.152
91.491 / 3.6020	4	4.203
98.476 / 3.8770	4	4.236
98.476 / 3.8770	6	6.354
100.000 / 3.9370	4	1004.40
100.000 / 3.9370	6	1006.60
100.000 / 3.9370	6	1106-E60TA
101.054 / 3.9785	4	4.248
103.000 / 4.055	4	1004.42
105.000 / 4.133	3	1103
105.000 / 4.133	4	1104
114.313 / 4.5005	4	4.318

Maxiforce Engine Kit Composition for Perkins® Engine Applications

POK: Engine Overhaul Kits Include: Cylinder kits, main and con rod bearing sets, thrust washer sets, front and rear seals, top and bottom gasket sets, conrod bushings, bolts and nuts, cam bushing and valve train kit.

PBK: Basic Engine Kits Include: All components in the **overhaul kit** with the exception of the valve train kit.

PVTK: Valve Train Kits Include: All valves, springs, guides, keepers and stem seals.

Crankshaft Kits Include: The crankshaft, main and con rod bearings and thrust washer sets.

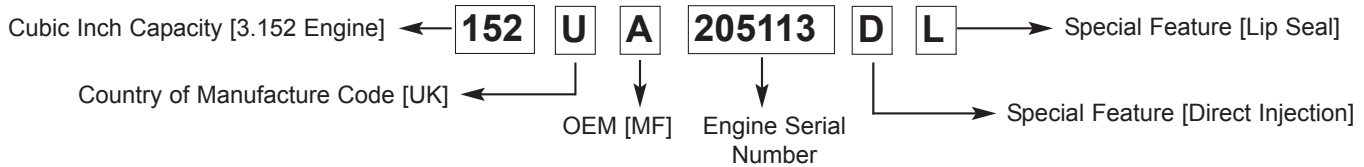
NB: Should engine kits be required without engine bearings and thrust washers, please specify by adding the **NB** suffix on kit part number. i.e: POK --- **NB**.

Engine Identification Guide

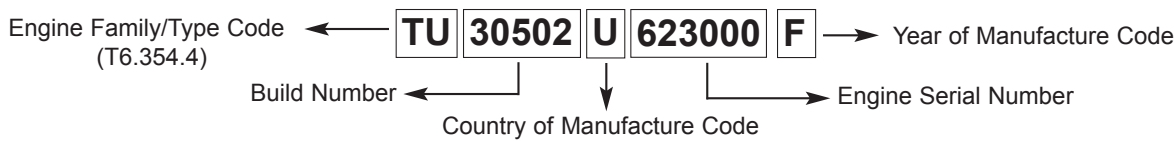
In many cases it is necessary to identify the Perkins Engine Number in order to ascertain the correct engine kit for an application. All Perkins® Engines should contain one of the two following formats for engine numbering (dependent on the year of manufacture):

Pre 1978 Engine Numbers:

This system, which consists of a maximum of 13 digits, was used from 1966 to late 1978. Another numbering method was used prior to 1966, which utilized a 7-digit number with no reference to engine series.



Current (post 1978) Engine Numbers:



Where to find your Engine Number



Engine Type	Position	Engine Type	Position	Engine Type	Position	Engine Type	Position
3.152	M	4.203	J or N	4.236	C or L	6.354	D
4.108	A	4.212/4.248	C	4.318	F	1000 / 1100 (A/B/C) Series	H or J

Engine Family / Type Code

AA	1004.40	AP	1004.40	DD	1103C-33T	JD	4.203	LJ	T4.236	TC	6.354	YB	1006.60T
AB	1004.40T	AQ	1004.40T	DE	1103C-33TA	JE	D4.203	NC	4.318	TE	T6.354	YC	1006.60T
AC	1004.40T	AR	1004.42	DF	1103B-33	JF	G4.203	RE	1104C-44	TG	6.354.1	YD	1006E-6TW
AD	1004.40TW	AS	1004.42	DG	1103B-33T	JG	4.203.2	RF	1104C-E44	TH	T6.354.1	YE	1006.60
AE	1004.40	AT	1004.40TA	DJ	1103A-33	KR	104.22	RG	1104C-44T	TJ	6.354.2	YF	1006.60S
AG	1004.40	CD	3.152	DK	1103A-33T	LA	4.212	RH	1104C-E44T	TK	C6.354.2	YG	1006.60
AH	1004.40	CE	D3.152	ED	4.108	LD	4.236	RJ	1104C-44TA	TT	TC6.354.1	YH	1006.60T
AJ	1004.40	CF	G3.152	HL	403C-15	LE	G4.236	RK	1104C-E44TA	TU	T6.354.4	YJ	1006.60TA
AK	1004.40T	CM	3.152.4	HM	403C-17	LF	4.248	RR	1104A-44	TW	6.354.4	YK	1006.60TW
AL	1004.40TA	CN	T3.152.4	HP	404C-22	LG	4.248.2	RS	1104A-44T	VK	1106C-E60TA		
AM	1004.40T	DC	1103C-33	HR	404C-22T	LH	C4.236	RT	1104A-44TA	YA	1006.60		

A	Air Cooled	C	Compensated	D	Direct Injection	E	Electronic	G	Gasoline	T	Turbocharged	W	Water Cooled
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Year of Manufacture Code

E	1978	J	1982	N	1986	U	1990	Y	1994	D	1998	H	2001	M	2005
F	1979	K	1983	P	1987	V	1991	A	1995	E	1/1/99 - 3/31/99	J	2002	N	2006
G	1980	L	1984	S	1988	W	1992	B	1996	F	4/1/99 - 12/31/99	K	2003	P	2007
H	1981	M	1985	T	1989	X	1993	C	1997	G	2000	L	2004	R/S	2008

Engine Application Chart

This chart refers to engine models and equipment using these engines. It has been divided into four sections:

Engine models, material handling and industrial applications, agricultural and marine, in that order. The chart will offer the reader the desired model and will indicate the page number where engine components are shown in detail.

MODEL	COMMENTS	PAGE	MODEL	COMMENTS	PAGE
3.152	AG. & INDUSTRIAL ESN > 1935853	P01	4.248	AGRICULTURAL ESN > UA123423L	P37
3.152	AG. & INDUSTRIAL ESN 1935854 >	P02	4.248	AGRICULTURAL ESN UA123424L >	P38
D3.152	AG. & INDUSTRIAL ESN > UA391044D	P03	4.248	INDUSTRIAL	P39
D3.152	AG. & INDUSTRIAL ESN UA391045DL >	P04	4.248.2	FORKLIFTS	P40
D3.152	INDUSTRIAL	P05	4.318	AGRICULTURAL	P41
D3.152	AG. & INDUSTRIAL ESN > UA391044DS	P06	6.354	AGRICULTURAL & INDUSTRIAL	P42
D3.152	AG. & INDUSTRIAL ESN UA391045DSL >	P07	6.354	AGRICULTURAL	P43
D3.152	AGRICULTURAL	P08	T6.354	AGRICULTURAL	P44
G3.152	AG. & INDUSTRIAL GASOLINE ENGINE	P09	T/TC6.354.1	AGRICULTURAL	P45
3.152.4	INDUSTRIAL	P10	6.354.1	AGRICULTURAL	P46
T3.152.4	AGRICULTURAL	P11	6.354.2	AGRICULTURAL	P47
4.108	INDUSTRIAL	P12	6.354.4	AGRICULTURAL & INDUSTRIAL	P48
4.108	MARINE	P13	6.354.4	AGRICULTURAL & INDUSTRIAL	P49
4.203	AG. & INDUSTRIAL ESN > 2820092	P14	6.354.4	AGRICULTURAL	P50
4.203	AG. & INDUSTRIAL ESN 2820093 >	P15	6.354.4	MARINE	P51
4.203	FORKLIFTS	P16	T6.354.4	AGRICULTURAL	P52
4.203	INDUSTRIAL	P17	T6.354.4	AGRICULTURAL	P53
D4.203	AG. & INDUSTRIAL ESN > 2939035	P18	T6.354.4	MARINE	P54
D4.203	AG. & INDUSTRIAL ESN 2939036 - 29C1084	P19	104-22	KR BUILDS	P55
D4.203	AG. & INDUSTRIAL ESN 29C1085 >	P20	403C-15	HL BUILDS	P56
D4.203	INDUSTRIAL ESN > U589378L	P21	403C-17	HM BUILDS	P57
D4.203	INDUSTRIAL ESN U589379L >	P22	404C-22	HP BUILDS	P58
4.203.2	FORKLIFTS	P23	404C-22T	HR BUILDS	P59
G4.203	INDUSTRIAL GASOLINE ENGINE	P24	1004.40	AA BUILDS	P60
4.212	AG & INDUSTRIAL ESN UA187117L >	P25	1004.40	AA BUILDS	P61
4.236	AG. & INDUSTRIAL ESN > U106654N	P26	1004.40T	AB/AH BUILDS ESN > U608300W (1992)	P62
4.236	AG. & INDUSTRIAL ESN U106655N >	P27	1004.40T	AB/AH BUILDS ESN U608301W (1992) >	P63
4.236	INDUSTRIAL ESN > U106654N	P28	1004.40T	YE, and some YD BUILDS	P64
4.236	INDUSTRIAL ESN U106655N >	P29	1004.40/40T	AJ, AK, AM, AP, AQ BUILDS	P65
G4.236	FORKLIFTS ESN > U106654N	P30	1004.42	AR, AS BUILDS	P66
G4.236	FORKLIFTS ESN U106655N >	P31	1006.60	AG. & INDUSTRIAL YA BUILDS	P67
C4.236	JCB ESN > U106654N	P32	1006.60T	ESN > 557976X YB, YD BUILDS	P68
C4.236	JCB ESN U106655N >	P33	1006.60T	ESN U557977X > YB, YD BUILDS	P69
T4.236	AG. ESN U106655N > / JCB ESN U027774M	P34	1006.60T	YE, and some YD BUILDS	P70
T4.236	INDUSTRIAL ESN > U106654N	P35	1006.60T	(YG) (YH) (YJ) (YK) BUILDS	P71
T4.236	INDUSTRIAL ESN U106655N >	P36	1103C	(DC) (DF) (DJ) (XK) BUILDS	P72

Engine Application Chart

MODEL	COMMENTS	PAGE	MODEL	COMMENTS	PAGE
1103C	1103C-33 (DC), 1103D-33 (XK)	P73	1104C	1104A-44T (RS)	P85
1103C	(DD) (DE) (DG) (DK) BUILDS	P74	1104C	1104A-44T (RS)	P86
1103C	1103C-33T (DD)	P75	1104C	1104C-44T (RG), 1104C-E44T (RH)	P87
1103C	1103C-33T (DD), 1103A-33 (DK)	P76	1104C	1104C-44T (RG), 1104C-E44T (RH)	P88
1103D	1103D-33T (XL), 1103D-33TA (XM)	P77	1104D	1104D-44 (NK)	P89
1103D	1103D-33T (XL), 1103D-33TA (XM)	P78	1104D	1104D-44 (NK)	P90
1104C	1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR)	P79	1104D	1104D-44 (NK)	P91
1104C	1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR)	P80	1104D	1104D-44T (NL), 1104D-44TA (NM)	P92
1104C	1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR)	P81	1104D	1104D-44T (NL), 1104D-44TA (NM)	P93
1104C	1104C-44 (RE), 1104C-E44 (RF), 1104A-44 (RR)	P82	1104D	1104D-44T (NL), 1104D-44TA (NM)	P94
1104C	(RG), (RH), (RK), (RS), (RT) BUILDS	P83	1104D	1104D-44T (NL), 1104D-44TA (NM)	P95
1104C	(RG), (RJ), (RK) BUILDS	P84	1106	1106-E60TA (VK)	P96

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
ALLIS CHALMERS				
40-50 Forklift	4.203	ESN U76357L >	JD22458	P17
700 Forklift	4.203	ESN U74103CL >	JD22028	P17
715B Loader	4.236	ESN > U106654N	LD22682	P28
715B Loader	4.236	ESN U106655N >	LD22682	P29
840 Loader	4.248		LF21617	P39
ACP40/50D	4.203		JD22533	P17
D175 Tractor	4.248		LF21274	P39
JCP 40-50 Forklift	4.203.2		JG80031	P23
BOBCAT				
Telehandler	1104C/E		RG37985	P83
Telehandler	1104C/E		RG37985	P88
V723 Forklift	1104C/E		RG	P83
CATERPILLAR				
6-8000 lb Forklift	4.236	ESN U106655N >	LD22242	P29
RT	G4.236	ESN > U106654N	LE70110	P30
RT	G4.236	ESN U106655N >	LE70110	P31
T500-1500	G4.236	ESN > U106654N	LE70148	P30
T500-1500	G4.236	ESN U106655N >	LE70148	P31
T50-150D	4.248.2		LG70109	P40
T80D	4.248.2		LG70149	P40
V/T40C Forklift	4.203.2		JG70092	P23
V100-140	G4.236	ESN > U106654N	LE70094	P30
V100-140	G4.236	ESN U106655N >	LE70094	P31
V40-60C Forklift	4.203.2		JG70020	P23
V60C	4.248.2		LG70069	P40
V60C	4.248.2		LG70091	P40
V80D	G4.236	ESN > U106654N	LE70089	P30
V80D	G4.236	ESN U106655N >	LE70089	P31
V80D	4.248.2		LG70067	P40
V80D	4.248.2		LG70090	P40

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
CLARK EQUIPMENT				
16000-30000	6.354.4		TW70007	P48
45C Shovel	6.354.4		TW70016	P49
C500 (H) 60-70-80D	4.203.2		JG70099	P23
C500 (H) 60-80	4.248.2		LG70159	P40
C500-160-300D	6.354.4		TW70142	P48
C500-CY-160-300	6.354		TC22266	P42
C500Y-100-150	4.248.2		LG70104	P40
C500Y-40-560	4.203.2		JG70100	P23
C500Y-40-560	4.203.2		JG70143	P23
C500-Y60	G4.236	ESN > U106654N	LE80173	P30
C500-Y60	G4.236	ESN > U106654N	LE22376	P30
C500-Y60	G4.236	ESN U106655N >	LE80173	P31
C500-Y60	G4.236	ESN U106655N >	LE22376	P31
C60-70-80	4.203		JD21383	P16
CTD20-50	4.248.2		LG70097	P40
CTD20-50	4.248.2		LG70106	P40
CY-30-40-55	4.203		JD21493	P16
CY40-60	4.203		JD22117	P16
CY60-70-80B	4.236	ESN > U106654N	LD21386	P28
CY60-70-80B	4.236	ESN U106655N >	LD21386	P29
Tow Tractor	4.236	ESN > U106654N	LD21324	P28
Tow Tractor	4.236	ESN U106655N >	LD21324	P29
EATON CORP				
Forklift	G4.203		JF22668	P24
Forklift	G4.236	ESN > U106654N	LE80177	P30
Forklift	G4.236	ESN U106655N >	LE80177	P31
GEHL MFG				
4600 Skid Loader	4.108		ED70048	P12
Skid Steer Loader	1104C/E		RE37911	P82
HYSTER				
C300 Compactor	4.236	ESN > U106654N	LD70119	P28
C300 Compactor	4.236	ESN U106655N >	LD70119	P29
Forklift	1104C/E		RE38037	P82
H110-150	4.236	ESN > U106654N	LD70121	P28
H110-150	4.236	ESN U106655N >	LD70121	P29
H150-250	6.354		TC20102	P42
H150-275-300-350H	6.354.4		TW70005	P48
H165-280 Forklift	1006.6		YA70217	P67
H40F	4.203		JD20074	P16
H40H	4.203		JD21708	P16
H60-110E	4.248.2		LG70127	P40
H60-80C	4.203.2		JG70040	P23
H60-80E	4.203.2		JG70113	P23
H60-80E	4.248.2		LG70063	P40
H70-155XL	1004.4		AA70218	P60
S60-100	4.236	ESN > U106654N	LD70115	P28
S60-100	4.236	ESN U106655N >	LD70115	P29
S60B-H60C	4.203		JD20680	P16
S80-S155XL	1004.4		AA70216	P60

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
INGRESOLL RAND COMPRESSORS				
DRP 85S 85CFM	D3.152	ESN U79698D >	CE22236	P05
MODEL 85	D3.152		CE21575	P05
JCB				
200 Loader	C4.236	ESN > U106654N	LH50205	P32
200 Loader	C4.236	ESN > U106654N	LH50226	P32
200 Loader	C4.236	ESN U106655N >	LH50205	P33
200 Loader	C4.236	ESN U106655N >	LH50226	P33
3CX Backhoe	4.236	ESN > U106654N	LD50096	P26
3CX Backhoe	4.236	ESN U106655N >	LD50096	P27
3CX Backhoe	C4.236	ESN > U106654N	LH50133	P32
3CX Backhoe	C4.236	ESN U106655N >	LH50133	P33
3CX Backhoe	1004.4		AA50508	P60
3CX Backhoe	1004.40T	ESN > U608300W (1992)	AB50609	P62
3CX Backhoe	1004.40T	ESN > U608300W (1992)	AB50279	P62
3CX Backhoe	1004.40T	ESN U608301W > (1992)	AB50609	P63
3CX Backhoe	1004.40T	ESN U608301W > (1992)	AB50279	P63
410 Loader	4.236	ESN > U106654N	LD50105	P26
410 Loader	4.236	ESN U106655N >	LD50105	P27
410M Forklift	T4.236	ESN U027774M >	LJ50201	P34
415 Loader	T4.236	ESN U027774M >	LJ50224	P34
415 Loader	1004.40T	ESN > U608300W (1992)	AB50253	P62
415 Loader	1004.40T	ESN U608301W > (1992)	AB50253	P63
418 Wheel Loader	T6.354.4		TU50037	P53
435 Front Loader	1006.60T	ESN > 557976X	YB50292	P68
435 Front Loader	1006.60T	ESN 557977X >	YB50292	P69
4CX Backhoe	T4.236	ESN U027774M >	LJ50117	P34
520 Handler	4.236	ESN > U106654N	LD50103	P26
520 Handler	4.236	ESN U106655N >	LD50103	P27
520S Loadall	T4.236	ESN U027774M >	LJ50183	P34
Backhoe	1004.40/40T		AK50628	P65
Backhoe Loader	1004.4		AA50608	P60
Backhoe Loader	1104C/E		RE38238	P79
Industrial	1006.6		YA50339	P67
Industrial	1104C/E		RE38082	P80
JCB Telehandler	1104C/E		RJ51136	P84
Shovel Loader	1004.40/40T		AM50610	P65
Sleeveless Engine	1004.42		AR50690	P66
Telehandler	1104C/E		RE51141	P81
Telehandler	1104C/E		RG38084	P84
Wheel Loader	1006.6		YA50214	P67
JLG				
G5-18A	1104D	*	*	P89
G5-18A	1104D	*	*	P90
G5-18A	1104D	*	*	P91
LINCOLN ELECTRIC				
500 Amp Welder	4.236	ESN > U106654N	LD50148	P28
500 Amp Welder	4.236	ESN U106655N >	LD50148	P29
Welder	D3.152		CE95231	P05

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
LOAD LIFTER				
2200-10D	1104D-44T	*	*	P92
2200-10D	1104D-44T	*	*	P93
2200-10D	1104D-44T	*	*	P94
2200-10D	1104D-44T	*	*	P95
2200-12D	1104D-44T	*	*	P92
2200-12D	1104D-44T	*	*	P93
2200-12D	1104D-44T	*	*	P94
2200-12D	1104D-44T	*	*	P95
2200-18D	1104D-44T	*	*	P92
2200-18D	1104D-44T	*	*	P93
2200-18D	1104D-44T	*	*	P94
2200-18D	1104D-44T	*	*	P95
2200-4D	1104D-44T	*	*	P92
2200-4D	1104D-44T	*	*	P93
2200-4D	1104D-44T	*	*	P94
2200-4D	1104D-44T	*	*	P95
2200-5D	1104D-44T	*	*	P92
2200-5D	1104D-44T	*	*	P93
2200-5D	1104D-44T	*	*	P94
2200-5D	1104D-44T	*	*	P95
2200-6D	1104D-44T	*	*	P92
2200-6D	1104D-44T	*	*	P93
2200-6D	1104D-44T	*	*	P94
2200-6D	1104D-44T	*	*	P95
2200-8D	1104D-44T	*	*	P92
2200-8D	1104D-44T	*	*	P93
2200-8D	1104D-44T	*	*	P94
2200-8D	1104D-44T	*	*	P95
4400-10F	1104D-44T	*	*	P92
4400-10F	1104D-44T	*	*	P93
4400-10F	1104D-44T	*	*	P94
4400-10F	1104D-44T	*	*	P95
4400-12F	1104D-44T	*	*	P92
4400-12F	1104D-44T	*	*	P93
4400-12F	1104D-44T	*	*	P94
4400-12F	1104D-44T	*	*	P95
4400-18F	1106-E60TA	*	*	P96
4400-20F	1106-E60TA	*	*	P96
4400-5D	1104D-44T	*	*	P92
4400-5D	1104D-44T	*	*	P93
4400-5D	1104D-44T	*	*	P94
4400-5D	1104D-44T	*	*	P95
4400-6D	1104D-44T	*	*	P92
4400-6D	1104D-44T	*	*	P93
4400-6D	1104D-44T	*	*	P94
4400-6D	1104D-44T	*	*	P95
4400-8D	1104D-44T	*	*	P92
4400-8D	1104D-44T	*	*	P93
4400-8D	1104D-44T	*	*	P94
4400-8D	1104D-44T	*	*	P95

Material Handling and Industrial Application Equipment Chart

<i>EQUIPMENT MODEL</i>	<i>ENGINE</i>	<i>ENGINE SERIAL NUMBER</i>	<i>BUILD NUMBER</i>	<i>PAGE</i>
ARM8T36-E	1104D-44T	*	*	P92
ARM8T36-E	1104D-44T	*	*	P93
ARM8T36-E	1104D-44T	*	*	P94
ARM8T36-E	1104D-44T	*	*	P95
ARM8T42-E	1104D-44T	*	*	P92
ARM8T42-E	1104D-44T	*	*	P93
ARM8T42-E	1104D-44T	*	*	P94
ARM8T42-E	1104D-44T	*	*	P95
ARM-XL 20T32-E	1106-E60TA	*	*	P96
ARM-XL 20T42-E	1106-E60TA	*	*	P96
Laborer 6000	1104D-44T	*	*	P92
Laborer 6000	1104D-44T	*	*	P93
Laborer 6000	1104D-44T	*	*	P94
Laborer 6000	1104D-44T	*	*	P95
Laborer 8000	1104D-44T	*	*	P92
Laborer 8000	1104D-44T	*	*	P93
Laborer 8000	1104D-44T	*	*	P94
Laborer 8000	1104D-44T	*	*	P95
LK6M22	1104D-44T	*	*	P92
LK6M22	1104D-44T	*	*	P93
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LK6M22	1104D-44T	*	*	P95
LK6M42	1104D-44T	*	*	P92
LK6M42	1104D-44T	*	*	P93
LK6M42	1104D-44T	*	*	P94
LK6M42	1104D-44T	*	*	P95
LK6P44-B	1104D-44T	*	*	P92
LK6P44-B	1104D-44T	*	*	P93
LK6P44-B	1104D-44T	*	*	P94
LK6P44-B	1104D-44T	*	*	P95
MHT 780	1104D-E44TA	*	*	P92
MHT 780	1104D-E44TA	*	*	P93
MHT 780	1104D-E44TA	*	*	P94
MHT 780	1104D-E44TA	*	*	P95
<i>MANITEX LIFTKING</i>				
2200-15D	1104D-44T	*	*	P92
2200-15D	1104D-44T	*	*	P93
2200-15D	1104D-44T	*	*	P94
2200-15D	1104D-44T	*	*	P95
2425 HERC	1106-E60TA	*	*	P96
842-GReach	1104D-44T	*	*	P92
842-GReach	1104D-44T	*	*	P93
842-GReach	1104D-44T	*	*	P94
842-GReach	1104D-44T	*	*	P95
ARM6T36-E	1104D-44T	*	*	P92
ARM6T36-E	1104D-44T	*	*	P93
ARM6T36-E	1104D-44T	*	*	P94
ARM6T36-E	1104D-44T	*	*	P95
LK10M22	1104D-44T	*	*	P92
LK10M22	1104D-44T	*	*	P93
LK10M22	1104D-44T	*	*	P94

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
LK10M22	1104D-44T	*	*	P95
LK10M42	1104D-44T	*	*	P92
LK10M42	1104D-44T	*	*	P93
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LK10M42	1104D-44T	*	*	P95
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20	D3.152	ESN UA391045DL >		P04
20	G3.152			P09
20C	D3.152	ESN > UA391044DS		P06
20C	D3.152	ESN UA391045DSL >		P07
30	D4.203	ESN 29C1085 >		P20
30B	D3.152	ESN > UA391044DS		P06
30B	D3.152	ESN UA391045DSL >		P07
35 Utility	3.152	ESN > 1935853		P01
35 Utility	3.152	ESN 1935854 >		P02
40	D3.152	ESN > UA391044D		P03
40	D3.152	ESN UA391045DL >		P04
40	G3.152			P09
40B	D4.203	ESN 29C1085 >		P20
50	D4.203	ESN 29C1085 >		P20
50C	4.236	ESN > U106654N	LD22824	P26
50C	4.236	ESN U106655N >	LD22824	P27
50H	4.248	ESN UA123424L >		P38
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203	3.152	ESN > 1935853		P01
203	3.152	ESN 1935854 >		P02
203	D3.152	ESN > UA391044D		P03
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356 Tractor Shovel	4.203	ESN 2820093 >		P15
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35	3.152	ESN 1935854 >		P02
50	3.152	ESN > 1935853		P01
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65	4.203	ESN > 2820092		P14
65	4.203	ESN 2820093 >		P15
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65	D4.203	ESN 2939036 - 29C1084		P19
65	D4.203	ESN 29C1085 >		P20
135	D3.152	ESN > UA391044D		P03
135	D3.152	ESN UA391045DL >		P04
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235	D3.152	ESN UA391045DL >		P04
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275	4.248	ESN UA123424L >	LF22312/3	P38
275 Tractor	4.248	ESN > UA123423L		P37
285	4.248	ESN UA123424L >	LF22471	P38
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540 Combine	4.318		NC22699	P41
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560	T6.354.4		TU31126	P52
590	4.248	ESN UA123424L >	LF22486	P38
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698	T4.236	ESN U106655N >	LJ31131	P34
699	6.354.4		TW31125	P50
750	T/TC6.354.1			P45
760	T/TC6.354.1	ESN UA48970L >	TH21794	P45
850	T6.354.4		TU31006	P52
1014	6.354.4		TW31087	P48
1085	4.318		NC21725	P41
1100	6.354	ESN > 354UA10361		P42
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5465	1106T		VK31483	P96
5465	1106T		VK31486	P96
5465	1106T		VK31505	P96
6180	1006.60T		YH31310	P71
6360	1106T		VK31483	P96
6370	1106T		VK31484	P96
6380	1106T		VK31485	P96
6445	1104C/E		RG37832	P87
6445	1104C/E		RG37915	P87
6445	1104C/E		RG38120	P87
6445	1104C/E		RG38121	P87
6465	1106T		VK31483	P96
6465	1106T		VK31486	P96
6465	1106T		VK31505	P96
6475	1106T		VK31484	P96
6475	1106T		VK31487	P96
6475	1106T		VK31503	P96
6475	1106T		VK31506	P96
6480	1106T		VK31485	P96
6480	1106T		VK31507	P96
7465	1106T		VK31486	P96
7465	1106T		VK31505	P96
7475	1106T		VK31487	P96
7475	1106T		VK31503	P96
7475	1106T		VK31506	P96

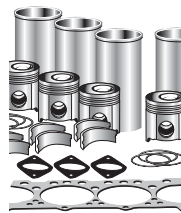
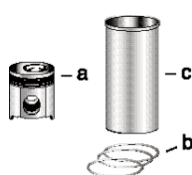
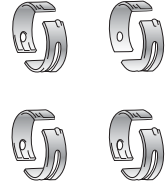
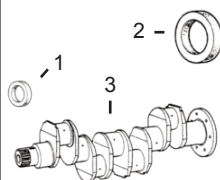
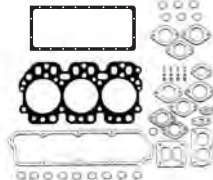
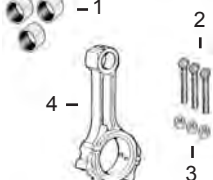
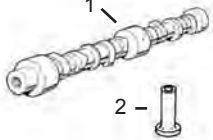
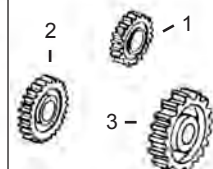
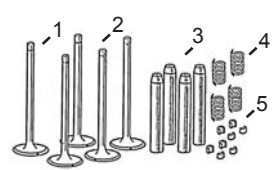
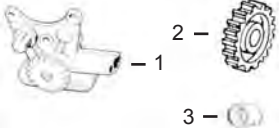
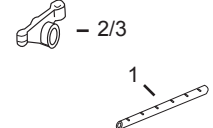
Agricultural Application Equipment Chart

<i>EQUIPMENT MODEL</i>	<i>ENGINE</i>	<i>ENGINE SERIAL NUMBER</i>	<i>BUILD NUMBER</i>	<i>PAGE</i>
7480	1106T		VK31507	P96
RX95	T6.354.4		TU31010	P53
Tractor	1004.40/40T		AK31299	P65
Tractor	1104C/E		RE38396	P80
Tractor	1104C/E		RE38396	P84
TX550 Combine	6.354.4		TW31015	P48
TX750	T6.354.4		TU31006	P52
McCORMICK				
MTX110	1006.60T		YH50918	P71
MTX125	1006.60T		YH50919	P71
MTX140	1006.60T		YH50920	P71
MTX155	1006.60T		YH50921	P71
MTX170	1006.60T		YJ51192	P71
Wheeled Tractors	1106T		VK37779 to VK37787	P96
NEW HOLLAND				
Stack Cruiser	6.354.4		TW70031	P49
NEW IDEA				
Combine	T/TC6.354.1		TH22481	P45
SPERRY NEW HOLLAND				
L555 Skid Loader	4.108		ED70077	P12
L779 Skid Steer Loader	4.203.2		JG70043	P23
L779 Skid Steer Loader	4.203.2		JG70156	P23
WHITE FARM				
2-85 Tractor	6.354.1		TG22453	P46
2-85 Tractor	6.354.4		TW70008	P50
2-105	T/TC6.354.1		TH22282	P45
2-105	T/TC6.354.4		TU70018	P53
7600 Combine	6.354.2		TJ22189	P47
8600 Combine	6.354.4		TW70114	P48
8600 Combine	6.354.4		TW70003	P49
8800 Combine	T6.354.4		TU70001	P52

Marine Application Equipment Chart

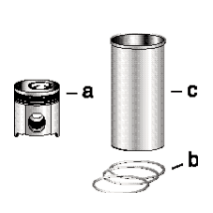
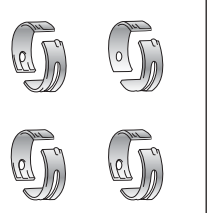
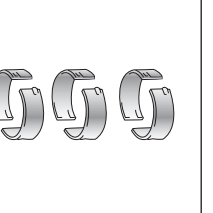
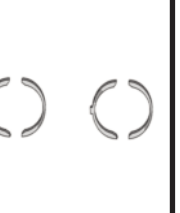
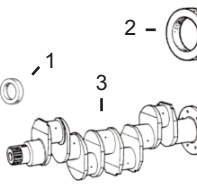
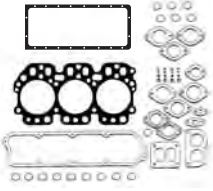
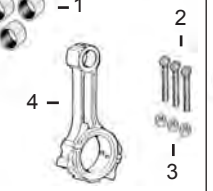
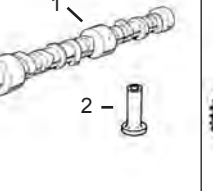
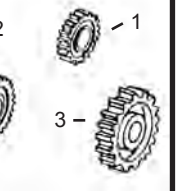
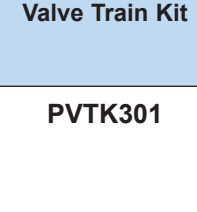
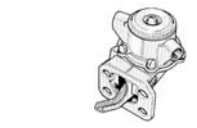
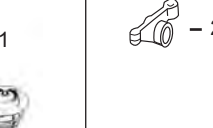
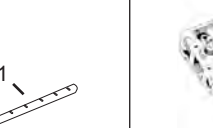
<i>EQUIPMENT MODEL</i>	<i>ENGINE</i>	<i>ENGINE SERIAL NUMBER</i>	<i>BUILD NUMBER</i>	<i>PAGE</i>
Commercial/Pleasure Craft 4.108			ED70058	P13
Commercial/Pleasure Craft 6.354.4			TW70087	P51
Perkins USA	4.108		ED22195	P13
Pleasure Craft	4.108		ED33210	P13
Pleasure Craft	4.108		ED50033	P13
Pleasure Craft	6.354.4		TW33196/7	P51
Pleasure Craft	T6.354.4		TU33203	P54
Pleasure Craft	T6.354.4		TU70025	P54
Pleasure Craft T6.354.4			TU70027	P54
44GM Electropak	1004.4		AA30415	P61
44GM Electropak	1004.4		AA30416	P61
4.4TGM	1104C/E		RG30881	P88
44TW2GM	1104C/E		RJ30890	P83

* Choose proper engine for this application. In doubt call our Technical support line **(800) 414-2095**.

Engine & Equipment Application					
3.152 INDIRECT INJECTION 3 Cyl, Rope Seal Bore: 3.6020 in 91.491 mm To ESN 1935853 APPLICATIONS: MF AGRICULTURAL 35 50 MF INDUSTRIAL 35 Utility 203 205					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK152 Consists of:	P68084 Std.	P85036 Std.	P31137211/21
	1) POK301	a) P81512 (1)	P68084A .010 P68084B .020 P68084C .030	P85036A .010 P85036B .020 P85036C .030	
	2) PBK301	b) P41158057 c) P31358308 (2)			
		3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Camshaft 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P36883106 x2 3) PZZ90116	1) PU5LT0012 2) PU5LB0012 3) P36812136	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90011	1) P31415261 2) P0860012	1) P0410132 2) P0410241 3) P31164362
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	PVTK301	1) P31431261 x3 2) P0910002 x3	3) P33261723 x6	a) P0780006 x6	5) P0230001 x12
					
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265	P2641408	1a) PU5MW0023 b) P41312784 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80048 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

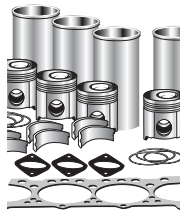
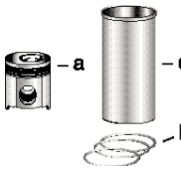
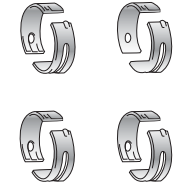
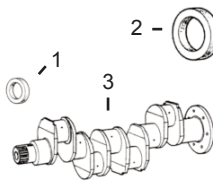
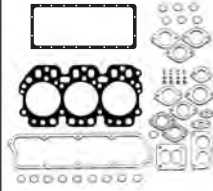
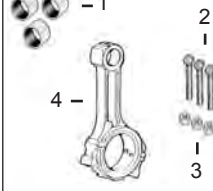
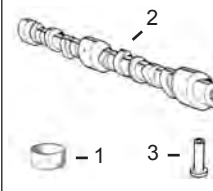
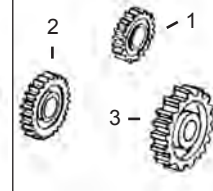
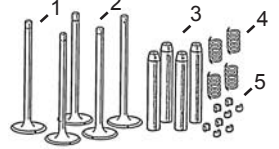
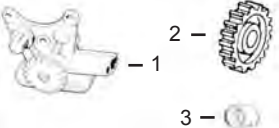
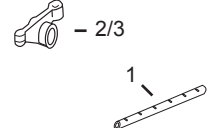
(1) Flat Head Piston.

(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

Engine & Equipment Application						
3.152						
INDIRECT INJECTION						
3 Cyl, Rope Seal						
Bore: 3.6020 in 91.491 mm						
From ESN 1935854						
APPLICATIONS:						
MF AGRICULTURAL						
35 50						
MF INDUSTRIAL						
35 Utility 203 205						
						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PU5MK0033 Consists of:	P68084 Std.	P85036 Std.	P31137211/21
		1) POK302	a) P81512 (1)	P68084A .010	P85036A .010	
		2) PBK302	b) P41158057	P68084B .020	P85036B .020	
			c) P31358345 (2)	P68084C .030	P85036C .030	
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
						
		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Camshaft	1) Crankshaft Gear
		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Tappet	2) Camshaft Gear
		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod		3) Idler Gear
				4) Con Rod		
		1) P2415344	1) PU5LT0012	1) P31134151 x3	1) P31415261	1) P0410132
		2) P36883106 x2	2) PU5LB0012	2) P0095250 x6	2) P0860012	2) P0410241
		3) PZZ90116	3) P36812136	3) P33221327 x6		3) P31164362
				4) PZZ90011		
			Valve Train Kit	1) Valve, Intake	4) Spring, Valve	5) Lock, Valve
				2) Valve, Exhaust	a) Outer	
			PVTK301	3) Guide, Valve (Intake & Exhaust)		
			1) P31431261 x3	4) Spring, Valve		
			2) P0910002 x3	a) Outer		
				3) P33261723 x6	a) P0780006 x6	5) P0230001 x12
						
		1) Oil Pump	Lift Pump	1) Water Pump	1) Rocker Shaft	1) Cylinder Head (With Valves)
		2) Oil Pump Drive Gear		a) Without Pulley	2) Rocker Arm LH	2) Glowplug
		3) Bushing, Drive Gear		b) With Pulley	3) Rocker Arm RH	
				2) Thermostat		
		1) P41314078	P2641408	1a) PU5MW0023	1) PZZ90047	1) PZZ80048
		2) P41115025		b) P41312784	2) P3737A101	2) P2666103
		3) P0050265		2) P2485666	3) P3737A091	(Screw Fitting) P2666108 (Bayonet Fitting)

(1) Flat Head Piston.

 (2) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application						
D3.152						
DIRECT INJECTION						
3 Cyl, Rope Seal						
Bore: 3.6020 in 91.491 mm						
ESN ending with D & to UA391044D						
APPLICATIONS:						
MF AGRICULTURAL						
135 150 230 235						
MF INDUSTRIAL						
20 40 200 Crawler 203 205 2135 2200 Forklift & Treever 2244 Crawler 2500 Forklift						
						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PU5MK0034 Consists of:	P68084 Std.	P85036 Std.	P31137211/21
		1) POK303	a) P68332	P68084A .010	P85036A .010	
		2) PBK303	b) P41158057	P68084B .020	P85036B .020	
			c) P31358345 (3)	P68084C .030	P85036C .030	
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
		3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet	2) Camshaft Gear 3) Idler Gear
		1) P2415344 2) P36883106 x2 3) PZZ90116	1) PU5LT0038 2) PU5LB0012 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010	1) P31134128 x1 2) P31415261 3) P0860012	1) P0410132 2) P0410241 3) P31164362
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer
			PVTK302	1) P31431281 x3 2) P31431591 x3	3) P33261723 x6	4) P0780006 x6
						5) Lock, Valve 5) P0230001 x12
						
		1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug
		1) P41314078 2) P41115025 3) P0050265	P2641408 (1) P2641A063 (2)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80082 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)

(1) To Engine No: UA38571D.

(2) From Engine No: UA38572D.

(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

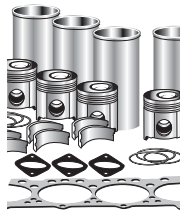
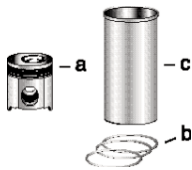
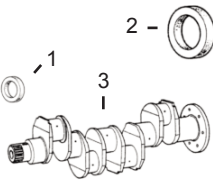
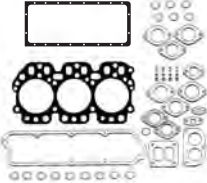
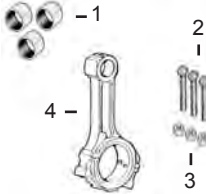
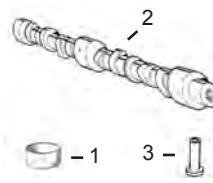
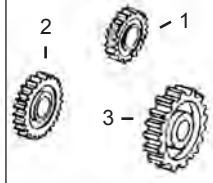
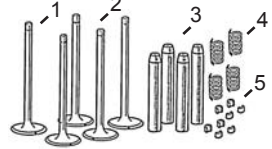
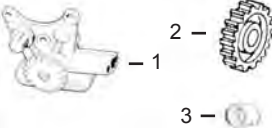
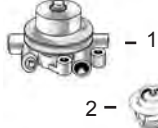
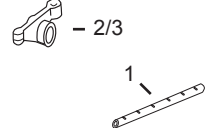
Engine & Equipment Application					
D3.152					
DIRECT INJECTION					
3 Cyl, Lip Seal					
Bore: 3.6020 in 91.491 mm					
ESN Ending with DL from UA391045DL					
APPLICATIONS:					
LANDINI TRACTORS 4500 4830					
MF AGRICULTURAL 135 230 235					
MF INDUSTRIAL 20 40					
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	PVTK303	1) P31431681 x3 2) P31431011 x3	3) P33261723 x6	a) P0780006 x6	5) P0230001 x12
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265	P2641A063 (1) P2641808 (2)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80082 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

(1) To Engine No: U635848G (2 Hole).

(2) From Engine No: U635849G (4 Hole).

(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

(4) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK304NB and nominate the bearings.

Engine & Equipment Application						
D3.152						
DIRECT INJECTION						
3 Cyl, Lip Seal						
Bore: 3.6020 in 91.491 mm						
APPLICATIONS:						
INGERSOLL RAND COMPRESSORS						
Model 85 (CE21575) DRP 85S 85CFM (CE22236) (2)						
LINCOLN ELECTRIC Welder (CE95231)						
						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PU5MK0034 Consists of:	P68084 Std. (3)	P85036 Std.	P31137211/21
		1) POK309	a) P68332	P68084A .010	P85036A .010	
			b) P41158057	P68084B .020	P85036B .020	
		2) PBK309	c) P31358345 (1)	P68084C .030	P85036C .030	
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
						
		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	2) Camshaft Gear
		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Tappet	3) Idler Gear
				4) Con Rod		
		1) P2415344 2) P2418F475 3) PZZ90078 (7)	1) PU5LT0038 2) PU5LB0010 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010 (4)	1) P31134128 x1 2) P31415261 3) P0860012	1) P0410132 (7) 2) P0410241 3) P31164362
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	4) Spring, Valve a) Outer	5) Lock, Valve
			PVTK303	1) P31431681 x3 2) P31431011 x3	a) P0780006 x6	5) P0230001 x12
						
		1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug
		1) P41314078 2) P41115025 3) P0050265	P2641408 (5) P2641808 (6)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80082 2) P2666103 (Screw Fitting)

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) From ESN U79698DL.
(3) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK309NB and nominate the bearings.

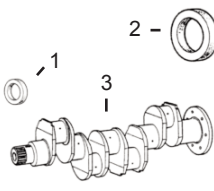
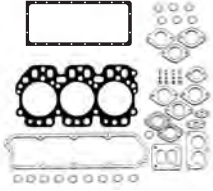
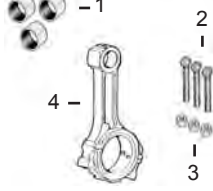
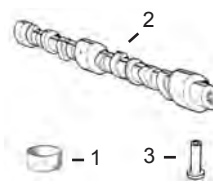
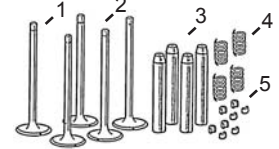
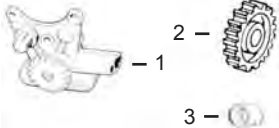
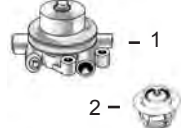
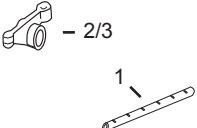
(4) Build CE95231 Uses **PZZ90011**.
(5) To Engine No: U635848G (2 Hole).
(6) From Engine No: U635849G (4 Hole).
(7) Not used on Build No: CE95231.

Engine & Equipment Application					
D3.152					
DIRECT INJECTION					
3 Cyl, Rope Seal					
Bore: 3.6020 in 91.491 mm					
To ESN UA391044DS					
APPLICATIONS:					
MF AGRICULTURAL 235 (CE22309) 245					
MF INDUSTRIAL 20C 30B					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0117 Consists of: a) P89214 b) P41158065 c) P31358345 (3)	P68084 Std. P68084A .010 P68084B .020 P68084C .030	P85036 Std. P85036A .010 P85036B .020 P85036C .030	P31137211/21
	1) POK305				
	2) PBK305	3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P36883106 x2 3) PZZ90116	1) PU5LT0038 2) PU5LB0012 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010	1) P31134128 x1 2) P31415261 3) P0860012	1) P0410132 2) P0410241 3) P31164362
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer
		PVTK303	1) P31431681 x3 2) P31431011 x3	3) P33261723 x6	a) P0780006 x6
	1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug
	1) P41314078 2) P41115025 3) P0050265	P2641A063 (1) P2641808 (2)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80082 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)

(1) To Engine No: U635848G (2 Hole).

(2) From Engine No: U635849G (4 Hole).

(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application						
D3.152						
DIRECT INJECTION						
3 Cyl, Lip Seal						
Bore: 3.6020 in 91.491 mm						
From ESN UA391045DSL						
APPLICATIONS:						
LANDINI TRACTORS						
5500 5530 5530F 5830 5840						
MF AGRICULTURAL						
235 (CE22309/10/11) 245 250 (CE31089)						
MF INDUSTRIAL						
20C 30B						
						
1) Engine O/H Kit		Piston-Liner Kit	Main Bearing Set		Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit		PU5MK0117 Consists of:	P68084	Std. (4)	P85036	Std.
1) POK306		a) P89214	P68084A	.010	P85036A	.010
		b) P41158065	P68084B	.020	P85036B	.020
2) PBK306		c) P31358345 (3)	P68084C	.030	P85036C	.030
		3 Per Engine	Set of 4 Pairs		Set of 3 Pairs	Set of 2 Pairs
						
1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod		1) Bushing, Cam 2) Camshaft 3) Tappet	
3) Crankshaft Kit		3) Head Gasket	4) Con Rod		1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear	
1) P2415344 2) P2418F475 3) PZZ90078		1) PU5LT0038 2) PU5LB0011 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010		1) P31134128 x1 2) P31415261 3) P0860012	
					1) P0410132 2) P0410241 3) P31164362	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust		4) Spring, Valve a) Outer	
		PVTK303	1) P31431681 x3 2) P31431011 x3		a) P0780006 x6	
			3) P33261723 x6		5) P0230001 x12	
						
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear		Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	
1) P41314078 2) P41115025 3) P0050265		P2641A063 (1) P2641808 (2)	1a) PU5MW0023 b) P41312874 2) P2485666		1) PZZ90047 2) P3737A101 3) P3737A091	
					1) PZZ80082 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

(1) To Engine No: U635848G (2 Hole).

(2) From Engine No: U635849G (4 Hole).

(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

(4) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK306NB and nominate the bearings.

Engine & Equipment Application					
D3.152 DIRECT INJECTION 3 Cyl, Lip Seal Bore: 3.6020 in 91.491 mm					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0034 Consists of:	P68084 Std. (6)	P85036 Std.	P31137211/21
	1) POK307/45 (1) POK307/35 (2)	a) P68332 b) P41158057 c) P31358345 (5)	P68084A .010 P68084B .020 P68084C .030	P85036A .010 P85036B .020 P85036C .030	
	2) PBK307	3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
APPLICATIONS: MF AGRICULTURAL 250 (CE22488)					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet	
	1) P2415344 2) P2418F475 3) PZZ90078	1) PU5LT0038 2) PU5LB0011 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010	1) P31134128 x1 2) P31415261 3) P0860012	1) P0410132 2) P0410241 3) P31164362
	Valve Train Kit a) 45° Angle b) 35° Angle	1) Valve, Intake 2) Valve, Exhaust a) 45° Angle b) 35° Angle	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	a) PVTK302 b) PVTK303	1a) P31431281 x3 b) P31431681 x3 2a) P31431591 x3 b) P31431011 x3	3) P33261723 x6	a) P0780006 x6	5) P0230001 x12
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265	P2641A063 (3) P2641808 (4)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80082 2) P2666108 (Bayonet Fitting)	

(1) Use with Cylinder Head **PZZ80082**.

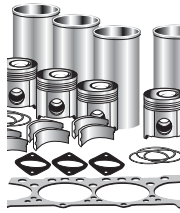
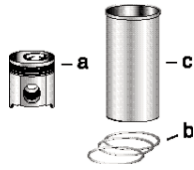
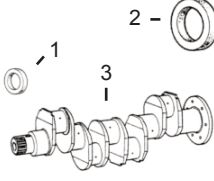
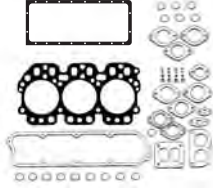
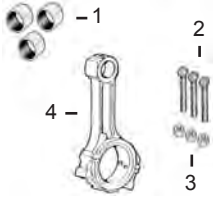
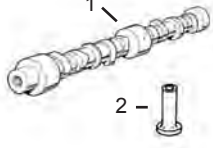
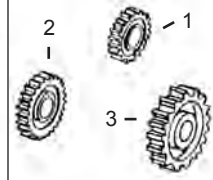
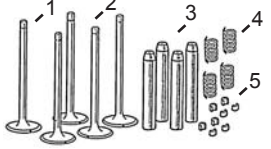
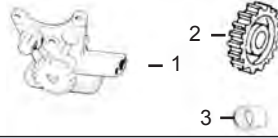
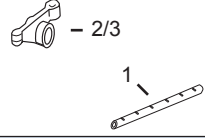
(2) Use with Cylinder Head 68128.

(3) To Engine No: U635848G (2 Hole).

(4) From Engine No: U635849G (4 Hole).

(5) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

(6) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK307NB and nominate the bearings. Only available in Std and 0.10 sizes.

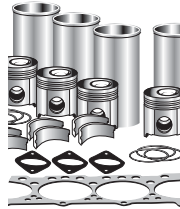
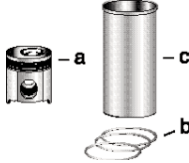
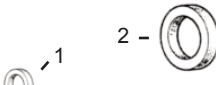
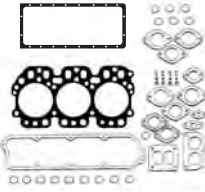
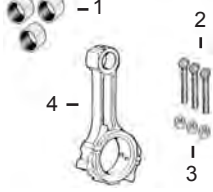
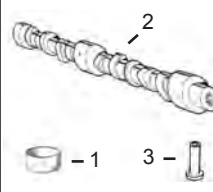
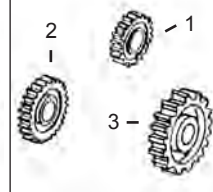
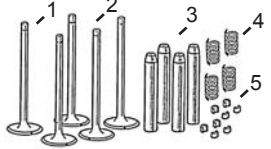
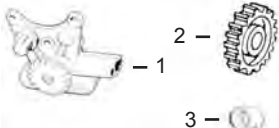
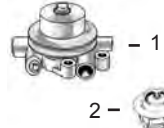
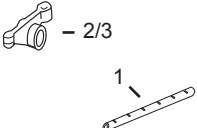
Engine & Equipment Application						
G3.152						
GASOLINE ENGINE		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
3 Cyl, Rope Seal		2) Basic Engine Kit	PCK154 Consists of:	P68084 Std.	P85036 Std.	P31137211/21
Bore: 3.6020 in 91.491 mm		1) POK308	a) P86723	P68084A .010	P85036A .010	
		2) PBK308	b) P41158012	P68084B .020	P85036B .020	
			c) P31358345 (1)	P68084C .030	P85036C .030	
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
APPLICATIONS:						
MF AGRICULTURAL		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Camshaft 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
MF INDUSTRIAL		3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
135 150		1) P2415344 2) P36883106 x2 3) PZZ90116	1) PU5LT0037 2) PU5LB0012 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90011	1) P31415261 2) P0860012	1) P0410132 2) P0410241 3) P31164362
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer
			PVTK304	1) P31431741 x3 2) P31431731 x3	3) P3313E011 x6	4) P0780006 x6
						5) Lock, Valve 5) P0230001 x12
						
		1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH		
		1) P41314078 2) P41115025 3) P0050265	1a) PU5MW0023 b) P41312784 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091		

(1) Semi Finished Liner, P31358323, and Finished Liner in .010", P31358384, are available.

Engine & Equipment Application						
3.152.4						
3 Cyl, Lip Seal						
Bore: 3.6020 in 91.491 mm						
APPLICATIONS: PERKINS General Genset (CM50184) FG WILSON Generator Set (CM33513)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK1524 Consists of:	P68084 Std. (2)	P85036 Std.	P31137211/21
		1) POK310	a) PU5LP0017	P68084A .010	P85036A .010	
		2) PBK310	b) P41158144 c) P31358345 (1)	P68084B .020 P68084C .030	P85036B .020 P85036C .030	
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
			3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet	
		1) P2415344 2) P2418F475	1) PU5LT0038 2) PU5LB0010 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010	1) P31134128 2) P31415264 3) P0860012	1) P0410132 2) P0410241 3) P31164362
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
		PVTK305	1) P31431981 x3 2) P31431011 x3	a) P33261727 x3 b) P33261723 x3	a) P0780007 x6 b) P0780006 x6	5) P0230001 x12
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear		Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265		P2641808	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) N/A 2) P2666108 (Bayonet Fitting)	

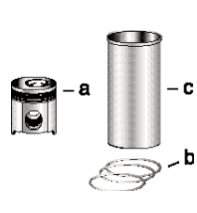
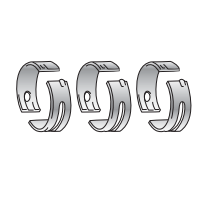
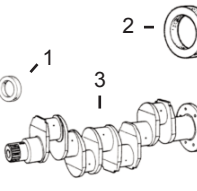
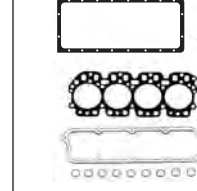
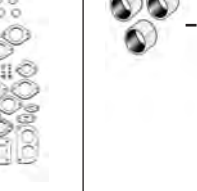
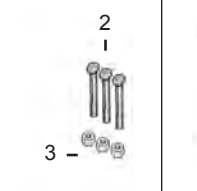
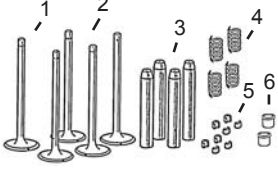
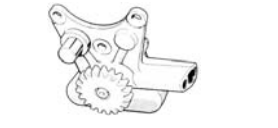
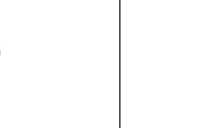
(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

(2) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK310NB and nominate the bearings.

Engine & Equipment Application						
T3.152.4 3 Cyl, Lip Seal Bore: 3.6020 in 91.491 mm APPLICATIONS: MF AGRICULTURAL 253 (CN31219) 264 (CN31214) 355 (CN31187)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK1524 Consists of:	P68084 Std. (2)	P85036 Std.	P31137211/21
		1) POK311	a) PU5LP0017	P68084A .010	P85036A .010	
		2) PBK311	b) P41158144 c) P31358345 (1)	P68084B .020 P68084C .030	P85036B .020 P85036C .030	
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
			3) Head Gasket	4) Con Rod		
		1) P2415344 2) P2418F475	1) PU5LT0080 2) PU5LB0011 3) P3681E006	1) P31134151 x3 2) P0095250 x6 3) P33221327 x6 4) PZZ90010	1) P31134128 2) P31415261 3) P0860012	1) N/A 2) P0410241 3) P31164362
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
		PVTK306	1) P31431741 x3 2) P31431731 x3	a) P33261727 x3 b) P33261723 x3	a) P0780007 x6 b) P0780006 x6	5) P0230001 x12
						
		1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug
		1) P41314078 2) P41115025 3) P0050265	P2641808	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) N/A 2) P2666108 (Bayonet Fitting)

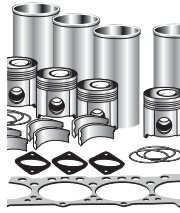
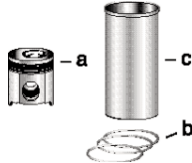
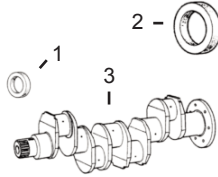
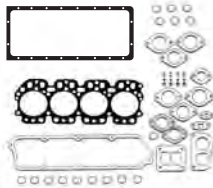
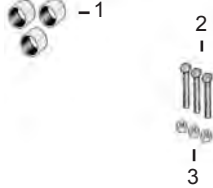
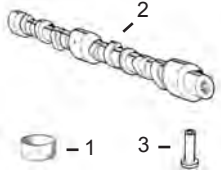
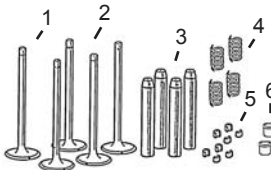
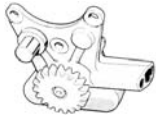
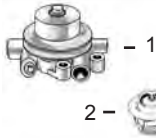
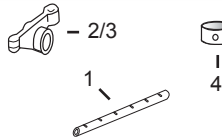
(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

(2) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK311NB and nominate the bearings.

Engine & Equipment Application									
4.108		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set	
INDUSTRIAL		2) Basic Engine Kit		PU5MK0118 Consists of:		P84992 Std.		P85037 Std.	
4 Cyl, Rope Seal		1) POK410		a) P69491		P84992A .010		P85037A .010	
Bore: 3.1250 in 79.375 mm		2) PBK410		b) P41158008 (1) c) P31358117		P84992B .020		P85037B .020	
APPLICATIONS:		4 Per Engine		Set of 3 Pairs		Set of 4 Pairs		Set of 3 Pieces	
GEHL MFG 4600 Skid Loader (ED70048)									
MELROE E146 Loader (ED70075)		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod		1) Bushing, Cam 2) Camshaft 3) Tappet	
OWATTONA MFG 445 Skid Loader (ED70035)		3) Crankshaft Kit		3) Head Gasket		1) P31134145 x4 2) N/A 3) Not Used		1) Not Used 2) N/A 3) P31434152	
SPERRY NEW HOLLAND L555 Skid Loader (ED70077)		1) P2415338 2) P36883107 x2 3) PZZ90160		1) P92425 2) PU5LB0013 3) P36812134					
VERMEER MFG M434-4 Trencher (ED70044)									
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve a) Inner b) Outer	
		PVTK400		1) P0910060 x4 2) P0910061 x4		a) P3313E001 x4 b) P33261723 x4		5) Lock, Valve 6) Seal, Valve	
									
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Rocker Shaft Bush			
P41314089 (2)		P2641A058		1) PU5MW0054 (2) 2) P2485666		1) N/A 2) N/A 3) N/A 4) P0050132			

(1) Set of 4 Rings.

(2) Check Against Build Number.

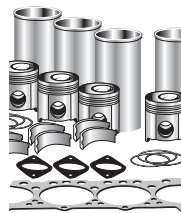
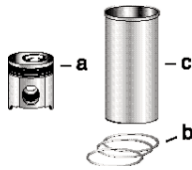
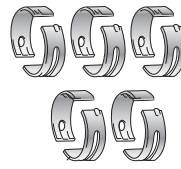
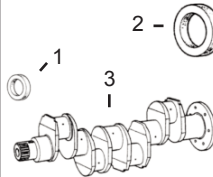
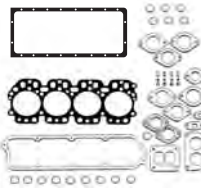
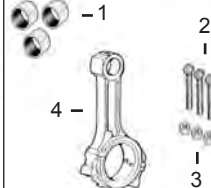
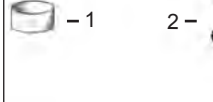
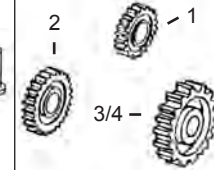
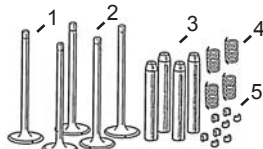
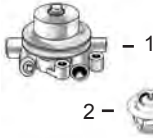
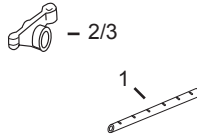
Engine & Equipment Application						
4.108						
MARINE		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
4 Cyl, Rope Seal		2) Basic Engine Kit	PU5MK0061 Consists of:	P84992 Std.	P85037 Std.	P0921120/118
Bore: 3.1250 in 79.375 mm		1) POK411	a) P68383	P84992A .010	P85037A .010	
			b) P41158087 (1)	P84992B .020	P85037B .020	
		2) PBK411	c) P31358117	P84992C .030	P85037C .030	
			4 Per Engine	Set of 3 Pairs	Set of 4 Pairs	Set of 3 Pieces
APPLICATIONS:						
MARINE		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	
Perkins USA (ED22195)		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	
Pleasure Craft (ED33210)				3) Nut, Con Rod	3) Tappet	
Pleasure Craft (ED50033)		3) Crankshaft Kit	3) Head Gasket			
Commercial/Pleasure Craft (ED70058)						
		1) P2415338 2) P36883107 x2 3) PZZ90160	1) P85786 2) PU5LB0013 3) P36812134	1) P31134145 x4 2) N/A 3) Not Used	1) Not Used 2) N/A 3) P31434152	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
		PVTK400	1) P0910060 x4 2) P0910061 x4	a) P3313E001 x4 b) P33261723 x4	a) P0780143 x8 b) P0780144 x8	5) P0230001 x16 6) P33817403 x8
						
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Rocker Shaft Bush	1) Cylinder Head (Bare) 2) Glowplug	
P41314089 (2)		P2641A058	1) PU5MW0054 (2) 2) P2485608	1) N/A 2) N/A 3) N/A 4) P0050132	1) N/A 2) P2666108 (Bayonet Fitting)	

(1) Set of 5 Rings.
(2) Check Against Build Number.

Engine & Equipment Application					
4.203 INDIRECT INJECTION 4 Cyl, Rope Seal Bore: 3.6020 in 91.491 mm To ESN 2820092 <u>APPLICATIONS:</u> MF AGRICULTURAL 65 MF INDUSTRIAL 356 Tractor Shovel					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK152 Consists of:	P68082 Std.	P85035 Std.	P31137211/21
	1) POK430	a) P81512 (1)	P68082A .010	P85035A .010	Set of 2 Pairs
	2) PBK430	b) P41158057 c) P31358308 (2)	P68082B .020 P68082C .030	P85035B .020 P85035C .030	
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P36883106 x2 3) PZZ90121	1) P69036 2) PU5LB0500 3) P36812125	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90011	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK404	1) P31431261 x4 2) P0910002 x4	3) P33261723 x8	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

(1) Flat Head Piston.

(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

Engine & Equipment Application									
4.203 INDIRECT INJECTION 4 Cyl, Rope Seal Bore: 3.6020 in 91.491 mm From ESN 2820093 APPLICATIONS: MF AGRICULTURAL 65 MF INDUSTRIAL 356 Tractor Shovel									
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set			
		2) Basic Engine Kit	PU5MK0033 Consists of:	P68082 Std.	P85035 Std.	P31137211/21			
		1) POK431	a) P81512 (1)	P68082A .010 P68082B .020 P68082C .030	P85035A .010 P85035B .020 P85035C .030				
		2) PBK431	b) P41158057 c) P31358345 (2)						
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs				
									
1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper				
3) Crankshaft Kit		3) Head Gasket	4) Con Rod						
1) P2415344 2) P36883106 x2 3) PZZ90121		1) P69036 2) PU5LB0500 3) P36812125	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90011	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005				
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve			
		PVTK404	1) P31431261 x4 2) P0910002 x4	3) P33261723 x8	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16			
									
Oil Pump		Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug				
P41314164		P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)				

(1) Flat Head Piston.

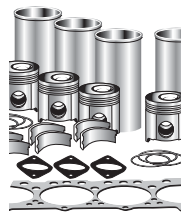
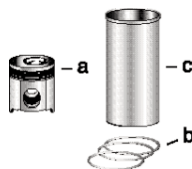
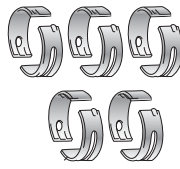
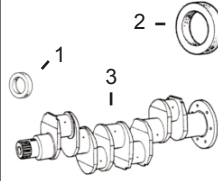
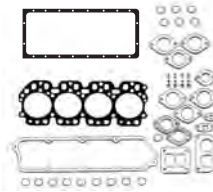
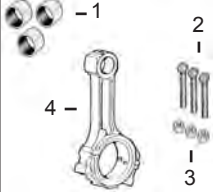
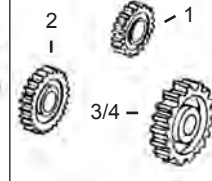
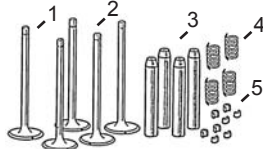
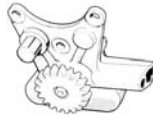
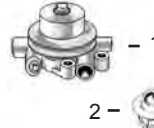
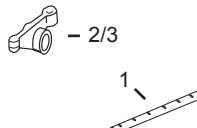
(2) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application					
4.203 INDIRECT INJECTION 4 Cyl, Rope & Lip Seal (Both Rear Seal Types Included in Kit) Bore: 3.6020 in 91.491 mm					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK152 Consists of: a) P81512 (1) b) P41158057 c) P31358308 (2) 4 Per Engine	P68082 Std.	P85035 Std.	P31137211/21
	1) POK438		P68082A .010 P68082B .020 P68082C .030	P85035A .010 P85035B .020 P85035C .030	
APPLICATIONS: CLARK EQUIPMENT C60-70-80 (JD21383) CY30-40-55 (JD21493) CY40-60 (JD22117) HYSTER H40F (JD20074) H40H (JD21708) S60B-H60C (JD20680)					
	1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
	2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Tappet	2) Camshaft Gear
	3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod		3) Idler Gear, Lower
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK404	1) P31431261 x4 2) P0910002 x4	3) P33261723 x8	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
P41314164	P2641336	1) PU5MW0088 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666108 (Bayonet Fitting)	

(1) Flat Head Piston.

(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

(3) Lip Seal Crankshaft from ESN U74103CL.

Engine & Equipment Application					
4.203 INDIRECT INJECTION 4 Cyl, Lip Seal Bore: 3.6020 in 91.491 mm APPLICATIONS: ALLIS CHALMERS 40-50 Forklift (JD22458) (5) 700 Forklift (JD22028) (4) ACP40/50D (JD22533)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0033 Consists of:	P68082 Std.	P85035 Std.	P31137211/21
	1) POK439	a) P81512 (3)	P68082A .010	P85035A .010	
		b) P41158057	P68082B .020	P85035B .020	
	2) PBK439	c) P31358345 (6)	P68082C .030	P85035C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P2418F475 3) PZZ90095	1) P69036 2) PU5LB0015 3) P36812125	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90011	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK404	1) P31431261 x4 2) P0910002 x4	3) P33261723 x8	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
P41314164	P2641A065 (1) P2641336 (2)	1) PU5MW0088 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

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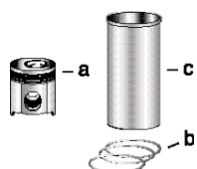
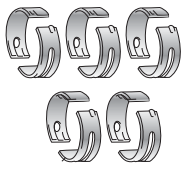
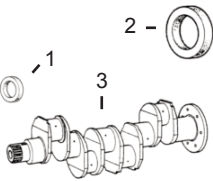
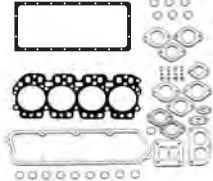
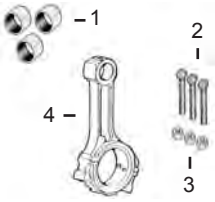
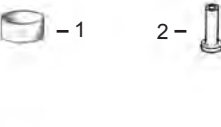
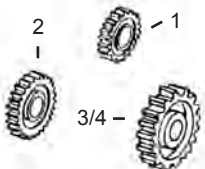
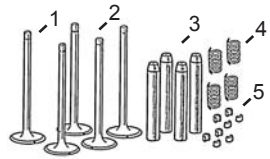
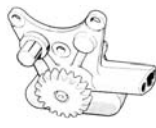
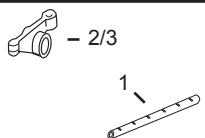
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(3) Flat Head Piston.

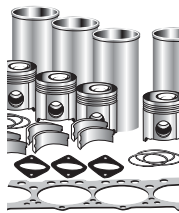
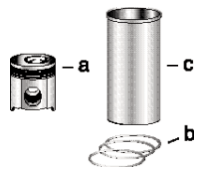
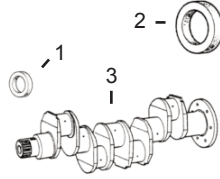
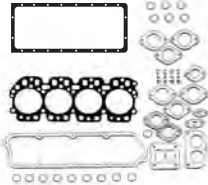
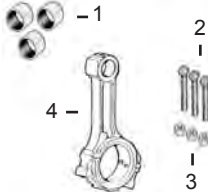
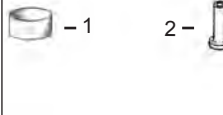
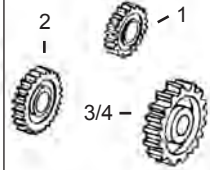
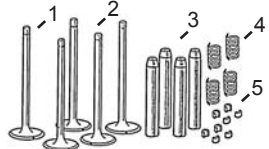
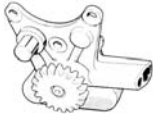
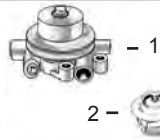
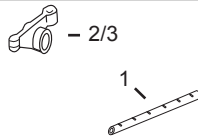
(4) From ESN U74103CL

(5) From ESN U76357L

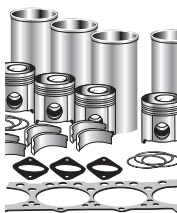
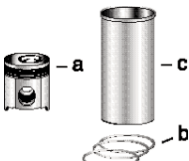
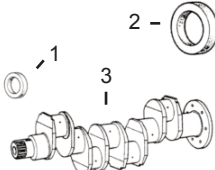
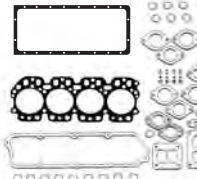
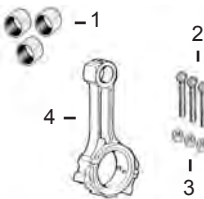
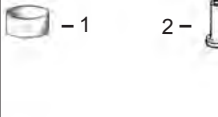
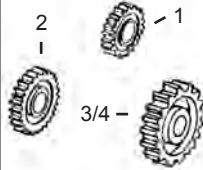
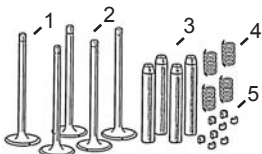
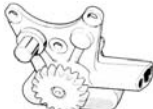
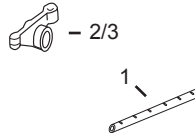
(6) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application						
D4.203						
DIRECT INJECTION						
4 Cyl, Rope Seal						
Bore: 3.6020 in 91.491 mm						
To ESN 2939035						
APPLICATIONS:						
MF AGRICULTURAL 65						
MF INDUSTRIAL 365 Tractor Shovel						
						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK153 Consists of:	P68082 Std.	P85035 Std.	P31137211/21
		1) POK432	a) P68332	P68082A .010	P85035A .010	
		2) PBK432	b) P41158057	P68082B .020	P85035B .020	
			c) P31358308 (1)	P68082C .030	P85035C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
		3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
		1) P2415344 2) P36883106 X2 3) PZZ90121	1) PU5LT0069 2) P82908 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90010	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer
			PVTK405	1) P31431281 x4 2) P31431591 x4	3) P33261723 x8	a) P0780007 x8 b) P0780006 x8
						5) Lock, Valve
						
Oil Pump		Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
P41314164		P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80078 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

(1) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

Engine & Equipment Application						
D4.203 DIRECT INJECTION 4 Cyl, Rope Seal Bore: 3.6020 in 91.491 mm ESN 2939036-29C1084 APPLICATIONS: MF AGRICULTURAL 65 165 255 300 Combine MF INDUSTRIAL 302 304 356 3165 Tractor Shovel	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
	2) Basic Engine Kit	PU5MK0034 Consists of: a) P68332 b) P41158057 c) P31358345 (1) 4 Per Engine	P68082 Std. P68082A .010 P68082B .020 P68082C .030 Set of 5 Pairs	P85035 Std. P85035A .010 P85035B .020 P85035C .030 Set of 4 Pairs	P31137211/21 Set of 2 Pairs	
	1) POK433					
	2) PBK433					
						
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper	
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod			
	1) P2415344 2) P36883106 x2 3) PZZ90121	1) PU5LT0069 2) P82908 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90010	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
		PVTK405	1) P31431281 x4 2) P31431591 x4	3) P33261723 x6	a) P0780007 x6 b) P0780006 x6	5) P0230001 x16
						
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug		
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80078 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)		

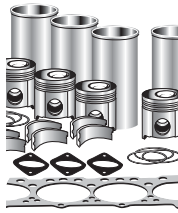
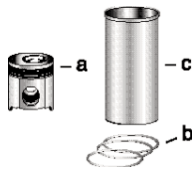
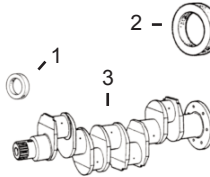
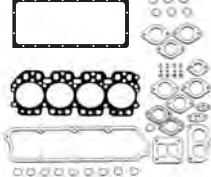
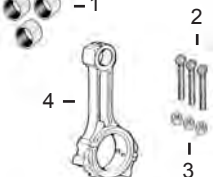
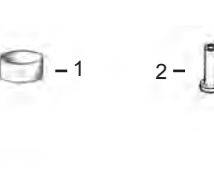
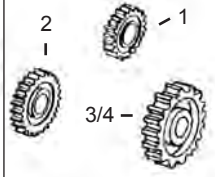
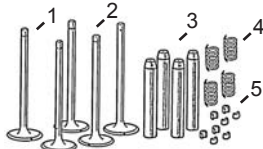
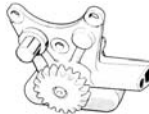
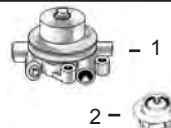
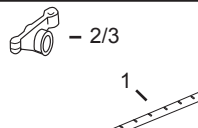
(1) Semi Finished Liner, P31358323, and Finished Liner in .010", P31358384, are available.

Engine & Equipment Application					
D4.203					
DIRECT INJECTION					
4 Cyl, Rope & Lip Seal					
(Both Rear Seal Types Included in Kit)					
Bore: 3.6020 in 91.491 mm					
From ESN 29C1085					
APPLICATIONS:					
MF AGRICULTURAL 65 165 255 300 Combine					
MF INDUSTRIAL 30 40B 50 302 356 3165 Tractor Shovel					
					
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
2) Basic Engine Kit	PU5MK0034 Consists of:	P68082 Std.	P85035 Std.	P31137211/21	
1) POK434	a) P68332	P68082A .010	P85035A .010		
2) PBK434	b) P41158057	P68082B .020	P85035B .020		
	c) P31358345 (3)	P68082C .030	P85035C .030		
	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs	
					
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper	
3) Crankshaft Kit	3) Head Gasket	4) Con Rod			
1) P2415344 2) P36883106 x2 P2418F475 3) PZZ90121 (1) PZZ90111 (2)	1) PU5LT0069 2) P68036 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90010	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	
	PVTK405	1) P31431281 x4 2) P31431591 x4	3) P33261723 x8	a) P0780007 x8 b) P0780006 x8	
					
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80078 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

(1) Rope Seal.

(2) Lip Seal.

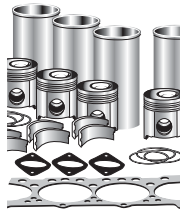
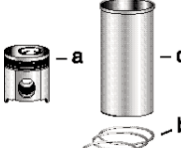
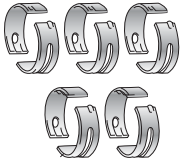
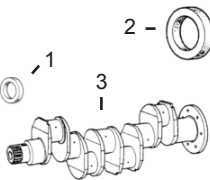
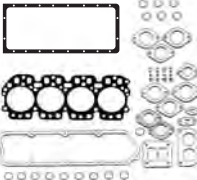
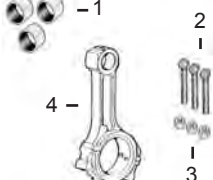
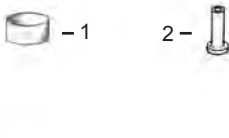
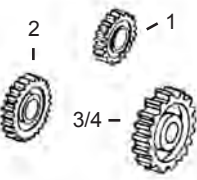
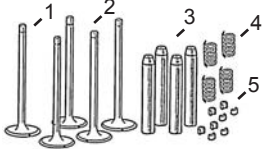
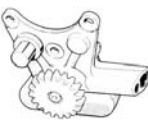
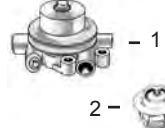
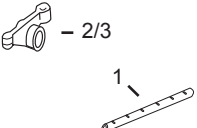
(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application					
D4.203 DIRECT INJECTION 4 Cyl, Lip Seal Bore: 3.6020 in 91.491 mm To ESN U589378L APPLICATIONS: PERKINS USA General Industrial (JE33174) SULLAIR CORP Compressor (JE70033)	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0034 Consists of:	P68082 Std.	P85035 Std.	P31137211/21
	1) POK436	a) P68332	P68082A .010	P85035A .010	
	2) PBK436	b) P41158057	P68082B .020	P85035B .020	
		c) P31358345 (1)	P68082C .030	P85035C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P2418F475 3) PZZ90095	1) PU5LT0084 2) PU5LB0015 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90010	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK420	1) P31431681 x4 2) P31431991 x4	a) P33261727 x4 b) P33261723 x4	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	
P41314164	P2641A054	1) PU5MW0088 2) P2485666		1) PZZ90139 2) P3737A101 3) P3737A091	

(1) Semi Finished Liner, P31358323, and Finished Liner in .010", P31358384, are available.

Engine & Equipment Application					
D4.203 DIRECT INJECTION 4 Cyl, Lip Seal Bore: 3.6020 in 91.491 mm From ESN U589379L <u>APPLICATIONS:</u> PERKINS USA General Industrial (JE33174) SULLAIR CORP Compressor (JE70033)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0117 Consists of: a) P89214 b) P41158065 c) P31358345 (1) 4 Per Engine	P68082 Std.	P85035 Std.	P31137211/21
	1) POK437		P68082A .010	P85035A .010	
	2) PBK437		P68082B .020	P85035B .020	
			P68082C .030	P85035C .030	
			Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P2418F475 3) PZZ90095	1) PU5LT0084 2) PU5LB0015 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90010	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK420	1) P31431681 x4 2) P31431991 x4	a) P33261727 x4 b) P33261723 x4	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	
P41314164	P2641A054	1) PU5MW0088 2) P2485666		1) PZZ90139 2) P3737A101 3) P3737A091	

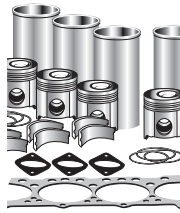
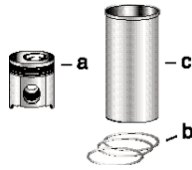
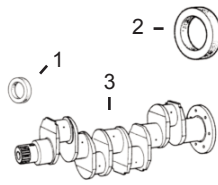
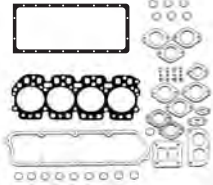
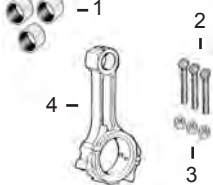
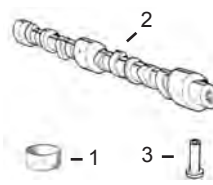
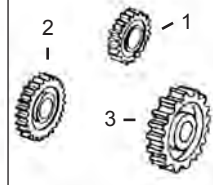
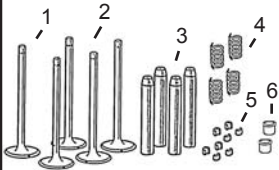
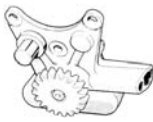
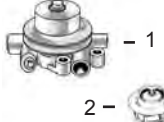
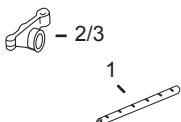
(1) Semi Finished Liner, P31358323, and Finished Liner in .010", P31358384, are available.

Engine & Equipment Application						
4.203.2						
4 Cyl, Lip Seal						
Bore: 3.6020 in 91.491 mm						
APPLICATIONS:						
ALLIS CHALMERS JCP 40-50 Forklift (JG80031)						
CATERPILLAR V40-60C Forklift (JG70020) V/T40C Forklift (JG70092)						
CLARK EQUIPMENT C500 (H) 60-70-80D (JG70099) C500Y-40-560 (JG70100) C500Y-40-560 (JG70143)						
HYSTER H60-80C (JG70040) H60-80E (JG70113)						
SPERRY NEW HOLLAND L779 Skid Steer Loader (JG70043/JG70156)						
						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PU5MK0122 Consists of:	P68082 Std.	P85035 Std.	P31137211/21
		1) POK435	a) P68801	P68082A .010	P85035A .010	
		2) PBK435	b) P41158007	P68082B .020	P85035B .020	
			c) P31358345 (1)	P68082C .030	P85035C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
		3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
		1) P2415344 2) P2418F475 3) PZZ90095	1) PU5LT0084 2) PU5LB0015 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8 4) PZZ90010	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
			PVTK418	1) P31431981 x4 2) P31431991 x4	a) P33261727 x4 b) P33261723 x4	5) P0230001 x16
						
		Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug
		P41314164	P2641A054	1) PU5MW0088 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) N/A 2) P2666108 (Bayonet Fitting)

(1) Semi Finished Liner, P31358323, and Finished Liner in .010", P31358384, are available.

Engine & Equipment Application						
G4.203 4 Cyl Lip Seal Bore: 3.6020 in 91.491 mm APPLICATIONS: EATON CORP Forklift (JF22668)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK154 Consists of:	P68082 Std.	P85035 Std.	P31137211/21
		1) POK442	a) P86723	P68082A .010	P85035A .010	
		2) PBK442	b) P41158012	P68082B .020	P85035B .020	
			c) P31358345 (1)	P68082C .030	P85035C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
		3) Crankshaft Kit	3) Head Gasket			
		1) P2415344 2) P2418F475 3) PZZ90095	1) PU5LT0084 2) PU5LB0015 3) P36812138	1) P31134151 x4 2) P0095250 x8 3) P33221327 x8	1) P31134119 x1 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
		PVTK421	1) P31431741 x4 2) P31431731 x4	3) P3313E011 x8	a) P0780007 x8 b) P0780006 x8	5) P0230001 x16 6) N/A
		Oil Pump	1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	
P41314164			1) N/A 2) P2485666		1) PZZ90139 2) P3737A101 3) P3737A091	

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application					
4.212 4 Cyl, Rope & Lip Seal (Both Rear Seal Types Included in Kit) Bore: 3.8770 in 98.476 mm To ESN UA187117L <u>APPLICATIONS:</u> LANDINI TRACTORS TL120C (LA21912) MF AGRICULTURAL 165 (LA) MF INDUSTRIAL 50 (LA21243) 50B					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0066 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK440	a) P86721	P81558A .010	P85042A .010	
	2) PBK440	b) P41158044 c) P31358394 (5)	P81558B .020 P81558C .030	P85042B .020 P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	3) Head Gasket 4) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Pushrod	
	1) P2418F436 2) P36883108 x2 P2418F475 3) N/A	1) PU5LT0015 2) PU5LB0045 3) P36812349 4) PU5MK0600	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415321 (1) P31415374 (2) 3) P31434163 4) P31434307	1) P31171681 2) P31171353 (1) 3) P41115023
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK406	1) P31431641 x4 2) P31431881 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	Balancer Unit
P41314182 (3)	P2641728	1) P4131A013 2) P2485659	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	P41733082 (4)

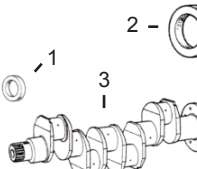
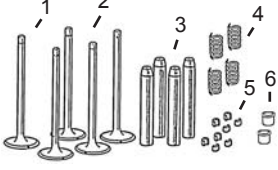
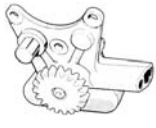
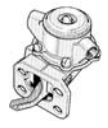
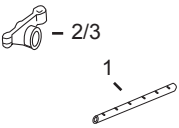
(1) To ESN U106654N.

(2) From ESN U106655N.

(3) Used on Build No: LA21194/LA21243.

(4) Used on Build No: LA21912.

(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize, **P31358398**, are also available.

Engine & Equipment Application					
4.236					
4 Cyl, Rope & Lip Seal					
Bore: 3.8770 in 98.476 mm					
To ESN U106654N					
APPLICATIONS:					
JCB 3CX Backhoe (LD50096) 410 Loader (LD50105) 520 Handler (LD50103)					
LANDINI TRACTORS 6500/6550 (LD22573) 6830/7830 7500/7550 (LD22574)					
MF AGRICULTURAL 175 (LD20022) 255 (LD22694/5) 275 (LD22051/2)					
MF INDUSTRIAL 50C (LD22824) 6000 Forklift (LD22055)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0123 Consists of: a) P68301 b) P41158041 c) P31358394 (3)	P81558 Std. P81558A .010 P81558B .020 P81558C .030	P85042 Std. P85042A .010 P85042B .020 P85042C .030	P31137551/61
	1) POK446	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	2) PBK446				
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Pushrod	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod		
	1) P2418F436 2) P2418F475 P36883108 x2 3) PZZ90093 (4) PZZ90081 (5)	1) PU5LT0015 2) PU5LB0045 3) P3681A027 4) P36812349 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415321 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK406	1) P31431641 x4 2) P31431881 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	Balancer Unit
P41314182 (1)	P2641338 (6) P2641728 (7)	1) P4131A013 2) P2485659 P2485666 (Use on JCB)	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	P41733082 (2)

(1) For Non Agricultural Uses.

(2) For Agricultural Uses.

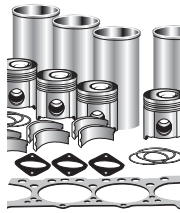
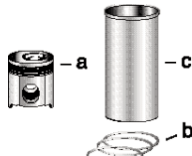
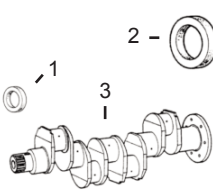
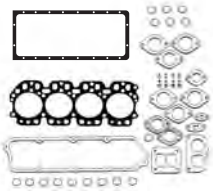
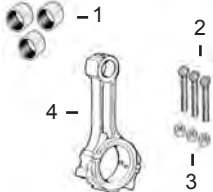
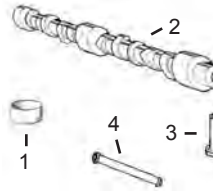
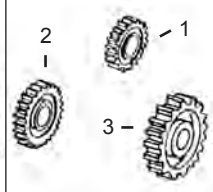
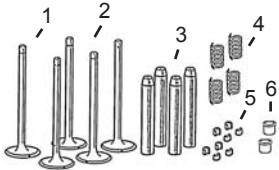
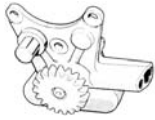
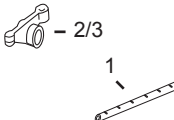
 (3) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize, **P31358398**, are also available.

(4) Rope seal crank used To ESN 136318L.

(5) Lip seal crank used From ESN 136319L.

(6) To Engine No: 236UA57134.

(7) From Engine No: 236UA57135.

Engine & Equipment Application						
4.236						
4 Cyl, Lip Seal						
Bore: 3.8770 in 98.476 mm						
From ESN U106655N						
APPLICATIONS:						
JCB						
3CX Backhoe (LD50096)						
410 Loader (LD50105)						
520 Handler (LD50103)						
LANDINI TRACTORS						
6500/6550 (LD22573)						
6830/7830						
7500/7550 (LD22574)						
MF AGRICULTURAL						
175 (LD20022)						
255 (LD22694/5)						
275 (LD22051/2)						
362 (LD31234)						
MF INDUSTRIAL						
50C (LD22824)						
						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK301 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
		1) POK449	a) P68301	P81558A .010	P85042A .010	
			b) P41158041	P81558B .020	P85042B .020	
		2) PBK449	c) P3135X032 (3)	P81558C .030	P85042C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Pushrod	
		1) P2418F436 2) P2418F475 3) PZZ90081	1) PU5LT0065 2) PU5LB0045 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415374 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
			PVTK406	1) P31431641 x4 2) P31431881 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8
						5) P33173108 x16 6) P33817117 x8
						
		Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug
						Balancer Unit
		P41314182 (1)	P2641728	1) P4131A013 2) P2485659 P2485666 (Use on JCB)	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)
						P41733082 (2)

(1) For Non Agricultural Uses.

(2) For Agricultural Uses.

(3) Flanged, Semi Finished Liner available, **P3135X031**.

Engine & Equipment Application					
4.236 4 Cyl, Rope & Lip Seal (Both Rear Seal Types Included in Kit) Bore: 3.8770 in 98.476 mm To ESN U106654N APPLICATIONS: ALLIS CHALMERS 715B Loader (LD22682) CLARK EQUIPMENT CY60-70-80B (LD21386) Tow Tractor (LD21324) HYSTER C300 Compactor (LD70119) H110-150 (LD70121) S60-100 (LD70115) LINCOLN ELECTRIC 500 Amp Welder (LD50148) SULLAIR CORP 185-250 Compressor (LD70147) TOWMOTOR V100/120/140 (LD22043/4)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0123 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK450	a) P68301	P81558A .010	P85042A .010	
		b) P41158041	P81558B .020	P85042B .020	
	2) PBK450	c) P31358394 (6)	P81558C .030	P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
	2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	2) Camshaft Gear
		3) Valve Cover Gsk	3) Nut, Con Rod	3) Tappet	3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket	4) Con Rod	4) Pushrod	
		5) Oil Pan Set			
		6) Timing Cover Gsk			
	1) P2418F436	1) PU5LT0015	1) P31134123 x4	1) P31134132 x1	1) P31171681
	2) P2418F475	2) PU5LB0046	2) P32762144 x8	2) P31415292	2) P31171353 (1)
	P36883108 x2	3) P3681A027	3) P33221328 x8	P31415321 (5)	3) P41115023 (1)
	3) PZZ90093 (2)	4) P36812349	4) PZZ90009	3) P31434163	
	PZZ90081 (3)	5) PU5MK0600		4) P31434307	
	PZZ90082 (3) (5)	6) P3681P045			
	Valve Train Kit	1) Valve, Intake	3) Guide, Valve	4) Spring, Valve	5) Lock, Valve
		2) Valve, Exhaust	a) Intake	a) Inner	6) Seal, Valve
			b) Exhaust	b) Outer	
	PVTK413	1) P31431315 x4	a) P3343F002 x4	a) P31744131 x8	5) P33173108 x16
		2) P3142A052 x4	b) P3343J002 x4	b) P31745121 x8	6) P33817117 x8
Oil Pump	Lift Pump	1) Water Pump	1) Rocker Shaft	1) Cylinder Head (With Valves)	Balancer Unit
		2) Thermostat	2) Rocker Arm LH	2) Glowplug	
			3) Rocker Arm RH		
P41314182	P2641728	1) P4131A013	1) PZZ90032	1) PZZ80175	P41733082 (4)
		2) P2485666 (7)	2) P41151483	2) P2666103	
			3) P41151484	(Screw Fitting)	
				P2666108	
				(Bayonet Fitting)	

(1) Check with Build List.

(2) Rope Seal Crank Used To ESN U136318L.

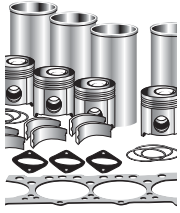
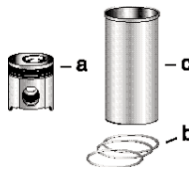
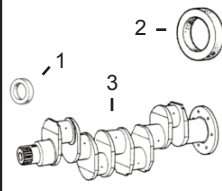
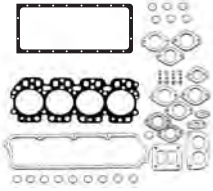
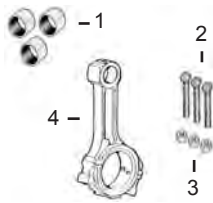
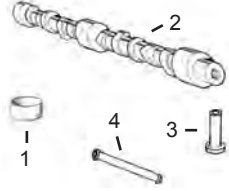
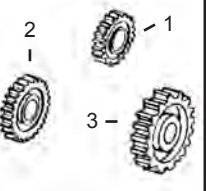
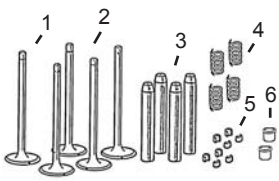
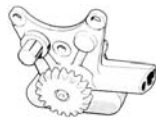
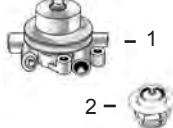
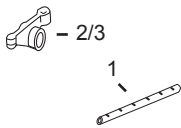
(3) Lip Seal Crank Used From ESN U136319L.

(4) Used on Build No: LD21386.

(5) Used on Build No: LD22682.

(6) Parallel, Semi Finished Liner **P31358324**, Flanged, Semi Finished Liner **P31358393**, and Finished Liner in .010" Oversize **P31358398**, are also available.

(7) Use P2485609 on Build LD21386.

Engine & Equipment Application									
4.236 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm From ESN U106655N APPLICATIONS: ALLIS CHALMERS 715B Loader (LD22682) CATERPILLAR 6-8000lb Forklift (LD22242) CLARK EQUIPMENT CY60-70-80B (LD21386) Tow Tractor (LD21324) HYSTER C300 Compactor (LD70119) H110-150 (LD70121) S60-100 (LD70115) LINCOLN ELECTRIC 500 Amp Welder (LD50148) SULLAIR CORP 185-250 Compressor (LD70147) TOWMOTOR V100/120/140 (LD22043/4)									
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set			
		2) Basic Engine Kit	PCK301 Consists of: a) P68301 b) P41158041 c) P3135X032 (3)	P81558 Std. P81558A .010 P81558B .020 P81558C .030	P85042 Std. P85042A .010 P85042B .020 P85042C .030	P31137551/61			
		1) POK448	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs			
		2) PBK448							
									
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear					
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Pushrod						
1) P2418F436 2) P2418F475 3) PZZ90081 PZZ90082 (1)	1) PU5LT0065 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415381 P31415374 (1) 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 (2) 3) P41115023 (1)					
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve				
	PVTK413	1) P31431315 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8				
									
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	Balancer Unit				
P41314182	P2641728	1) P4131A013 2) P2485666 P2485609 (4)	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	P41733082 (2)				

(1) Used on Build No: LD22682.

(2) Used on Build No: LD21386.

(3) Flanged, Semi Finished Liner available, **P3135X031**.

(4) Use on Build LD21386.

Engine & Equipment Application					
G4.236 GASOLINE ENGINE 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm To ESN U106654N					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK394 Consists of: a) PU5LP0047 b) P41158142 c) P31358394 (5) 4 Per Engine	P81558 Std.	P85042 Std.	P31137551/61
	1) POK457		P81558A .010 P81558B .020 P81558C .030	P85042A .010 P85042B .020 P85042C .030	
	2) PBK457		Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
APPLICATIONS: CATERPILLAR RT (LE70110) T500-1500 (LE70148) V80D (LE70089) V100-140 (LE70094) CLARK EQUIPMENT C500-Y60 (LE80173/LE22376) EATON CORP Forklift (LE80177) JACOBSEN MFG CO H-15 & F10 Turf Tractor (LE70054)					
	1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
	2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	2) Camshaft Gear
	3) Crankshaft Kit	3) Valve Cover Gsk	3) Nut, Con Rod	3) Tappet	3) Idler Gear
		4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk		4) Pushrod	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK412	1) P31431871 x4 2) P31431701 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	Balancer Unit
P41314182	P2641728	1) P4131A013 PU5MW0105 2) P2485666 (6)	1) PZZ90032 2) P41151483 3) P41151484	1) N/A 2) N/A	P41733082 (2)

(1) Do not Use on Build No: LE70089,LE22376, and LE80173.

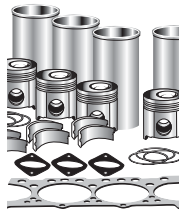
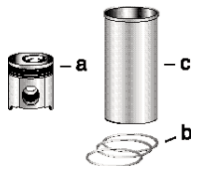
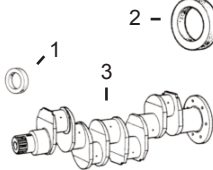
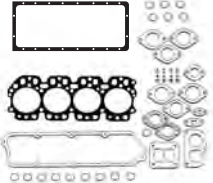
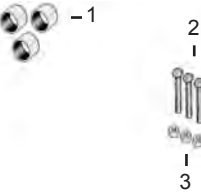
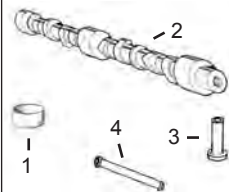
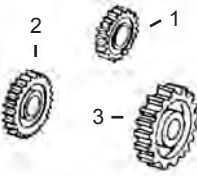
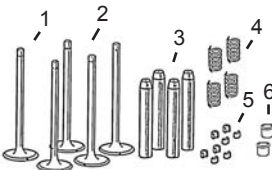
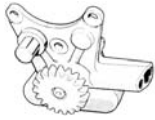
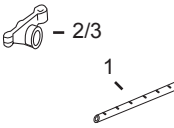
(2) Use on Build No: LE22376,LE80173.

(3) Order with Kit for Build No: LE70089,LE70094.

(4) Use on Build Nos: LE70089/LE80173/LE22376.

(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize, **P31358398**, are also available.

(6) Use P2485613 on Build LE70148 and P2485609 on Build LE80173.

Engine & Equipment Application					
G4.236 GASOLINE ENGINE 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm From ESN U106655N					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK236G Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK447	a) PU5LP0047	P81558A .010	P85042A .010	
	2) PBK447	b) P41158142	P81558B .020	P85042B .020	
		c) P3135X032 (4)	P81558C .030	P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
APPLICATIONS: CATERPILLAR RT (LE70110) T500-1500 (LE70148) V80D (LE70089) V100-140 (LE70094)					
	1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
	2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	2) Camshaft Gear
	3) Crankshaft Kit	3) Valve Cover Gsk	3) Nut, Con Rod	3) Tappet	3) Idler Gear
CLARK EQUIPMENT C500-Y60 (LE80173/LE22376)		4) Head Gasket		4) Pushrod	
		5) Oil Pan Set			
		6) Timing Cover Gsk			
EATON CORP Forklift (LE80177)	1) P2418F436	1) PU5LT0176	1) P31134144 x4	1) P31134132 x1	1) P31171681 (1)
	2) P2418F475	2) PU5LB0046	2) P32762144 x8	2) P31415381	2) P31171353
	3) PZZ90082	3) P3681A027	3) P33221328 x8	3) P31434163	P31171931 (5)
		4) P3681E036		4) P31434307	3) P31171951
JACOBSEN MFG CO H-15 & F10 Turf Tractor (LE70054)		5) PU5MK0600			
		6) P3681P045 (3)			
	Valve Train Kit	1) Valve, Intake	3) Guide, Valve	4) Spring, Valve	5) Lock, Valve
		2) Valve, Exhaust	a) Intake b) Exhaust	a) Inner b) Outer	6) Seal, Valve
	PVTK412	1) P31431871 x4	a) P3343F002 x4	a) P31744131 x8	5) P33173108 x16
		2) P31431701 x4	b) P3343J002 x4	b) P31745121 x8	6) P33817117 x8
	Oil Pump				
		Lift Pump	1) Water Pump	1) Rocker Shaft	1) Cylinder Head
			2) Thermostat	2) Rocker Arm LH	2) Glowplug
				3) Rocker Arm RH	Balancer Unit
P41314182		1) P4131A013	1) PZZ90032	1) N/A	P41733082 (2)
		PU5MW0105 (6)	2) P41151483	2) N/A	
		2) P2485666 (7)	3) P41151484		

(1) Do not Use on Build No: LE70089/LE22376/LE80173.

(2) Use on Build No: LE22376/LE80173.

(3) Order with Kit for Build No: LE70089/LE70094.

(4) Flanged, Semi Finished Liner available, **P3135X031**.

(5) Used on Build Nos: LE70089/LE80173/LE22376.

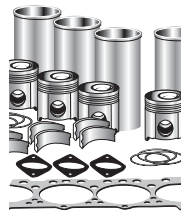
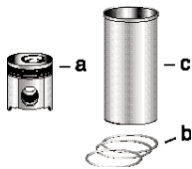
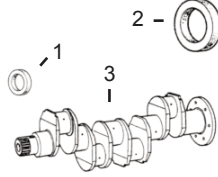
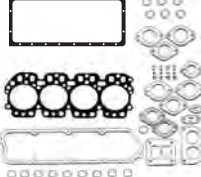
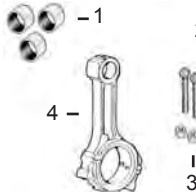
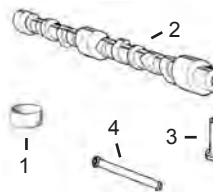
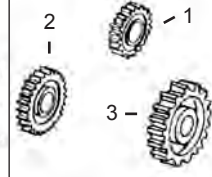
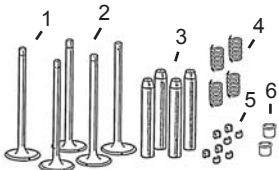
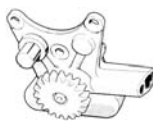
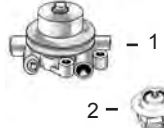
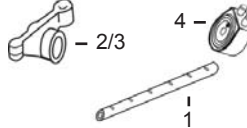
(6) Check with Build List.

(7) Used P248513 on Build LE70148 and P2485609 on Build LE80173.

Engine & Equipment Application						
C4.236 COMPENSATED 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm To ESN U106654N						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK114 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
		1) POK452	a) PU5LP0011	P81558A .010	P85042A .010	
		2) PBK452	b) P41158147	P81558B .020	P85042B .020	
			c) P31358394 (1)	P81558C .030	P85042C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
APPLICATIONS: JCB 3CX Backhoe (LH50133) 200 Loader (LH50205) 200 Loader (LH50226)						
		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	2) Camshaft Gear
		3) Crankshaft Kit	3) Valve Cover Gsk	3) Nut, Con Rod	3) Tappet	3) Idler Gear
			4) Head Gasket	4) Con Rod	4) Push Rod	
			5) Oil Pan Set			
			6) Timing Cover Gsk			
		1) P2418F436	1) PU5LT0176	1) P31134123 x4	1) P31134132 x1	1) P31171681
		2) P2418F475	2) PU5LB0045	2) P32762144 x8	2) P31415374	2) P31171353
		3) PZZ90082	3) P3681A027	3) P33221328 x8	3) P31434163	P31171931 (2)
			4) P3681E016	4) PZZ90009	4) P31434307	3) P41115023
			5) PU5MK0600			
			6) P3681P045			
		Valve Train Kit	1) Valve, Intake	3) Guide, Valve	4) Spring, Valve	5) Lock, Valve
			2) Valve, Exhaust	a) Intake b) Exhaust	a) Inner b) Outer	6) Seal, Valve
		PVTK413	1) P31431315 x4	a) P3343F002 x4	a) P31744131 x8	5) P33173108 x16
			2) P3142A052 x4	b) P3343J002 x4	b) P31745121 x8	6) P33817117 x8
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head (With Valves) 2) Glowplug		
P41314182	P2641728	1) PU5MW0108 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A218	1) PZZ80175 2) P2666108 (Bayonet Fitting)		

(1) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize, **P31358398**, are also available.

(2) Used on Build Nos: LH50133/LH50205.

Engine & Equipment Application						
C4.236 COMPENSATED 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm From ESN U106655N APPLICATIONS: JCB 3CX Backhoe (LH50133) 200 Loader (LH50205) 200 Loader (LH50226)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK416 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
		1) POK455	a) PU5LP0011	P81558A .010	P85042A .010	
		2) PBK455	b) P41158147	P81558B .020	P85042B .020	
			c) P3135X032 (1)	P81558C .030	P85042C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Push Rod	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod		
1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0046 2) PU5LB0045 3) P3681A027 4) P3681E016 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415374 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 (2) 3) P41115023		
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve	
	PVTK413	1) P31431315 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8	
						
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head (With Valves) 2) Glowplug		
P41314182	P2641728	1) PU5MW0108 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A218	1) PZZ80175 2) P2666108 (Bayonet Fitting)		

(1) Flanged, Semi Finished Liner available, P3135X031.

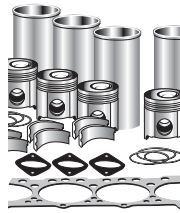
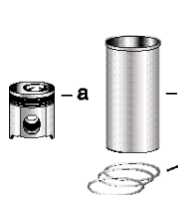
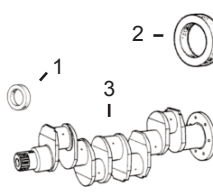
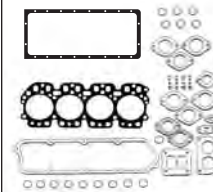
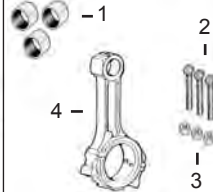
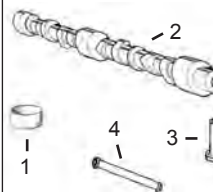
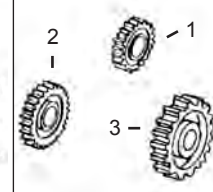
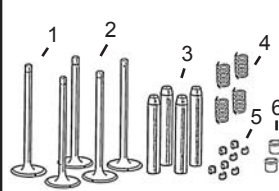
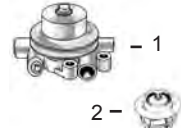
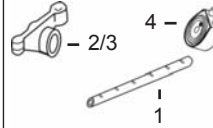
(2) Used on Build Nos: LH50133/LH50205.

Engine & Equipment Application					
T4.236 TURBOCHARGED 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm APPLICATIONS: JCB (From ESN U027774M) 4CX Backhoe (LJ50117) 410M Forklift (LJ50201) 415 Loader (LJ50224) 520S Loadall (LJ50183) MF AGRICULTURAL (From ESN U106655N) 698 (LJ31131) 3065 (LJ31217) 3370 (LJ31153)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK236T Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK451	a) PU5LP0022	P81558A .010	P85042A .010	
	2) PBK451	b) P41158145 c) P3135X032 (2)	P81558B .020 P81558C .030	P85042B .020 P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	2) Camshaft Gear 3) Idler Gear
	1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0046 2) PU5LB0045 3) P3681A027 4) P3681E016 5) PU5MK0600 6) P3681P045	1) P31134131 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90013	1) P31134132 x1 2) N/A 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 (3) 3) N/A
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK414	1) P3142H002 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Glowplug	Balancer Unit
P4132F012 P4132F041 (1)	P2641728	1) PU5MW0108 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A218	1) P2666108 (Bayonet Fitting)	P4111K051 (1)

(1) For Use on Agricultural Applications.

(2) Flanged, Semi Finished Liner available, **P3135X031**.

(3) Used on Build No: LJ50201.

Engine & Equipment Application					
T4.236 TURBOCHARGED 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm To ESN U106654N <u>APPLICATIONS:</u> PERKINS USA General Industrial (LJ70128) Genset (LJ70130/LJ70151) SULLAIR CORP Genset (LJ70155)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK022 Consists of: a) PU5LP0022 b) P41158145 c) P31358394 (3) 4 Per Engine	P81558 Std. P81558A .010 P81558B .020 P81558C .030 Set of 5 Pairs	P85042 Std. P85042A .010 P85042B .020 P85042C .030 Set of 4 Pairs	P31137551/61 Set of 2 Pairs
	1) POK458				
	2) PBK458				
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Push Rod	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod		
	1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0176 2) PU5LB0046 3) P3681A027 4) P36812349 5) PU5MK0600 6) P3681P045	1) P31134131 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90013	1) P31134132 x1 2) N/A 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 (1) 3) N/A
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
		PVTK414	1) P3142H002 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Glowplug	Balancer Unit
P4132F012 P4132F041 (1)	P2641728	1) PU5MW0108 PU5MW0106 (2) 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A219	1) P2666108 (Bayonet Fitting)	P4111K051 (1)

(1) Use on Build No: LJ70128.

(2) Use on Build No: LJ70155.

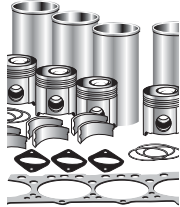
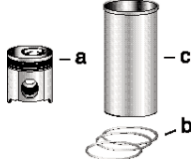
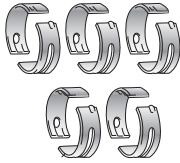
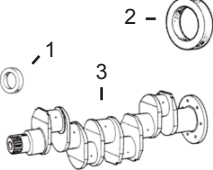
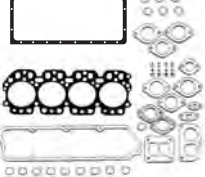
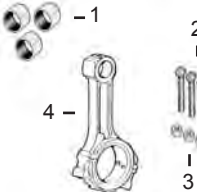
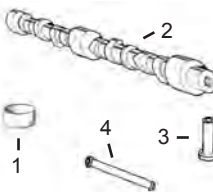
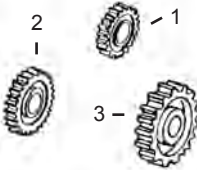
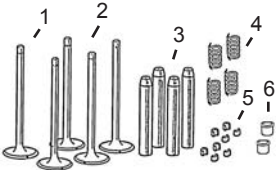
(3) Parallel, Semi Finished Liner, P31358324, Flanged, Semi Finished Liner, P31358393, and Finished Liner in .010" Oversize, P31358398, are also available.

Engine & Equipment Application					
T4.236 TURBOCHARGED 4 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm From ESN U106655N					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK236T Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK456	a) PU5LP0022	P81558A .010	P85042A .010	
	2) PBK456	b) P41158145	P81558B .020	P85042B .020	
		c) P3135X032 (3)	P81558C .030	P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
APPLICATIONS: PERKINS USA General Industrial (LJ70128) Genset (LJ70130/LJ70151)					
	1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	1) Crankshaft Gear
	2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	2) Camshaft Gear
	3) Crankshaft Kit	3) Valve Cover Gsk	3) Nut, Con Rod	3) Tappet	3) Idle Gear
SULLAIR CORP Genset (LJ70155)		4) Head Gasket	4) Con Rod	4) Push Rod	
		5) Oil Pan Set			
		6) Timing Cover Gsk			
	Valve Train Kit	1) Valve, Intake	3) Guide, Valve	4) Spring, Valve	5) Lock, Valve
		2) Valve, Exhaust	a) Intake b) Exhaust	a) Inner b) Outer	6) Seal, Valve
	PVTK414	1) P3142H002 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
Oil Pump	Lift Pump	1) Water Pump	1) Rocker Shaft	1) Glowplug	Balancer Unit
		2) Thermostat	2) Rocker Arm LH		
			3) Rocker Arm RH		
			4) Oil Cooler		
P4132F012 P4132F041 (1)	P2641728	1) PU5MW0108 PU5MW0106 (2) 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A219	1) P2666108 (Bayonet Fitting)	P4111K051 (1)

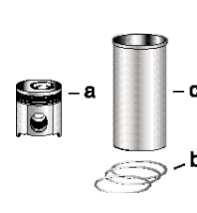
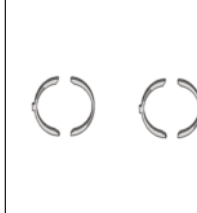
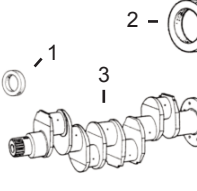
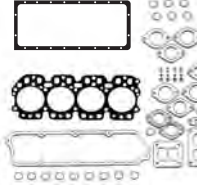
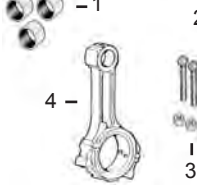
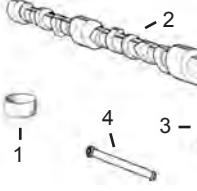
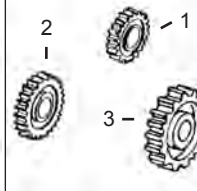
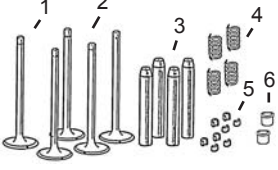
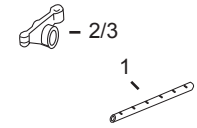
(1) Use on Build No: LJ70128.

(2) Use on Build No: LJ70155.

(3) Flanged, Semi Finished Liner available, **P3135X031**.

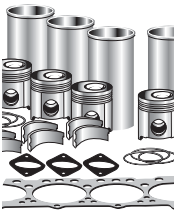
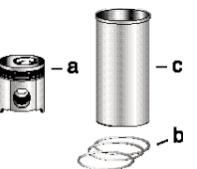
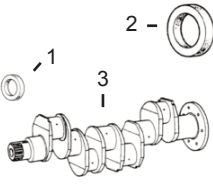
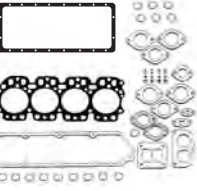
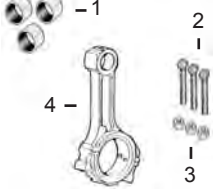
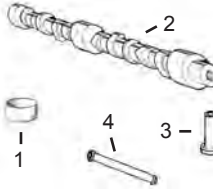
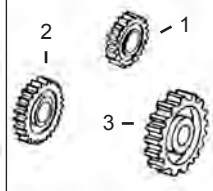
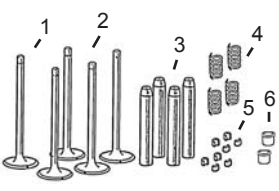
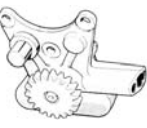
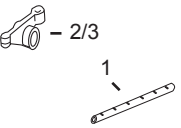
Engine & Equipment Application					
4.248 4 Cyl Both rear seal types in kit Bore: 3.9785 in 101.054 mm To ESN UA123423L APPLICATIONS: MF AGRICULTURAL 275 Tractor					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0067 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK460	a) P89207	P81558A .010	P85042A .010	
	2) PBK460	b) P4181A009 c) P31358352 (1)	P81558B .020 P81558C .030	P85042B .020 P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Push Rod	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod		
	1) P2418F436 2) P36883108 x2 (2) P2418F475 (3) 3) PZZ90093 (2) PZZ90081 (3)	1) PU5LT0015 2) PU5LB0045 3) P3681A027 4) P36812349 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415321 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK406	1) P31431641 x4 2) P31431881 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
					
Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	Balancer Unit	
P2641728	1) P4131A013 2) P2485659	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	P41733082	

(1) Parallel, Semi Finished Liner **P31358343** (4.065"OD), and Flanged, Semi Finished Liner **P31358346** are also available.
 (2) Rope Seal.
 (3) Lip Seal.

Engine & Equipment Application						
4.248						
4 Cyl, Lip Seal		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
Bore: 3.9785 in 101.054 mm		2) Basic Engine Kit	PCK2481 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
From ESN UA123424L		1) POK461	a) PU5LP0009	P81558A .010	P85042A .010	
		2) PBK461	b) P41158022	P81558B .020	P85042B .020	
			c) P3135X034 (5)	P81558C .030	P85042C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
APPLICATIONS:						
LANDINI TRACTORS R8500 (LF22575)		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
MF AGRICULTURAL 194 (LF22762) 275 (LF22312/3) 285 (LF22471) 290 (LF22790) 590 (LF22486)		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
MF INDUSTRIAL 50H		1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0065 2) PU5LB0045 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415321 (1) P31415374 (2) 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
		PVTK406	1) P31431641 x4 2) P31431881 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
						
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	Balancer Unit
P4132F041 (6)		P2641728	1) P4131A013 2) P2485659	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666108 (Bayonet Fitting)	P41733082 (3) P4111K051 (4)

(1) To ESN U108196N.
(2) From ESN U108197N.
(3) To ESN U076241N.
(4) From ESN U076242N.

(5) Flanged, Semi Finished Liner available, **P3135X033**.
(6) Used with Balancer Unit **P4111K051**.

Engine & Equipment Application						
4.248						
4 Cyl, Rope & Lip Seal						
Bore: 3.9785 in 101.054 mm						
APPLICATIONS: ALLIS CHALMERS 840 Loader (LF21617) D175 Tractor (LF21274)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK2481 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
		1) POK463	a) PU5LP0009 b) P41158022 c) P3135X034 (6) 4 Per Engine	P81558A .010 P81558B .020 P81558C .030	P85042A .010 P85042B .020 P85042C .030	
		2) PBK463		Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
		1) P2418F436 2) P2418F475 P36883108 x2 3) PZZ90093 (4) PZZ90082 (5)	1) PU5LT0065 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415321 (1) (3) P31415371 (2) (3) 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
			PVTK413	1) P31431315 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8
						5) P33173108 x16 6) P33817117 x8
						
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
P41314182		P2641728	1) P4131A013 2) P2485666	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) Not Used	

(1) To ESN U108196N.
(2) From ESN U108197N.
(3) Check with Build List.
(4) To ESN U17856L.

(5) From ESN U17857L.
(6) Flanged, Semi Finished Liner available, **P3135X033**.

Engine & Equipment Application						
4.248.2						
4 Cyl, Lip Seal		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
Bore: 3.9785 in 101.054 mm		2) Basic Engine Kit	PCK2482 Consists of: a) P68814 b) P41158022 c) P3135X034 (7)	P81558 Std. P81558A .010 P81558B .020 P81558C .030	P85042 Std. P85042A .010 P85042B .020 P85042C .030	P31137551/61
1) POK462						
2) PBK462						
APPLICATIONS:			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
CATERPILLAR T80D (LG70149) T50-150D (LG70109) V60C (LG70069/LG70091) V80D (LG70067/LG70090)						
CLARK EQUIPMENT C500 (H) 60-80 (LG70159) C500Y-100-150 (LG70104) CTD20-50 (LG70097/LG70106)		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
HYSTER H60-80E (LG70063) H60-110E (LG70127)		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P2418F475 3) PZZ90082			1) PU5LT0176 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415292 (2) P31415381 (3) 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 (6) 3) P31171951
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
PVTK413			1) P31431315 x4 2) P3142A052 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16 6) P33817117 x8
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	Balancer Unit
P41314182 P4132F041 (5)		P2641728	1) P4131A013 (1) PU5MW0105 (1) 2) P2485666 (8)	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	P41733082 (4) P4111K051 (5)

(1) Check with Build List.

(2) To ESN U108196N.

(3) From ESN U108197N.

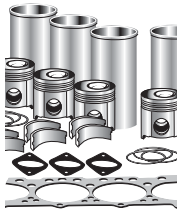
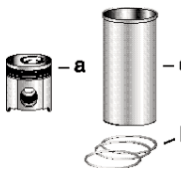
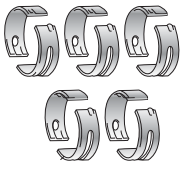
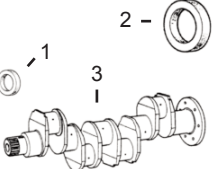
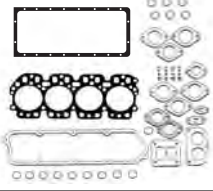
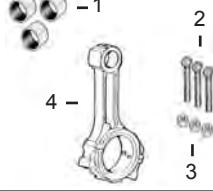
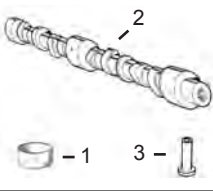
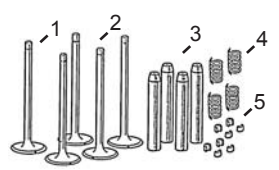
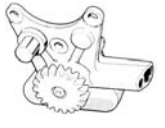
(4) Use on Build No: LG70104.

(5) Use on Build No: LG70159.

(6) Use on Build Nos: LG70067/LG70090.

(7) Flanged, Semi Finished Liner available, **P3135X033**.

(8) Build LG70149 use P2485613, and Build LG70159, LG70104 use P2485609.

Engine & Equipment Application						
4.318 4 Cyl, Lip Seal Bore: 4.5005 in 114.313 mm APPLICATIONS: MF AGRICULTURAL 285 (NC22089) 540 Combine (NC22699) 1085 (NC21725)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK318 Consists of:	P68085 Std.	P85041 Std.	P31137551/61
		1) POK490	a) P86716	P68085A .010	P85041A .010	
		2) PBK490	b) P41158118 c) P31358534	P68085B .020 P68085C .030	P85041B .020 P85041C .030	
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	
		3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet	
		1) P2415346 2) P2418F475 3) N/A	1) P69048 2) P68211 3) P36812348	1) P0050128 x4 2) N/A 3) Not Used 4) N/A	1) Not Used 2) N/A 3) N/A	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
		PVTK408	1) P31431154 x4 2) P31431671 x4	3) P33432532 x8	a) P31744131 x8 b) P31745121 x8	5) P33173108 x16
						
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat		
P41314113		P2641336		1) PU5MW0009 (1) PU5MW0014 (2) 2) P2485666		

(1) Used on Build No: NC22089/NC22699.
(2) Used on Build No: NC21725.

Engine & Equipment Application					
6.354 6 Cyl, Rope & Lip Seal (Both Rear Seal Types Included in Kit) Bore: 3.8770 in 98.476 mm					
APPLICATIONS: CLARK EQUIPMENT C500-CY-160-300 (TC22266) HYSTER H150-250 (TC20102) MF AGRICULTURAL 1100 (4) MICHIGAN 45B Shovel (TC22460)	1) Engine O/H Kit 2) Basic Engine Kit	Piston-Liner Kit PU5MK0127 Consists of: a) P86740 b) P41158041 c) P31358394 (5) 6 Per Engine	Main Bearing Set P85010 Std. P85010A .010 P85010B .020 P85010C .030 Set of 7 Pairs	Con Rod Bearing Set P85043 Std. P85043A .010 P85043B .020 P85043C .030 Set of 6 Pairs	Thrust Washer Set PW2105L (1) P31137551/61 (Both Types in Kit) Set of 2 Pairs
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	1) P2418F436 2) P36883108 x2 P2418F475 3) PZZ90090 (2)	1) PU5LT0021 2) PU5LB0056 3) P36812548	1) P31134123 x6 2) P32762144 x12 3) P33221328 x12 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171353	1) P31173422 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK610	1) P31431315 x6 2) P3142A052 x6	a) P3343F002 x6 b) P3343J002 x6	a) P31744131 x12 b) P31745121 x12	5) P33173108 x24 6) P33817117 x12
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
P41314067 (3) P41314131 (3)	P2641A064	1) PU5MW0112 (3) 2) P2485609	1) PZZ90046 2) P41151483 3) P41151484	1) N/A 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

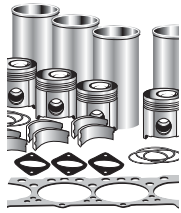
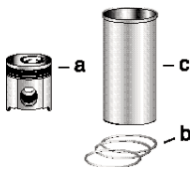
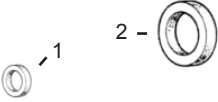
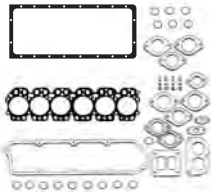
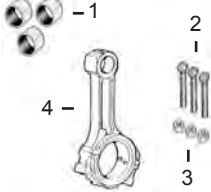
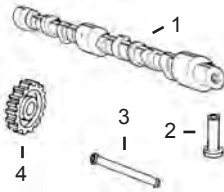
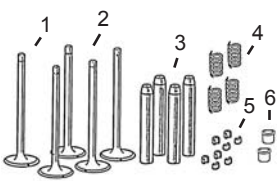
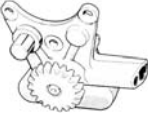
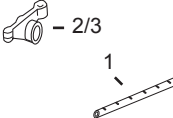
(1) For ESN's Prior to 8504189 use Thrust Washer Set **PW2105L**.

(2) From ESN U327089L.

(3) Check with Build List.

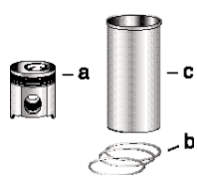
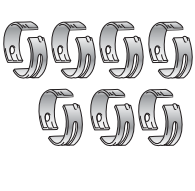
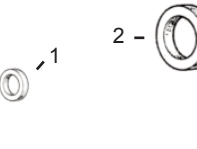
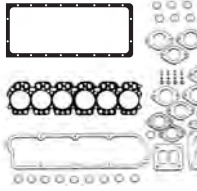
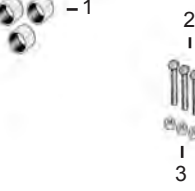
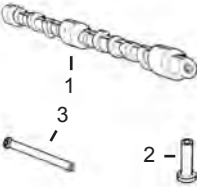
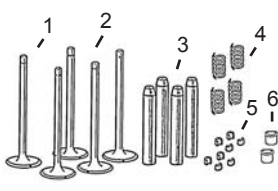
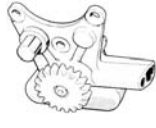
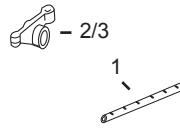
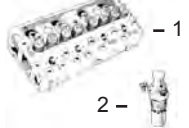
(4) To ESN 354UA10361.

(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application					
6.354 6 Cyl, Rope Seal Bore: 3.8770 in 98.476 mm APPLICATIONS: MF AGRICULTURAL 1100 (1)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0127 Consists of: a) P86740 b) P41158041 c) P31358394 (2)	P85010 Std. P85010A .010 P85010B .020 P85010C .030	P85043 Std. P85043A .010 P85043B .020 P85043C .030	P31137551/61
	1) POK652	6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
	2) PBK652				
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	1) P2418F436 2) P36883108 x2	1) PU5LT0026 2) PU5LB0056 3) P36812547	1) P31134123 x6 2) P32762144 x12 3) P33221328 x12 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171353	1) P31173422 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432
		Valve Train Kit PVTK610	1) Valve, Intake 2) Valve, Exhaust 3) Guide, Valve a) Intake b) Exhaust a) P3343F002 x6 b) P3343J002 x6	4) Spring, Valve a) Inner b) Outer a) P31744131 x12 b) P31745121 x12	5) Lock, Valve 6) Seal, Valve 5) P33173108 x24 6) P33817117 x12
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
P41314067	P2641A064	1) PU5MW0016 2) P2485666 P2485613	1) PZZ90046 2) P41151483 3) P41151484	1) N/A 2) P2666103 (Screw Fitting) P2666108 (Bayonet Fitting)	

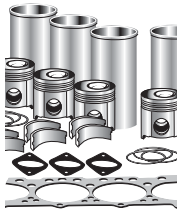
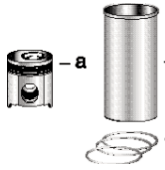
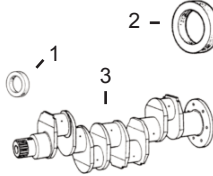
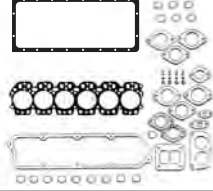
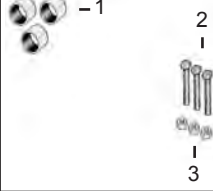
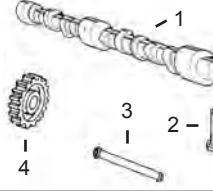
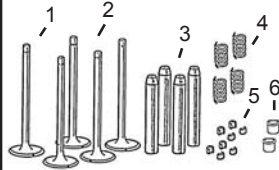
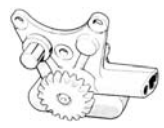
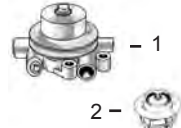
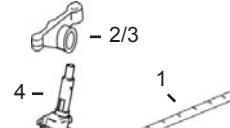
(1) From ESN 354UA10362.

(2) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application					
T6.354					
TURBOCHARGED					
6 Cyl, Rope Seal		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
Bore: 3.8770 in 98.476 mm		2) Basic Engine Kit	PCK354 Consists of:	PU5MB0011 Std.	PU5ME0007 Std.
		1) POK660	a) P86726	PU5MB0011A .010	PU5ME0007A .010
		2) PBK660	b) P41158031	PU5MB0011B .020	PU5ME0007B .020
			c) P31358394 (2)	PU5MB0011C .030	PU5ME0007C .030
			6 Per Engine	Set of 7 Pairs	Set of 6 Pairs
APPLICATIONS:					
MF AGRICULTURAL 1130 (1)		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Aux. Drive Shaft
		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Gear & Shaft
			3) Head Gasket	3) Nut, Con Rod	3) Gear
					4) Front Bush
					5) Rear Bush
					6) Seal
		1) P2418F436	1) PU5LT0021	1) P31134134 X6	1) N/A
		2) P36883108 x2	2) PU5LB0056	2) P32762144 X12	2) P41115367
			3) P36812548	3) P33221328 X12	3) P31171731
					4) P31134129
					5) P2511447
					6) P2418F432
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
		PVTK610	1) P31431315 x6 2) P3142A052 x6	a) P3343F002 x6 b) P3343J002 x6	5) Lock, Valve 6) Seal, Valve
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head (With Valves) 2) Glowplug	
P41314067	P2641A064	1) PU5MW0016 (1) 2) P2485666 P2485613	1) PZZ90046 2) P41151483 3) P41151484	1) N/A 2) P2666108 (Bayonet Fitting)	

(1) To ESN 354UA3355T.

(2) Parallel, Semi Finished Liner, P31358324, Flanged, Semi Finished Liner, P31358393, and Finished Liner in .010" Oversize, P31358398, are also available.

Engine & Equipment Application					
T6.354.1/ TC6.354.1 TURBOCHARGED 6 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK354 Consists of: a) P86726 b) P41158031 c) P31358394 (5)	PU5MB0011 Std. PU5MB0011A .010 PU5MB0011B .020 PU5MB0011C .030	PU5ME0007 Std. PU5ME0007A .010 PU5ME0007B .020 PU5ME0007C .030	P31137551/61
	1) POK661 2) PBK661	6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
APPLICATIONS: MF AGRICULTURAL 750 760 (1) (TH21794) 1105 (TT21724) 1130 (4) 1135 (TH22431/TH21722)					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	3) Crankshaft Kit	3) Head Gasket			
	1) P2418F436 2) P2418F475 3) PZZ90091	1) PU5LT0026 2) PU5LB0056 3) P36812547	1) P31134134 x6 2) P32762144 x12 3) P33221328 x12	1) N/A 2) P31434163 3) P31434307 4) P31171931	1) P31173422 (3) 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432 (7)
NEW IDEA Combine (TH22481)		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
		PVTK610	1) P31431315 x6 2) P3142A052 x6	a) P3343F002 x6 b) P3343J002 x6	5) Lock, Valve 6) Seal, Valve
WHITE FARM 2-105 (TH22282)					
			1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head 2) Glowplug
P41314067	P2641A064	1) PU5MW0016 (2) PU5MW0123 (3) 2) P2485666 (6) P2485613	1) PZZ90046 2) P41151483 3) P41151484 4) P41371115	1) N/A 2) P2666108 (Bayonet Fitting)	

(1) From ESN UA48970L.

(2) Do Not Use on Build No: TH21794.

(3) Use on Build No: TH22481.

(4) From ESN 354UA3356T.

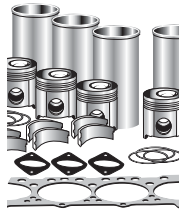
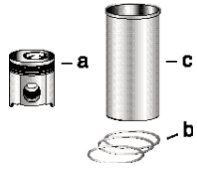
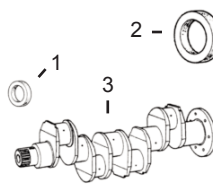
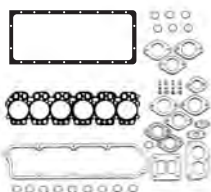
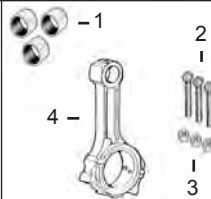
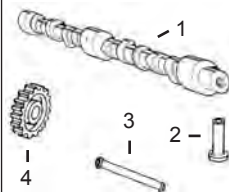
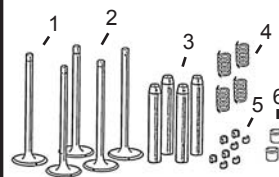
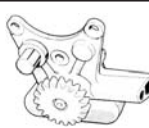
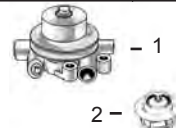
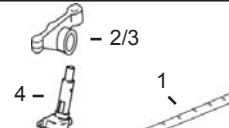
(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

(6) Check with Build List.

(7) Do not use on Build numbers TH22431 and TH22282.

Engine & Equipment Application					
6.354.1					
6 Cyl, Lip Seal					
Bore: 3.8770 in 98.476 mm					
APPLICATIONS: WHITE FARM 2-85 Tractor (TG22453)					
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
		2) Basic Engine Kit	PU5MK0125 Consists of:	PU5MB0011 Std.	PU5ME0003 Std.
		1) POK667	a) P86745	PU5MB0011A .010	PU5ME0003A .010
		2) PBK667	b) P41158032 c) P31358394 (1)	PU5MB0011B .020 PU5MB0011C .030	PU5ME0003B .020 PU5ME0003C .030
			6 Per Engine	Set of 7 Pairs	Set of 6 Pairs
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear
		3) Crankshaft Kit	3) Head Gasket	4) Con Rod	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
		1) P2418F436 2) P2418F475 3) PZZ90092	1) PU5LT0026 2) PU5LB0056 3) P36812547	1) P31134123 x6 2) P32762144 x12 3) P33221328 x12 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171931
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	4) Spring, Valve a) Inner b) Outer
			PVTK616	1) P31431315 x6 2) P31431931 x6	5) Lock, Valve 6) Seal, Valve
				3) Guide, Valve a) Intake b) Exhaust	5) P33173108 x24 6) P33817117 x12
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head 2) Glowplug
P41314067		P2641A064	1) PU5MW0016 2) P2485666 P2485613	1) PZZ90046 2) P41151483 3) P41151484 4) P41371115	1) N/A 2) P2666108 (Bayonet Fitting)

(1) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application					
6.354.2					
6 Cyl, Rope & Lip Seal					
Kits include both rear seals					
Bore: 3.8770 in 98.476 mm					
APPLICATIONS:					
WHITE COCKSHUTT 7600 Combine (TJ22189)					
					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PU5MK0125 Consists of:	P85010 Std.	P85043 Std.	P31137551/61
	1) POK668	a) P86745	P85010A .010	P85043A .010	
	2) PBK668	b) P41158032	P85010B .020	P85043B .020	
		c) P31358394 (2)	P85010C .030	P85043C .030	
		6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2418F436 2) P36883108 x2 P2418F475 3) PZZ90090 (1)	1) PU5LT0028 2) PU5LB0056 3) P36812545	1) P31134123 x6 2) P32762144 x12 3) P33221328 x12 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171353	1) P31173422 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
		PVTK610	1) P31431315 x6 2) P3142A052 x6	a) P3343F002 x6 b) P3343J002 x6	a) P31744131 x12 b) P31745121 x12
					
	Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head 2) Glowplug
P41314067	P2641A064	1) PU5MW0123 2) P2485604 x2	1) PZZ90046 2) P41151483 3) P41151484 4) P41371115 P41371158	1) N/A 2) Not Used	

(1) From ESN U12129L.

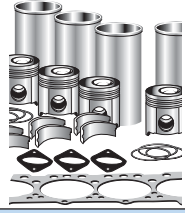
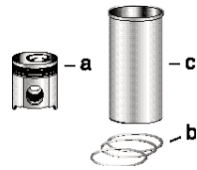
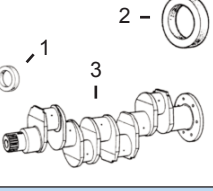
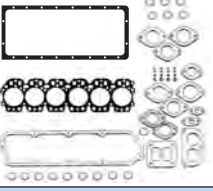
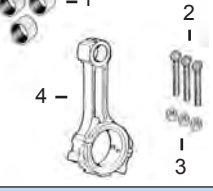
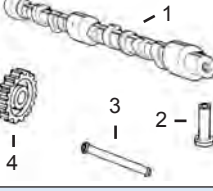
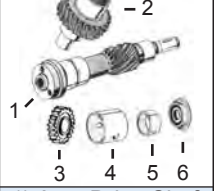
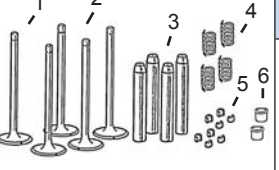
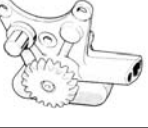
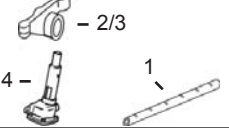
(2) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application					
6.354.4					
6 Cyl, Lip Seal					
Bore: 3.8770 in 98.476 mm					
1) Engine O/H Kit		2) Basic Engine Kit		1) POK671	
2) PBK671		PU5MK0127 Consists of: a) P86740 b) P41158041 c) P31358394 (3)		6 Per Engine	
1) POK671		PU5MB0030 Std. PU5MB0030A .010 PU5MB0030B .020 PU5MB0030C .030		Set of 7 Pairs	
2) PBK671		P85043 Std. P85043A .010 P85043B .020 P85043C .030		Set of 6 Pairs	
1) POK671		P31137551/61		Set of 2 Pairs	
2) PBK671					
APPLICATIONS:					
CLARK EQUIPMENT 16000-30000 (TW70007) C500-160-300D (TW70142)					
HYSTER H150-275-300-350H (TW70005)					
MF AGRICULTURAL 1014 (TW31087) TX550 Combine (TW31015)					
PERKINS USA General Industrial (TW33425)					
WHITE FARM 8600 Combine (TW70114)					
1) Front Seal		1) Top Gasket Set		1) Bush, Con Rod	
2) Rear Seal		2) Bottom Gasket		2) Bolt, Con Rod	
3) Crankshaft Kit		3) Head Gasket		3) Nut, Con Rod	
1) P2418F436		1) PU5LT0017		4) Con Rod	
2) P2418F475		2) PU5LB0056		1) P31134123 x6	
3) PZZ90086		3) P3681H202		2) P32762144 x12	
				3) P33221328 x12	
				4) PZZ90009	
				1) P31416303	
				2) P31434163	
				3) P31434307	
				4) P31171353	
				P31171931 (1)	
				1) Aux. Drive Shaft	
				2) Gear & Shaft	
				3) Gear	
				4) Front Bush	
				5) Rear Bush	
				6) Seal	
				1) P31173423	
				2) P41115367	
				3) P31171733	
				4) P31134129	
				5) P2511447	
				6) P2418F432	
		Valve Train Kit		1) Valve, Intake	
				2) Valve, Exhaust	
				3) Guide, Valve	
				a) Intake	
				b) Exhaust	
				4) Spring, Valve	
				a) Inner	
				b) Outer	
				5) Lock, Valve	
				6) Seal, Valve	
				1) P31431315 x6	
				2) P3142A051 x6	
				a) P3343F002 x6	
				b) P3343J002 x6	
				a) P31744131 x12	
				b) P31745121 x12	
				5) P33173108 x24	
				6) P33817117 x12	
Oil Pump		Lift Pump		1) Water Pump	
				2) Thermostat	
				1) Rocker Shaft	
				2) Rocker Arm LH	
				3) Rocker Arm RH	
				4) Relief Valve	
P4132F015		P2641729		1) PZZ90046	
				2) P41151483	
				3) P41151484	
				4) P41371193	
				P41371195	
				1) PZZ80024	
				2) P2666108	
				(Bayonet Fitting)	

(1) Use Only on Build No: TW70014.

(2) Check with Build List.

(3) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

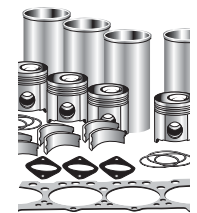
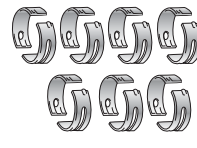
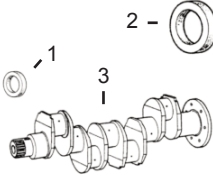
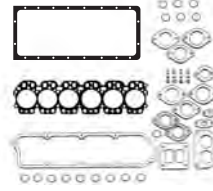
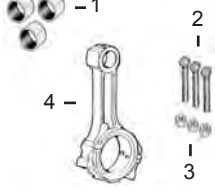
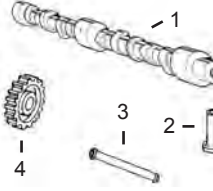
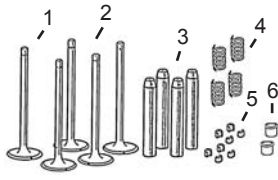
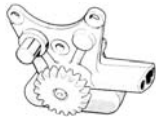
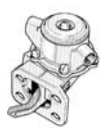
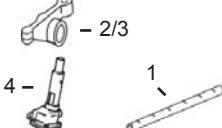
Engine & Equipment Application					
6.354.4 6 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm APPLICATIONS: CLARK EQUIPMENT 45C Shovel (TW70016) NEW HOLLAND Stack Cruiser (TW70031) WHITE FARM 8600 Combine (TW70003)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK619 Consists of:	PU5MB0030 Std.	P85043 Std.	P31137551/61
	1) POK672	a) PU5LP0019	PU5MB0030A .010	P85043A .010	
	2) PBK672	b) P41158017 c) P31358394 (3)	PU5MB0030B .020 PU5MB0030C .030	P85043B .020 P85043C .030	
		6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2418F436 2) P2418F475 3) PZZ90086	1) PU5LT0017 2) PU5LB0056 3) P3681H202	1) P31134123 X6 2) P32762144 X12 3) P33221328 X12 4) PZZ90009	1) P31416303 2) P31434163 3) P31434307 4) P31171353 (4) P31171931 (1)	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK611	1) P31431315 X6 2) P3142A051 X6	a) P3343F002 X6 b) P3343J002 X6	a) P31744131 X12 b) P31745121 X12	5) P33173108 X24 6) P33817117 X12
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head (With Valves) 2) Glowplug	
P4132F015	P2641729	1) P41313027 (1) PU5MW0129 (2) 2) P2485613 X2	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80024 2) P2666108 (Bayonet Fitting)	

(1) Use on Build No: TW70016.

(2) Use on Build No: TW70031/TW70003.

(3) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

(4) Use on Build No: TW70003.

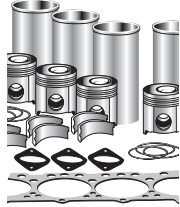
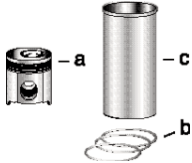
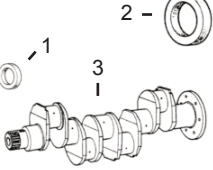
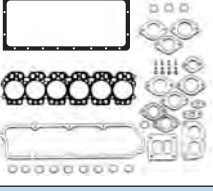
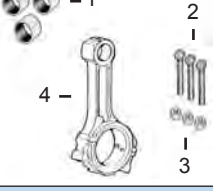
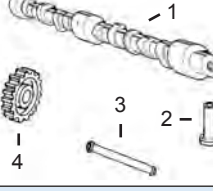
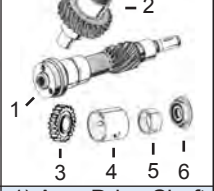
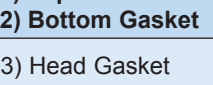
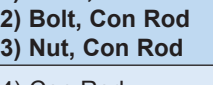
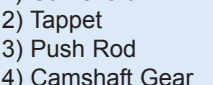
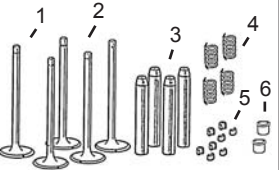
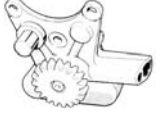
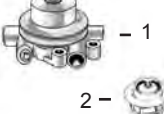
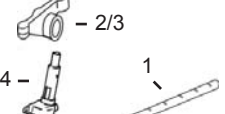
Engine & Equipment Application					
6.354.4					
6 Cyl, Lip Seal					
Bore: 3.8770 in 98.476 mm		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
		2) Basic Engine Kit	PCK619 Consists of:	PU5MB0030 Std.	P85043 Std.
		1) POK673	a) PU5LP0019	PU5MB0030A .010	P85043A .010
		2) PBK673	b) P41158017	PU5MB0030B .020	P85043B .020
			c) P31358394 (3)	PU5MB0030C .030	P85043C .030
			6 Per Engine	Set of 7 Pairs	Set of 6 Pairs
				Set of 2 Pairs	
APPLICATIONS:					
MF AGRICULTURAL					
699 (TW31125)					
2675 (TW31008)		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Aux. Drive Shaft
3090 (TW31159)		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Gear & Shaft
		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Gear
				4) Con Rod	4) Front Bush
WHITE FARM		1) P2418F436	1) PU5LT0033	1) P31416303	1) P31173423 (2)
2-85 Tractor (TW70008)		2) P2418F475	2) PU5LB0056	2) P31434163	2) P41115367
		3) PZZ90086	3) P3681H202	3) P31434307	3) P31171733
				4) P31171353 (1)	4) P31134129
				P31171931	5) P2511447
					6) P2418F432 (4)
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
		PVTK611	1) P31431315 x6 2) P3142A051 x6	a) P3343F002 x6 b) P3343J002 x6	5) Lock, Valve 6) Seal, Valve
					
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head (With Valves) 2) Glowplug
P4132F015		P2641729	1) P41313027 2) P2485613 x2	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80024 2) P2666108 (Bayonet Fitting)

(1) Use Only with Build No: TW31008.

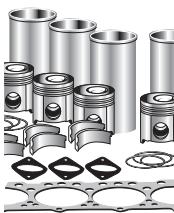
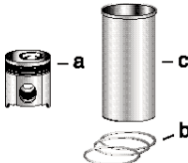
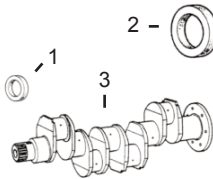
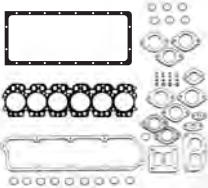
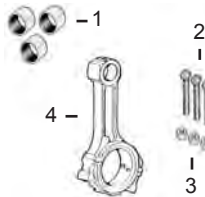
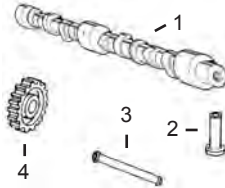
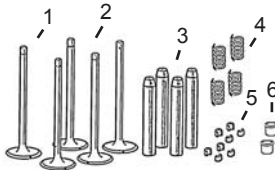
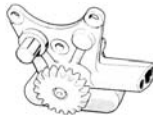
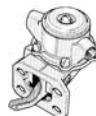
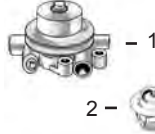
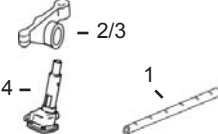
(2) Do Not Use on Build No: TW70008.

(3) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

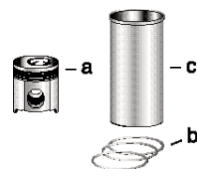
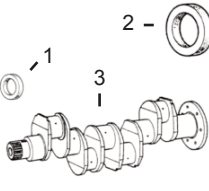
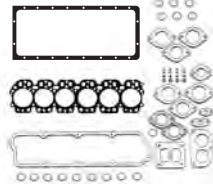
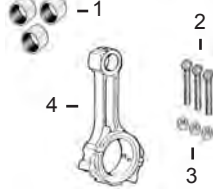
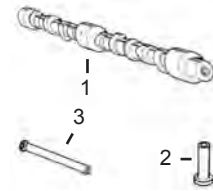
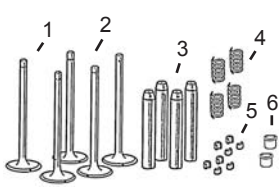
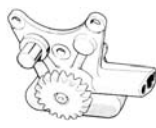
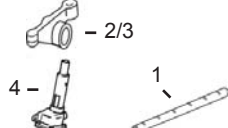
(4) Do not use on Build TW70008.

Engine & Equipment Application					
6.354.4					
6 Cyl, Lip Seal					
Bore: 3.8770 in 98.476 mm		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
		2) Basic Engine Kit	PU5MK0127 Consists of:	PU5MB0030 Std.	P85043 Std.
		1) POK675	a) P86740	PU5MB0030A .010	P85043A .010
		2) PBK675	b) P41158041	PU5MB0030B .020	P85043B .020
			c) P31358394 (1)	PU5MB0030C .030	P85043C .030
			6 Per Engine	Set of 7 Pairs	Set of 6 Pairs
					Set of 2 Pairs
APPLICATIONS:					
MARINE					
Pleasure Craft (TW33196/7)		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Camshaft
Commercial/Pleasure Craft (TW70087)		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Tappet
		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Push Rod
				4) Con Rod	4) Camshaft Gear
		1) P2418F436	1) P68243	1) P31134123 x6	1) P31416303
		2) P2418F475	2) PU5LB0056	2) P32762144 x12	2) P31434163
		3) PZZ90086	3) P3681H202	3) P33221328 x12	3) P31434307
				4) PZZ90009	4) P31171931
					1) P31173423
					2) P41115367
					3) P31171733
					4) P31134129
					5) P2511447
					6) P2418F432
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
		PVTK617	1) P31431315 x6 2) P3142A051 x6	a) P3343F002 x6 b) P3343J002 x6	5) Lock, Valve 6) Seal, Valve
					
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head 2) Glowplug
P4132F015		P2641729	1) N/A 2) P2485604 x2	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80071 2) P2666108 (Bayonet Fitting)

(1) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

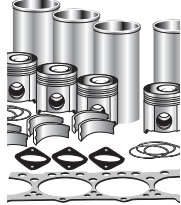
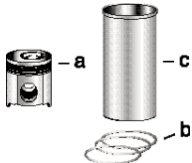
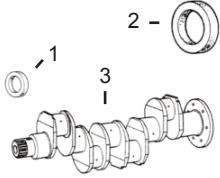
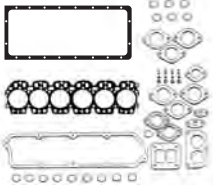
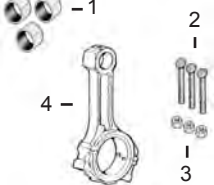
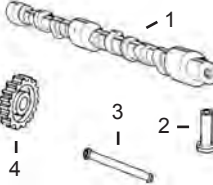
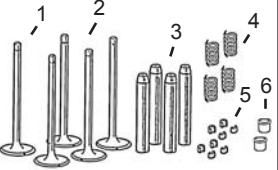
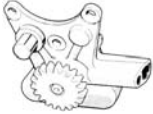
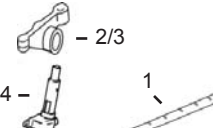
Engine & Equipment Application					
T6.354.4					
TURBOCHARGED					
6 Cyl, Lip Seal					
Bore: 3.8770 in 98.476 mm					
APPLICATIONS:					
MF AGRICULTURAL					
560 (TU31074/TU31126)					
660 (TU31076)					
TX750/850 (TU31006)					
WHITE FARM					
8800 Combine (TU70001)					
					
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
2) Basic Engine Kit	PU5MK0071 Consists of: a) P68803 b) P41158005 c) P31358394 (1)	PU5MB0030 Std. PU5MB0030A .010 PU5MB0030B .020 PU5MB0030C .030	PU5ME0003 Std. PU5ME0003A .010 PU5ME0003B .020 PU5ME0003C .030	P31137551/61	
1) POK680	6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs	
2) PBK680					
					
1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Camshaft	1) Aux. Drive Shaft	
2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Tappet	2) Gear & Shaft	
3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Push Rod	3) Gear	
		4) Con Rod	4) Camshaft Gear	4) Front Bush	
				5) Rear Bush	
				6) Seal	
1) P2418F436	1) PU5LT0018	1) P31134131 x6	1) P31416303	1) P31173423	
2) P2418F475	2) PU5LB0056	2) P32762144 x12	2) P31434163	2) P41115367	
3) PZZ90105	3) P3681H202	3) P33221328 x12	3) P31434307	3) P31171733	
		4) PZZ90013	4) P31171931	4) P31134129	
				5) P2511447	
				6) P2418F432	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	
	PVTK611	1) P31431315 x6 2) P3142A051 x6	a) P3343F002 x6 b) P3343J002 x6	a) P31744131 x12 b) P31745121 x12	
				5) P33173108 x24 6) P33817117 x12	
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head (With Valves) 2) Glowplug	
P4132F016	P2641729	1) PU5MW0132 2) P2485613 x2	1) PZZ90046 2) P41151483 3) P41151484 4) P41371194	1) PZZ80024 2) P2666108 (Bayonet Fitting)	

(1) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

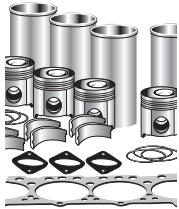
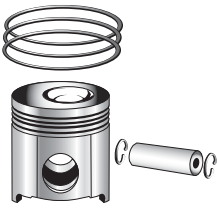
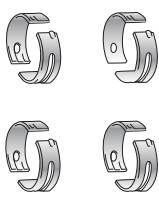
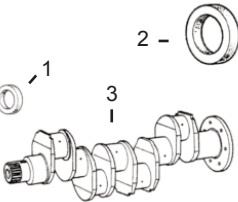
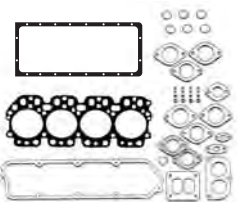
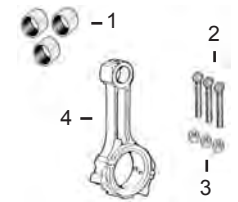
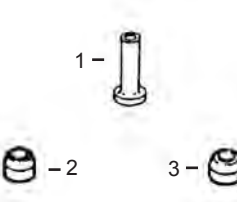
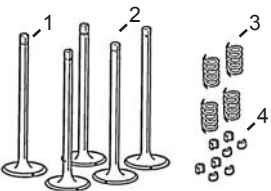
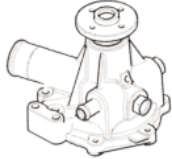
Engine & Equipment Application											
T6.354.4 TURBOCHARGED 6 Cyl, Lip Seal Bore: 3.8770 in 98.476 mm APPLICATIONS: JCB 418 Wheel Loader (TU50037) MF AGRICULTURAL 2680/2685 (TU31045/6) 3530 (TU31143) RX95 (TU31010) WHITE FARM 2-105 (TU70018)		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		PU5MK0071 Consists of:		PU5MB0030 Std.		PU5ME0003 Std.		P31137551/61	
		1) POK681		a) P68803		PU5MB0030A .010		PU5ME0003A .010			
		2) PBK681		b) P41158005 c) P31358394 (2)		PU5MB0030B .020 PU5MB0030C .030		PU5ME0003B .020 PU5ME0003C .030			
		6 Per Engine		Set of 7 Pairs		Set of 6 Pairs		Set of 2 Pairs			
											
1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod		1) Camshaft 2) Tappet 3) Push Rod		1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal			
3) Crankshaft Kit		3) Head Gasket		4) Con Rod							
1) P2418F436 2) P2418F475 3) PZZ90105		1) PU5LT0033 2) PU5LB0056 3) P3681H202		1) P31134131 x6 2) P32762144 x12 3) P33221328 x12 4) PZZ90013		1) P31416303 2) P31434163 3) P31434307		1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve a) Inner b) Outer		5) Lock, Valve 6) Seal, Valve	
		PVTK611		1) P31431315 x6 2) P3142A051 x6		a) P3343F002 x6 b) P3343J002 x6		a) P31744131 x12 b) P31745121 x12		5) P33173108 x24 6) P33817117 x12	
											
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve		1) Cylinder Head (With Valves) 2) Glowplug			
P4132F016		P2641729		1) P41313027 (1) 2) P2485613 x2		1) PZZ90046 2) P41151483 3) P41151484 4) P41371194		1) PZZ80024 2) P2666108 (Bayonet Fitting)			

(1) Use Only on Build No: TU31143/TU70018.

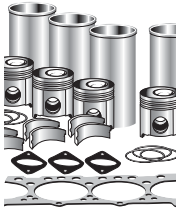
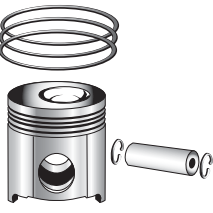
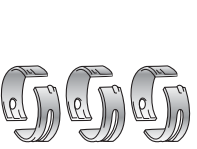
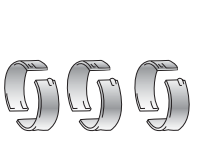
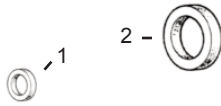
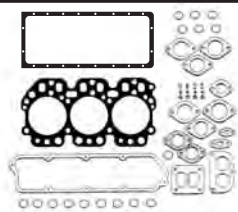
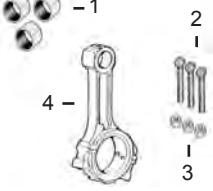
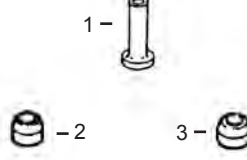
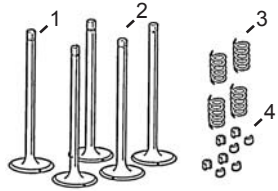
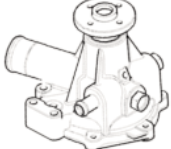
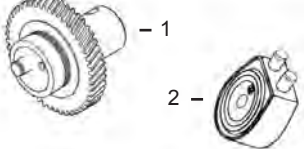
(2) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application						
T6.354.4						
TURBOCHARGED		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
6 Cyl, Lip Seal		2) Basic Engine Kit	PU5MK0071 Consists of: a) P68803 b) P41158005 c) P31358394 (1) 6 Per Engine	PU5MB0030 Std.	PU5ME0003 Std.	P31137551/61
Bore: 3.8770 in 98.476 mm		1) POK682		PU5MB0030A .010	PU5ME0003A .010	
		2) PBK682		PU5MB0030B .020	PU5ME0003B .020	
				PU5MB0030C .030	PU5ME0003C .030	
			Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs	
APPLICATIONS:						
MARINE		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Camshaft	1) Aux. Drive Shaft
Pleasure Craft (TU33203)		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Tappet	2) Gear & Shaft
Pleasure Craft (TU70025)		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Push Rod	3) Gear
				4) Con Rod	4) Camshaft Gear	4) Front Bush
						5) Rear Bush
						6) Seal
		1) P2418F436	1) P68243	1) P31134131 x6	1) P31416303	1) P31173423
		2) P2418F475	2) PU5LB0056	2) P32762144 x12	2) P31434163	2) P41115367
		3) PZZ90105	3) P3681H202	3) P33221328 x12	3) P31434307	3) P31171733
				4) PZZ90013	4) P31171931	4) P31134129
						5) P2511447
						6) P2418F432
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
		PVTK617	1) P31431315 x6 2) P3142A051 x6	a) P3343F002 x6 b) P3343J002 x6	a) N/A b) N/A	5) P33173108 x24 6) P33817117 x12
						
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head 2) Glowplug		
P4132F016	P2641729	1) N/A 2) P2485604 x2	1) PZZ90046 2) P41151483 3) P41151484 4) P41371194	1) N/A 2) P2666108 (Bayonet Fitting)		

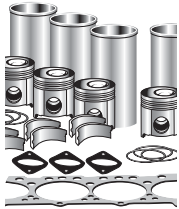
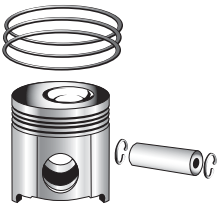
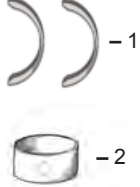
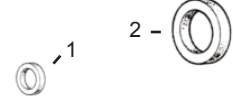
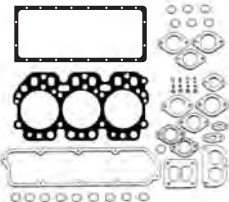
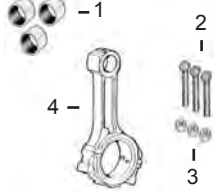
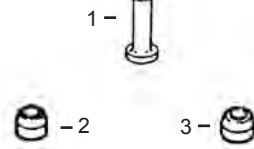
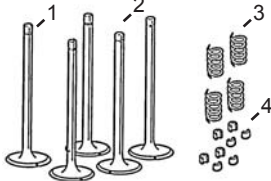
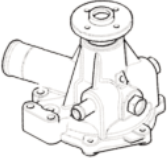
(1) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

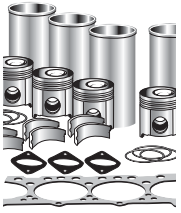
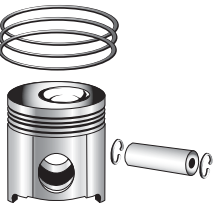
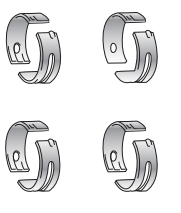
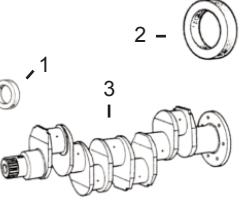
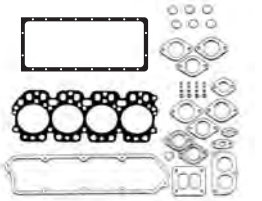
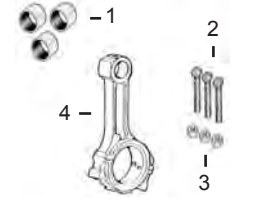
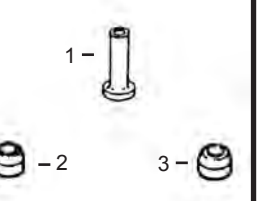
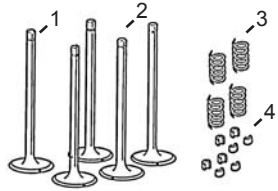
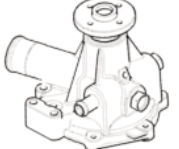
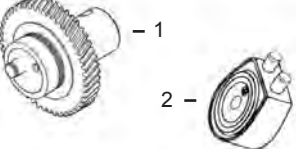
Engine & Equipment Application						
104-22 (KR, KRC, KRG)						
NATURALLY ASPIRATED						
4 Cyl						
Bore: 3.3 in 84.00 mm						
Stroke: 3.9 in 100.00 mm						
Displacement: 135 in ³ 2.216 Liter						
Compression Ratio: 22:1						
						
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve	
		1) P198636160 2) P050209083 3) P115256990	1) PU5LC0017 (1) 2) P111147741 3) P120996130 4) P111996401 5) P110996920	1) P198517265 x4 2) P115176140 x8 3) P020109120 x8 4) P115026330	1) P120116160 2) P120406070 x4 3) P120406050 x4	
			Valve Train Kit 1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve	
		PVTK440	1) P120166350 x4 2) P120176360 x4	3) P198216700 x8	4) P120226070 x16	
						
		Water Pump	Oil Pump	Thermostat	Repair Sleeve	
		P145017951	PU5MK8266	P145206182	84RS	

(1) Does not include Crankshaft Oil Seals.

Engine & Equipment Application					
403C-15 (HL, HLC, HLG) NATURALLY ASPIRATED SHIBAURA® N843-C 3 Cyl Bore: 3.3 in 84.00 mm Stroke: 3.5 in 90.00 mm Displacement: 91 in ³ 1.496 Liter Compression Ratio: 22.5:1					
					
		1) Engine O/H Kit	Piston Kit Ring Set	Main Bearing Set	Con Rod Bearing Set
		2) Basic Engine Kit	P115017541 Std. P115017541B 0.50	P198586050 Std. P198586054 .010 P198586057 .020	P198586080 Std. P198586084 .010 P198586087 .020
		1) POK316 Std. POK317 0.50 2) PBK316 Std. PBK317 0.50	P115107970 Std. P115107970B 0.50 3 Per Engine	Set of 3 Pairs	Set of 3 Pairs
					
		1) Front Seal 2) Rear Seal	1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
		1) P198636160 2) P198636170	1) PU5LC0018 2) P111147501 3) P120996140 4) P111996410 5) P110996910	1) P198517265 x3 2) P115176140 x6 3) P020109120 x6 4) P115026251	1) P120116160 2) P120406070 x3 3) P120406050 x3
			Valve Train Kit 1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
		PVTK308	1) P120166350 x3 2) P120176360 x3	3) P198217470 x6	4) P120226070 x12
					
		Water Pump	1) Oil Pump 2) Oil Cooler	Thermostat	Repair Sleeve
		P145017951	1) PU5MK8266 2) P2486A218 (1)	P145206182	84RS

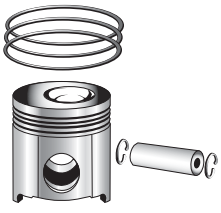
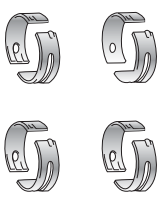
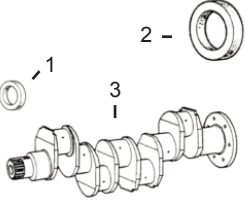
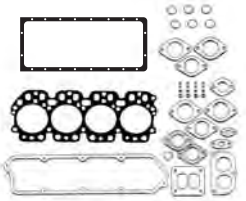
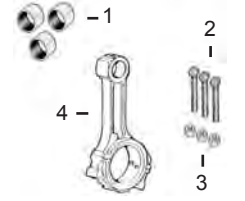
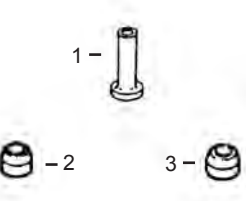
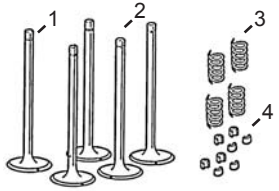
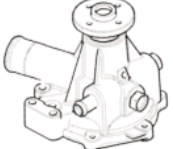
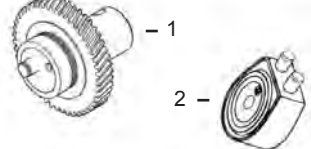
(1) "GK" build ONLY.

Engine & Equipment Application					
403C-17 (HM)					
NATURALLY ASPIRATED					
3 Cyl		1) Engine O/H Kit	Piston Kit Ring Set	Main Bearing Set	Con Rod Bearing Set
2) Basic Engine Kit		P115017491 Std. P115017491B 0.50	P198586050 Std. P198586054 .010 P198586057 .020	P198586080 Std. P198586084 .010 P198586087 .020	1) Thrust Washer 2) Crank Bushing
1) POK318 Std. POK319 0.50		P115107970 Std. P115107970B 0.50			1) P199266200 x2
2) PBK318 Std. PBK319 0.50		3 Per Engine	Set of 3 Pairs	Set of 3 Pairs	2) P198517222 Std. P198517226 .010 P198517229 .020
Bore: 3.3 in 84.00 mm					
Stroke: 3.5 in 100.00 mm		1) Front Seal 2) Rear Seal	1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
Displacement: 101.4 in³ 1.662 Liter		1) P198636160 2) P050209083	1) PU5LC0018 2) P111147501 3) P120996140 4) P111996410 5) P110996910	1) P198517265 x3 2) P115176140 x6 3) P020109120 x6 4) P115026330	1) P120116160 2) P120406070 x3 3) P120406050 x3
Compression Ratio: 22.5:1			Valve Train Kit 1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
		PVTK309	1) P120166350 x3 2) P120176360 x3	3) P198216700 x6	4) P120226070 x12
					
Water Pump		Oil Pump	Thermostat	Repair Sleeve	
P145017951		PU5MK8266	P145206182	84RS	

Engine & Equipment Application	   				
404C-22 (HP, HPC, HPG) NATURALLY ASPIRATED SHIBAURA [®] N844L-C 4 Cyl Bore: 3.3 in 84.00 mm Stroke: 3.9 in 100.00 mm Displacement: 135 in ³ 2.216 Liter Compression Ratio: 23.3:1					
	1) Engine O/H Kit	Piston Kit Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
	2) Basic Engine Kit	P115017491 Std. P115017491B 0.50	P198586140 Std. P198586150 .010 P198586160 .020	PU5ME0011 Std. PU5ME0011A .010 PU5ME0011B .020	1) P199266200/10 Set of 3 Pcs 2) P198517222 Std. P198517226 .010 P198517229 .020
	1) POK404 Std. POK405 0.50	P115107970 Std. P115107970B 0.50			
	2) PBK404 Std. PBK405 0.50	4 Per Engine	Set of 4 Pairs	Set of 4 Pairs	
	   				
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve	
	3) Crankshaft Kit				
	1) P198636160 2) P050209083 3) P115256990	1) PU5LC0017 (1) 2) P111147741 3) P120996130 4) P111996401 5) P110996920	1) P198517265 x4 2) P115176140 x8 3) P020109120 x8 4) P115026330	1) P120116160 2) P120406070 x4 3) P120406050 x4	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve	
	PVTK440	1) P120166350 x4 2) P120176360 x4	3) P198216700 x8	4) P120226070 x16	
					
Water Pump		1) Oil Pump 2) Oil Cooler		Thermostat	
P145017951		1) PU5MK8266 2) P2486A218 (2)		P145206182	
				84RS	
					
				Repair Sleeve	

(1) Does not include Crankshaft Oil Seals.

(2) "HP" build ONLY.

Engine & Equipment Application											
404C-22T (HR, HRC)		1) Engine O/H Kit		Piston Kit Ring Set		Main Bearing Set		Con Rod Bearing Set		1) Thrust Washer 2) Crank Bushing	
TURBOCHARGED		2) Basic Engine Kit		P115017581 Std. P115017581B 0.50		P198586140 Std.		PU5ME0011 Std.		1) P199266200/10	
SHIBAURA®		1) POK406 Std. POK407 0.50		P115104021 Std. P115104021B 0.50		P198586150 .010 P198586160 .020		PU5ME0011A .010 PU5ME0011B .020		Set of 3 Pcs 2) P198517222 Std. P198517226 .010 P198517229 .020	
N844LT-C		2) PBK406 Std. PBK407 0.50		4 Per Engine		Set of 4 Pairs		Set of 4 Pairs			
4 Cyl											
Bore: 3.3 in 84.00 mm		1) Front Seal 2) Rear Seal		1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod		1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve			
Stroke: 3.9 in 100.00 mm		3) Crankshaft Kit									
Displacement: 135 in ³ 2.216 Liter		1) P198636160 2) P050209083 3) P115256990		1) P404TOG (1) 2) P111147741 3) P120996130 4) P111996401 5) P110996920		1) P198517265 x4 2) P115176140 x8 3) P020109120 x8 4) P115026330		1) P120116160 2) P120406070 x4 3) P120406050 x4			
Compression Ratio: 23.3:1											
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Spring, Valve		4) Lock, Valve			
		PVTK440		1) P120166350 x4 2) P120176360 x4		3) P198216700 x8		4) P120226070 x16			
											
Water Pump		1) Oil Pump 2) Oil Cooler		Thermostat		Repair Sleeve					
P145017951		1) PU5MK8266 2) P2486A218		P145206182		84RS					

(1) Does not include Crankshaft Oil Seals.

Engine & Equipment Application					
1004.40 NATURALLY ASPIRATED 4 Cyl, Lip Seal Kits include both rear seals Bore: 3.937 in 100 mm <u>APPLICATIONS:</u> HYSTER H70-155XL (AA70218) S80-S155XL (AA70216) JCB 3CX Backhoe (AA50508) Backhoe Loader (AA50608)					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK142 Consists of:	P81558 Std.	P85042 Std.	P31137551/61
	1) POK470	a) PMXF0015	P81558A .010	P85042A .010	
	2) PBK470	b) P4181A019 c) P3135X042 (1)	P81558B .020 P81558C .030	P85042B .020 P85042C .030	
		4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
	1) P2418F436 2) P2418F475 (3) P2418F701 (4) 3) PZZ90202	1) PU5LT0178 2) PU5LB0151 3) P3681A021 4) P3681E025 5) PU5MK0600	1) P31134123 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90009	1) P31134132 x1 2) P31415361 3) P31434163 4) P31434307	1) N/A 2) P31171353 3) N/A
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve (2) a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK415	1) P3142L051 x4 2) P3142A051 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744133 x8 b) P31745122 x8	5) P33173108 x16 6) P33817117 x8
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head 2) Glowplug	
P4132F051	P2641A067	1) P4131E012 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A222 (5)	1) N/A 2) P2666108 (Bayonet Fitting)	

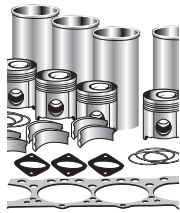
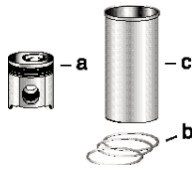
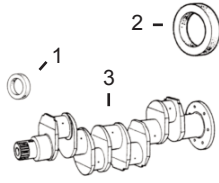
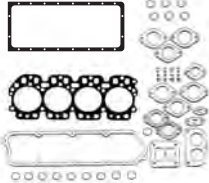
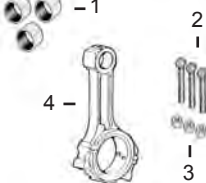
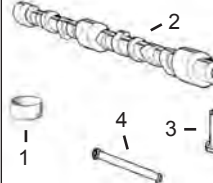
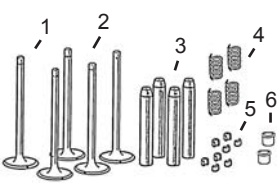
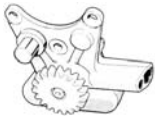
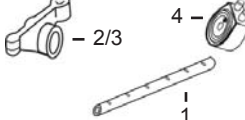
(1) Flanged, Semi Finished Liner available, **P3135X041**.

(2) Use Single Spring, Valve **P3174P405** for low speed applications (Not included in Kit).

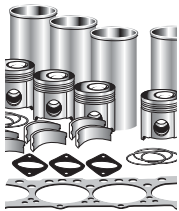
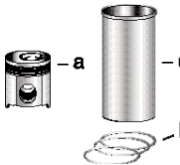
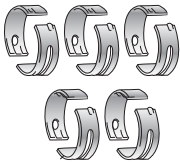
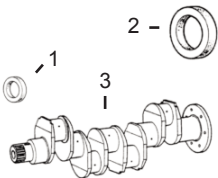
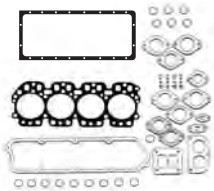
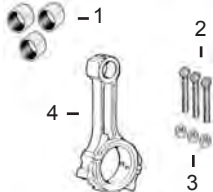
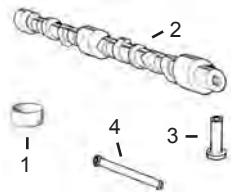
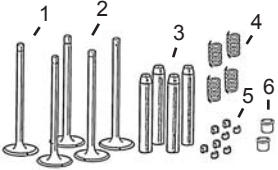
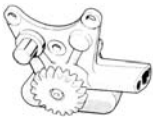
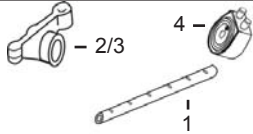
(3) To ESN U176356H.

(4) From ESN U176357H.

(5) Applies to AA50608 ONLY.

Engine & Equipment Application					
1004.40					
NATURALLY ASPIRATED					
4 Cyl, Lip Seal		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
Kits include both rear seals		2) Basic Engine Kit	PCK1562 Consists of:	P81558 Std.	P85042 Std.
Bore: 3.937 in 100 mm		1) POK478	a) PMXF0015	P81558A .010	P85042A .010
		2) PBK478	b) P4181A019	P81558B .020	P85042B .020
			c) P3135X062 (1)	P81558C .030	P85042C .030
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs
APPLICATIONS:					
GENSETS		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Crankshaft Gear
FG WILSON (AA50721)		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft Gear
GENSET (AA37530)			3) Valve Cover Gsk	3) Nut, Con Rod	3) Idler Gear
PERKINS SABRE		3) Crankshaft Kit	4) Head Gasket	4) Con Rod	
44GM ELECTROPAK (AA30415)		1) P2418F436	1) PU5LT0178	1) P31134123 x4	1) N/A
(AA30416)		2) P2418F475 (2)	2) PU5LB0151	2) P32762144 x8	2) P31171353
		P2418F701 (3)	3) P3681A021	3) P33221328 x8	3) N/A
		3) PZZ90202	4) P3681E025	4) PZZ90009	
			5) PU5MK0600		
		Valve Train Kit	1) Valve, Intake	3) Guide, Valve	4) Spring, Valve (2)
			2) Valve, Exhaust	a) Intake b) Exhaust	a) Inner b) Outer
		PVTK415	1) P3142L051 x4	a) P3343F002 x4	5) Lock, Valve
			2) P3142A051 x4	b) P3343J002 x4	6) Seal, Valve
					
Oil Pump		Lift Pump	1) Water Pump	1) Rocker Shaft	1) Cylinder Head
			2) Thermostat	2) Rocker Arm LH	2) Glowplug
				3) Rocker Arm RH	
				4) Oil Cooler	
P4132F051		P2641A067	1) P4131E012	1) PZZ90032	1) N/A
			2) P2485613	2) P41151483	2) P2666108
				3) P41151484	(Bayonet Fitting)
				4) P2486A222	

(1) Flanged, Semi Finished Liner available, **P3135X063**.
(2) To ESN U176356H.
(3) From ESN U176357H.

Engine & Equipment Application						
1004.40T TURBOCHARGED 4 Cyl, Lip Seal Bore: 3.937 in 100 mm To ESN U608300W (1992)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK245 Consists of: a) PMXF0013 b) P4181A021 c) P3135X042 (1) 4 Per Engine	P81558 Std. P81558A .010 P81558B .020 P81558C .030 Set of 5 Pairs	PU5ME0006 Std. PU5ME0006A .010 PU5ME0006B .020 PU5ME0006C .030 Set of 4 Pairs	P31137551/61 Set of 2 Pairs
		1) POK471				
		2) PBK471				
APPLICATIONS: JCB 3CX Backhoe (AB50609) 3CX Backhoe (AB50279) 415 Loader (AB50253)						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	
		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
		1) P2418F436 2) P2418F475 3) PZZ90212	1) PU5LT0178 2) PU5LB0152 3) P3681A021 4) P3681E025 5) PU5MK0600	1) P31134131 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90013 (3) PZZ90058 (3) (4)	1) P31134132 x1 2) P31415361 3) P31434163 4) P31434307	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve (2) a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
		PVTK416	1) P3142L071 x4 2) P3142A051 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744133 x8 b) P31745122 x8	5) P33173108 x16 6) P33817117 x8
						
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head 2) Glowplug	
P4132F056		P2641A067	1) P4131E012 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A222 (5)	1) N/A 2) P2666108 (Bayonet Fitting)	

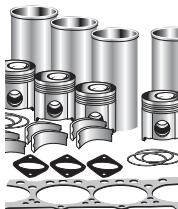
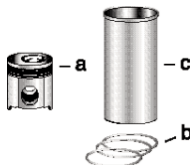
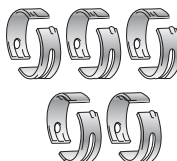
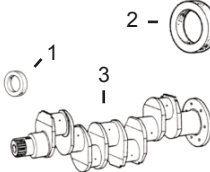
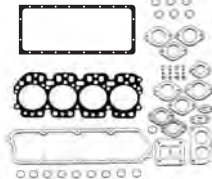
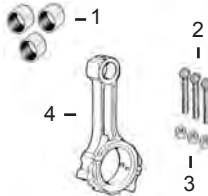
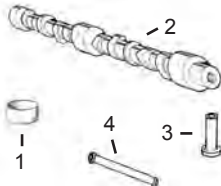
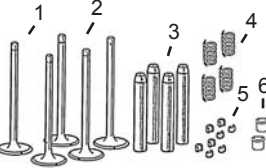
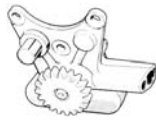
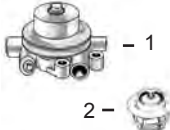
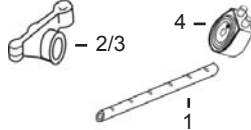
(1) Flanged, Semi Finished Liner available, **P3135X041**.

(5) Applies to AB50609 ONLY.

(2) Use Single Spring, Valve **3174P405** for low speed applications (Not available from Maxiforce).

(3) Check with Build List.

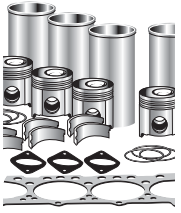
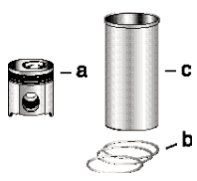
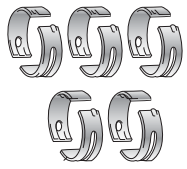
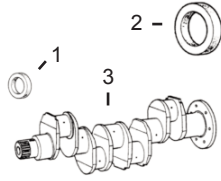
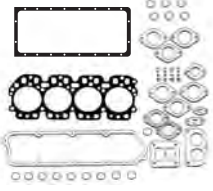
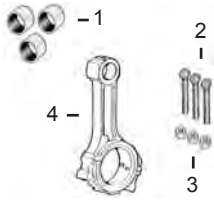
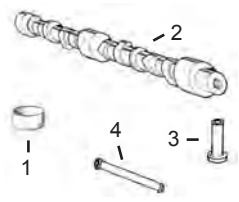
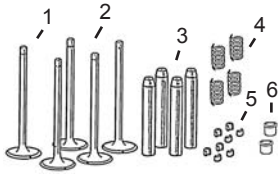
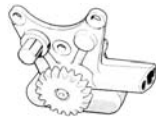
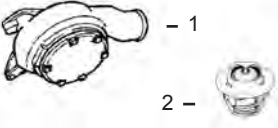
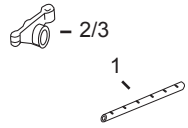
(4) Fracture Split Type.

Engine & Equipment Application 1004.40T TURBOCHARGED 4 Cyl, Lip Seal Kits include both rear seals Bore: 3.937 in 100 mm From ESN U608301W (1992) APPLICATIONS: JCB 3CX Backhoe (AB50609) 3CX Backhoe (AB50279) 415 Loader (AB50253)	    	1) Engine O/H Kit 2) Basic Engine Kit 1) POK472 2) PBK472	Piston-Liner Kit PCK275 Consists of: a) PMXF0014 b) P4181A026 c) P3135X042 (1) 4 Per Engine	Main Bearing Set P81558 Std. P81558A .010 P81558B .020 P81558C .030 Set of 5 Pairs	Con Rod Bearing Set PU5ME0006 Std. PU5ME0006A .010 PU5ME0006B .020 PU5ME0006C .030 Set of 4 Pairs	Thrust Washer Set P31137551/61 Set of 2 Pairs
	   	1) Front Seal 2) Rear Seal 3) Crankshaft Kit 1) P2418F436 2) P2418F475 (4) P2418F701 (5) 3) PZZ90212	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk 4) Head Gasket 5) Oil Pan Set 1) PU5LT0178 2) PU5LB0152 3) P3681A021 4) P3681E025 5) PU5MK0600	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod 1) P31134131 x4 2) P32762144 x8 3) P33221328 x8 4) PZZ90013 (3)	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Push Rod 1) P31134132 x1 2) P31415361 3) P31434163 4) P31434307	
	Valve Train Kit PVTK417	1) Valve, Intake 2) Valve, Exhaust 1) P3142L072 x4 2) P3142A051 x4	3) Guide, Valve a) Intake b) Exhaust 1) P3343F002 x4 2) P3343J002 x4	4) Spring, Valve (2) a) Inner b) Outer 1) P31744133 x8 2) P31745122 x8	5) Lock, Valve 6) Seal, Valve 1) P33173108 x16 2) P33817117 x8	
 Oil Pump	 Lift Pump	 1) Water Pump 2) Thermostat	 1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	 1) Cylinder Head 2) Glowplug		
P4132F056	P2641A067	1) P4131E012 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A222 (6)	1) N/A 2) P2666108 (Bayonet Fitting)		

(4) To ESN U176356H.

(5) From ESN U176357H.

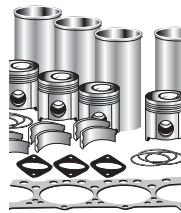
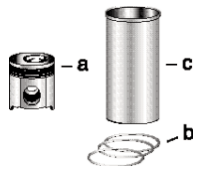
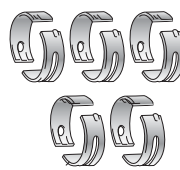
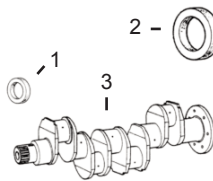
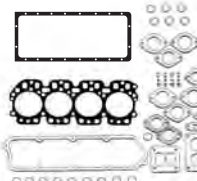
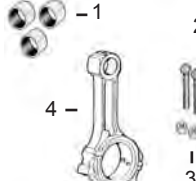
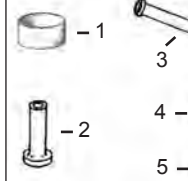
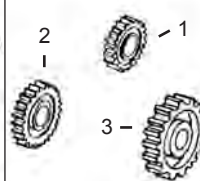
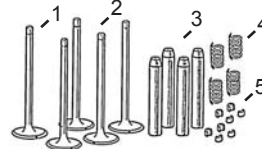
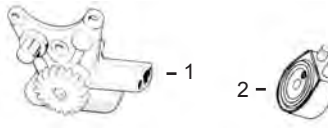
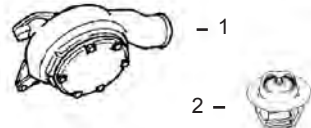
(6) Applies to AB50609 ONLY.

Engine & Equipment Application						
1004.40T TURBOCHARGED / INTERCOOLED 4 Cyl, Lip Seal Bore: 3.9370 in 100.00 mm Stroke: 5.00 in 127.00 mm GRADE "L" Piston height: 70.161 mm 2.762 in						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK624 Consists of: a) PU5LF0024 b) P4181A026 c) P3135X062 (1) 4 Per Engine	P81558 Std. P81558A .010 P81558B .020 P81558C .030 Set of 5 Pairs	PU5ME0006 Std. PU5ME0006A .010 PU5ME0006B .020 PU5ME0006C .030 Set of 4 Pairs	P31137551/61 Set of 2 Pairs
		1) POK496				
APPLICATIONS: Used in certain Industrial, Automotive, Construction, Generator Set & Marine Applications.						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk	1) Bush, Con Rod 2) Bolt, Con Rod 3) Dowel, Con Rod	1) Bushing, Cam	
		3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
		1) P2418F436 2) P2418F475 3) PZZ90212	1) PU5LT0178 2) PU5LB0152 3) P3681A021 4) P3681E025 5) PU5MK0600	1) P3112E005 x4 (2) 2) P32186142 x8 3) P3246A001 x8 4) PZZ90146	1) P31134132 x1 2) P31415361 3) P31434163 4) P31434307	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
		PVTK417	1) P3142L072 x4 2) P3142A051 x4	a) P3343F002 x4 b) P3343J002 x4	a) P31744133 x8 b) P31745122 x8	5) P33173108 x16 6) P33817117 x8
						
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
P4132F056		P2641A067	1) P4131E012 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) N/A 2) P2666108 (Bayonet Fitting)	

(1) Flanged, Semi Finished Liner available, **P3135X063**.

(2) Use with Con Rod ZZ90146.

(3) 30° Angle.

Engine & Equipment Application										
1004.40/40T TURBOCHARGED or NATURALLY ASPIRATED		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set				
4 Cyl, Lip Seal Kits include both rear seals Bore: 3.937 in 100 mm		2) Basic Engine Kit	PCK5762 Consists of: a) PU5LP0057 b) P4181A033 c) P3135X062 (1)	P81558 Std. P81558A .010 P81558B .020 P81558C .030	PU5ME0006 Std. (6) PU5ME0006A .010 PU5ME0006B .020 PU5ME0006C .030	P31137551/61				
ENGINES 4.401 AJ T4.401 AK CCW4.401 AM N4.401 AP TN4.401 AQ APPLICATIONS: JCB Backhoe (AK50628) Shovel Loader (AM50610) MF AGRICULTURAL Tractor (AK31299)		1) POK473/45 POK473/30	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs				
		2) PBK473								
										
		1) Front Seal 2) Rear Seal					1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
		3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gsk	4) Con Rod						
		1) P2418F436 2) P2418F475 (3) P2418F701 (4) 3) PZZ90212 (7) PZZ90226 (7)	1) PU5LT0202 2) PU5LB1171 (9) 3) P3681E025 4) P3681A049	1) P3112A005 x4 2) P32762144 x8 P3212V003 x8 (5) 3) P33221328 x8 4) P4115C314 (8)	1) P31134132 x1 2) P31434163 3) P31434307 4) P2418M505 x4 5) P2418M506 x4	1) N/A 2) P3117L023 3) N/A				
		Valve Train Kit a) 45° Angle b) 30° Angle	1) Valve, Intake 2) Valve, Exhaust a) 45° Angle b) 30° Angle	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve				
		a) PVTK423 b) PVTK424	1a) P3142D041 x4 b) P3142L081 x4 2a) P3142D031 x4 b) P3142D051 x4	a) P3313A012 x4 b) P3318A705 x4	4) P3174P409 x8	5) P3142W004 x16				
		1) Oil Pump 2) Oil Cooler	Lift Pump							
				1) Water Pump 2) Thermostat	1) Cylinder Head 2) Glowplug					
1) P4132F056 P4132F041 (2) 2) P2486A219 P2486A222			P2641A067	1) PU5MW0192 2) P2485C036	1) N/A 2) P2666108 (Bayonet Fitting)					

(1) Flanged, Semi Finished Liner available, **P3135X063**.

(2) Use in engines with Balancer Units.

(3) To ESN U176356H.

(4) From ESN U176357H.

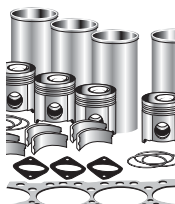
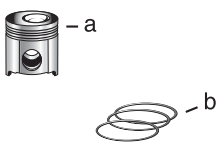
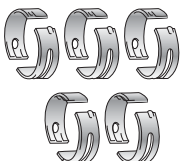
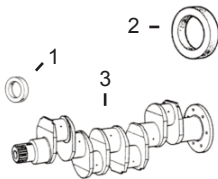
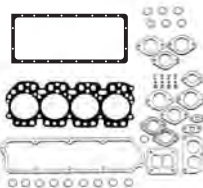
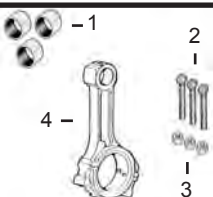
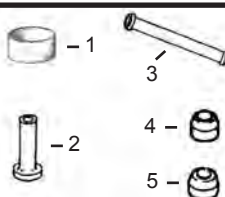
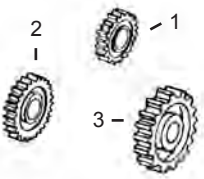
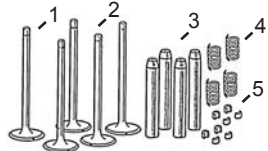
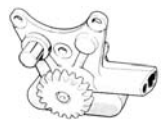
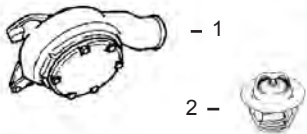
(5) Use with Fractured Split Con Rod.

(6) Use Con Rod Bearing Set, **PU5ME0013**, from ESN U284278J. Order POK473/45NB or /30NB or PBK473NB and nominate the bearings.

(7) **PZZ90212** To ESN U284277J and **PZZ90226** From ESN U284278J.

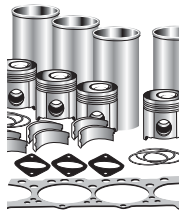
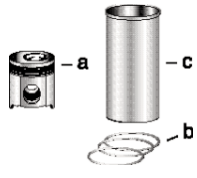
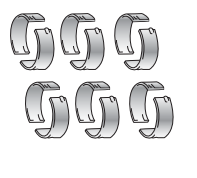
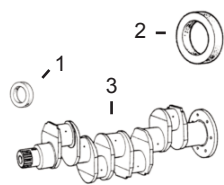
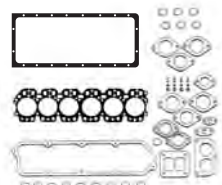
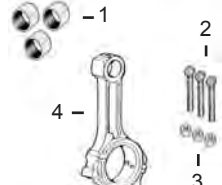
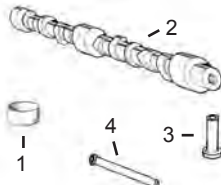
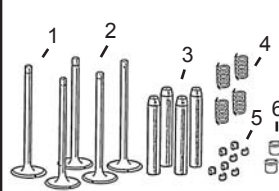
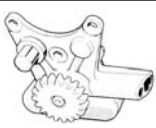
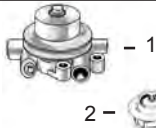
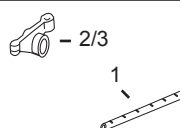
(8) Grade J, Color Coded Green.

(9) May use Bottom Gasket Set **PU5LB1310**.

Engine & Equipment Application											
1004.42		1) Engine O/H Kit		a) Piston b) Ring Set		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
NATURALLY ASPIRATED		2) Basic Kit		a) PU5LP0058 Std. PU5LP0058B 0.50 PU5LP0058D 1.00		P81558 Std.		P85042 Std. (5)		P31137551/61	
4 Cyl, Lip Seal		1) POK474 Std. 0.50 POK475 0.50 POK476 1.00		b) P4181A045 Std. P4181A046 0.50 P4181A047 1.00		P81558A .010 P81558B .020 P81558C .030		P85042A .010 P85042B .020 P85042C .030			
Kits include both rear seals		2) PBK474 Std. 0.50 PBK475 0.50 PBK476 1.00		4 Per Engine		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
Sleeveless Engines											
		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod		1) Bushing, Cam		1) Crankshaft Gear	
		3) Crankshaft Kit		3) Head Gasket 4) Valve Cover Gsk		4) Con Rod		2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve		2) Camshaft Gear 3) Idler Gear	
ENGINES		BUILDS		1) P2418F436 2) P2418F475 (1) P2418F701 (2) 3) PZZ90202 (6) PZZ90226 (6)		1) PU5LT0317 2) PU5LB1171 (7) 3) P3681E042 4) P3681A049		1) P31134132 x1 2) P31434163 3) P31434307 4) P2418M505 x4 5) P2418M506 x4		1) P31171681 2) P3117L023 3) N/A	
APPLICATIONS:											
JCB (AR50690)											
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve		5) Lock, Valve	
		PVTK422		1) P3142H041 x4 2) P3142D061 x4		a) P3313A012 x4 b) P3318A705 x4		4) P3174P412 x8		5) P3142W004 x16	
											
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat		1) Cylinder Head 2) Glowplug					
P4132F051		P2641A067		1) PU5MW0192 2) P2485C036		1) N/A 2) P2666108 (Bayonet Fitting)					

(1) To ESN U176356H.
(2) From ESN U176357H.
(3) Use with fractured split conrod.
(4) Grade J, Color Coded Green.

(5) Use Con Rod Bearing Set, **PU5ME0013**, from ESN U284278J. Order POK473/45NB or /30NB or PBK473NB and nominate the bearings.
(6) **PZZ90202** To ESN U284277J and **PZZ90226** From ESN U284278J.
(7) May use Bottom Gasket Set **PU5LB1310**.

Engine & Equipment Application					
1006.60					
6 Cyl, Lip Seal Kits include both rear seals		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
Bore: 3.9370 in 100.00 mm		2) Basic Engine Kit	PCK142 Consists of:	PU5MB0030 Std.	P85043 Std.
		1) POK690	a) PMXF0015	PU5MB0030A .010	P85043A .010
		2) PBK690	b) P4181A019	PU5MB0030B .020	P85043B .020
			c) P3135X042 (1)	PU5MB0030C .030	P85043C .030
			6 Per Engine	Set of 7 Pairs	Set of 6 Pairs
					Set of 2 Pairs
APPLICATIONS:					
HYSTER H165-280 Forklift (YA70217)		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam
JCB Wheeled Loader (YA50214) Industrial (YA50339)		3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod
MF AGRICULTURAL 396 (YA31257) 399 (YA31240)		1) P2418F436 2) P2418F475 (3) P2418F701 (4) 3) PZZ90087	1) PU5LT1179 2) PU5LB0153 3) P3681H205	1) P31134123 x6 2) P32762144 x12 3) P33221328 x12 4) PZZ90009	1) P31134132 x1 2) P31416307 3) P31434163 4) P31434307
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve (2) a) Inner b) Outer
		PVTK612	1) P3142L051 x6 2) P3142A051 x6	a) P3343F002 x6 b) P3343J002 x6	5) Lock, Valve 6) Seal, Valve
					
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug
P4132F043		P2641729	1) PU5MW0092 2) P2485613 x2	1) N/A 2) P41151483 3) P41151484	1) N/A 2) P2666108 (Bayonet Fitting)

(1) Flanged, Semi Finished Liner available, **P3135X041**.
(2) Use Single Valve Spring, 3174P405 for low speed applications, not available from Maxiforce.
(3) To ESN U764751H.
(4) From ESN U764752H.

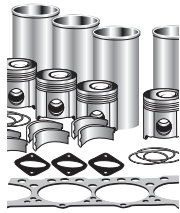
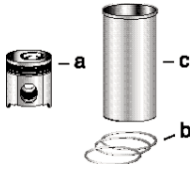
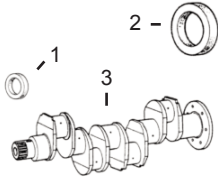
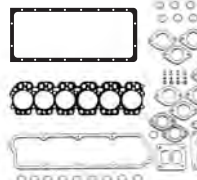
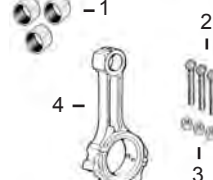
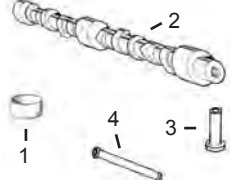
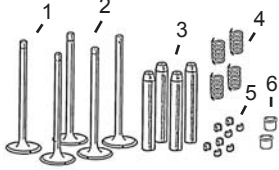
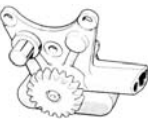
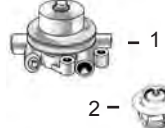
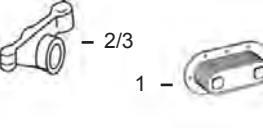
Engine & Equipment Application						
1006.60T TURBOCHARGED 6 Cyl, Lip Seal Bore: 3.9370 in 100.00 mm To ESN 557976X <u>APPLICATIONS:</u> JCB 435 Front Loader (YB50292) MF AGRICULTURAL 3625 (YB31245) PERKINS USA Power Units (YB30127) Power Units (YB30650)						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK245 Consists of: a) PMXF0013 b) P4181A021 c) P3135X042 (3) 6 Per Engine	PU5MB0030 Std.	PU5ME0003 Std.	P31137551/61
		1) POK691		PU5MB0030A .010	PU5ME0003A .010	
		2) PBK691		PU5MB0030B .020	PU5ME0003B .020	
				PU5MB0030C .030	PU5ME0003C .030	
				Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	
		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	
		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Tappet	
				4) Con Rod	4) Push Rod	
		1) P2418F436	1) PU5LT1179	1) P31134131 x6	1) P31134132 x1	
		2) P2418F475	2) PU5LB0153	2) P32762144 x12	2) P31416307	
		3) PZZ90085	3) P3681H205	3) P33221328 x12	3) P31434163	
				4) PZZ90013 (1)	4) P31434307	
			Valve Train Kit	1) Valve, Intake	4) Spring, Valve	5) Lock, Valve
				2) Valve, Exhaust	a) Inner	6) Seal, Valve
				a) Intake	b) Outer	
				b) Exhaust		
		PVTK613	1) P3142L071 x6 (2)	a) P3343F002 x6	a) P31744133 x12	5) P33173108 x24
			2) P3142A051 x6	b) P3343J002 x6	b) P31745122 x12	6) P33817117 x12
		Oil Pump	Lift Pump	1) Water Pump	1) Oil Cooler	1) Cylinder Head
				2) Thermostat	2) Rocker Arm LH	2) Glowplug
					3) Rocker Arm RH	
		P4132F057	P2641729	1) PU5MW0092	1) P2486A992 (4)	1) N/A
				2) P2485613 x2	2) P41151483	2) P2666108
					3) P41151484	(Bayonet Fitting)

(1) Check with Build List.

(2) 45° Angle.

(3) Flanged, Semi Finished Liner available, **P3135X041**.

(4) Applies to YB31245 ONLY.

Engine & Equipment Application					
1006.60T TURBOCHARGED					
					
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set
		2) Basic Engine Kit	PCK275 Consists of:	PU5MB0030 Std.	PU5ME0003 Std.
		1) POK692	a) PMXF0014	PU5MB0030A .010	PU5ME0003A .010
			b) P4181A026	PU5MB0030B .020	PU5ME0003B .020
		2) PBK692	c) P3135X042 (3)	PU5MB0030C .030	PU5ME0003C .030
			6 Per Engine	Set of 7 Pairs	Set of 6 Pairs
					Set of 2 Pairs
					
		1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam
		2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft
		3) Crankshaft Kit	3) Head Gasket	3) Nut, Con Rod	3) Tappet
				4) Con Rod	4) Push Rod
		1) P2418F436	1) PU5LT1179	1) P31134131 x6	1) P31134132 x1
		2) P2418F475 (4)	2) PU5LB0153	2) P32762144 x12	2) P31416307
		P2418F701 (5)	3) P3681H205	3) P33221328 x12	3) P31434163
		3) PZZ90085		4) PZZ90013 (1)	4) P31434307
			Valve Train Kit	1) Valve, Intake	5) Lock, Valve
				2) Valve, Exhaust	6) Seal, Valve
			PVTK614	1) P3142L072 x6 (2)	5) P33173108 x24
				2) P3142A051 x6	6) P33817117 x12
				a) P3343F002 x6	
				b) P3343J002 x6	
				a) P31744133 x12	
				b) P31745122 x12	
					
		Oil Pump	Lift Pump	1) Water Pump	1) Cylinder Head
				2) Thermostat	2) Glowplug
		P4132F057	P2641729	1) PU5MW0092	1) N/A
				2) P2485613	2) P2666108
					(Bayonet Fitting)
				1) P2486A992 (6)	
				2) P41151483	
				3) P41151484	

(1) Check with Build List.

(2) 30° Angle.

(3) Flanged, Semi Finished Liner available, **P3135X041**.

(4) To ESN U764751H.

(5) From ESN U764752H.

(6) Applies to YB31245 ONLY.

Engine & Equipment Application					
1006.60T TURBOCHARGED / INTERCOOLED 6 Cyl, Lip Seal Kits include both rear seals Bore: 3.9370 in 100.00 mm Stroke: 5.00 in 127.00 mm GRADE "L" Piston height: 70.161 mm 2.762 in <u>APPLICATIONS:</u> YE Builds and some YD builds used in Emission Controlled Areas					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	PCK624 Consists of:	PU5MB0030 Std.	PU5ME0003 Std. (6)	P31137551/61
	1) POK696	a) PU5LF0024 b) P4181A026 c) P3135X062 (3)	PU5MB0030A .010 PU5MB0030B .020 PU5MB0030C .030	PU5ME0003A .010 PU5ME0003B .020 PU5ME0003C .030	
	2) PBK696	6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Dowel, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Push Rod	
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2418F436 2) P2418F475 (4) P2418F701 (5) 3) PZZ90085	1) PU5LT1179 2) PU5LB0153 3) P3681H205	1) P3112E005 x6 (1) 2) P32186142 x12 3) P3246A001 x12 4) PZZ90146	1) P31134132 x1 2) P31416307 3) P31434163 4) P31434307	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK614	1) P3142L072 x6 (2) 2) P3142A051 x6	a) P3343F002 x6 b) P3343J002 x6	a) P31744133 x12 b) P31745122 x12	5) P33173108 x24 6) P33817117 x12
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug	
P4132F057	P2641729	1) PU5MW0092 2) P2485613	1) N/A 2) P41151483 3) P41151484	1) N/A 2) P2666108 (Bayonet Fitting)	

(1) Use with Con Rod ZZ90146.

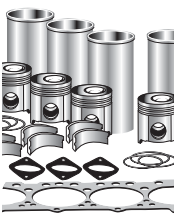
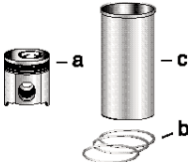
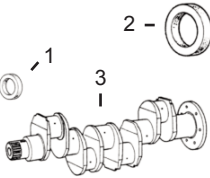
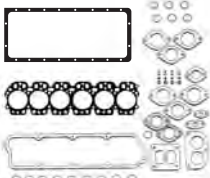
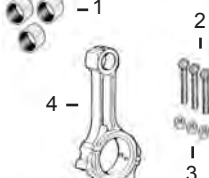
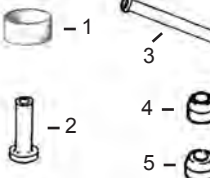
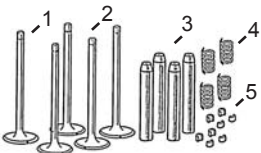
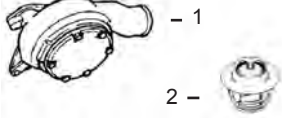
(2) 30° Angle.

(3) Flanged, Semi Finished Liner available, **P3135X063**.

(4) To ESN U764751H.

(5) From ESN U764752H.

(6) Use Con Rod Bearing Set, **PU5ME0025**, from ESN U801518J. For engine kit with these bearings, order **POK693/45NB** or /30NB or PBK693NB and nominate the bearings.

Engine & Equipment Application 1006.60T TURBOCHARGED or NATURALLY ASPIRATED 6 Cyl, Lip Seal Kits include both rear seals Bore: 3.9370 in 100.00 mm						
		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Engine Kit	PCK5762 Consists of: a) PU5LP0057 b) P4181A033 c) P3135X062 (1)	PU5MB0030 Std. PU5MB0030A .010 PU5MB0030B .020 PU5MB0030C .030	PU5ME0003 Std. (5) PU5ME0003A .010 PU5ME0003B .020 PU5ME0003C .030	P31137551/61
		1) POK693/45 POK693/30				
		2) PBK693	6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
ENGINES BUILDS 6.601 YG T6.601 YH CCW6.601 YK CCA6.601 YJ						
APPLICATIONS: Mc CORMICK MTX 110 (YH50918) MTX 125 (YH50919) MTX 140 (YH50920) MTX 155 (YK50921) MTX 170 (YJ51192)		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
		3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
MF AGRICULTURAL 6180 (YH31310)		1) P2418F436 2) P2418F475 (2) P2418F701 (3) 3) PZZ90085 PZZ90229 (7)	1) PU5LT1300 2) PU5LB1301 3) P3681H205	1) P3112A005 x6 2) P32762144 x12 P3212V003 x12 (4) 3) P33221328 x12 4) P4115C314 (6)	1) P31134132 x1 2) P31434163 3) P31434307 4) P2418M505 x6 5) P2418M506 x6	
		Valve Train Kit a) 45° Angle b) 30° Angle	1) Valve, Intake 2) Valve, Exhaust a) 45° Angle b) 30° Angle	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve
		a) PVTK618 b) PVTK619	1a) P3142D041 x6 b) P3142L081 x6 2a) P3142D031 x6 b) P3142D051 x6	a) P3313A012 x6 b) P3318A705 x6	4) P3174P409 x12	5) P3142W004 x24
						
1) Oil Pump 2) Oil Cooler			Lift Pump		1) Water Pump 2) Thermostat	
1) P4132F057 2) P2486A992 P2486A993			P2641729		1) PU5MW0192 2) P2485C036	

(2) To ESN U764751H.

(3) From ESN U764752H.

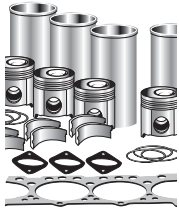
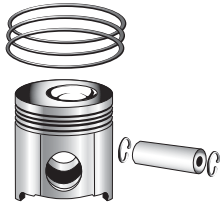
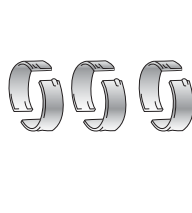
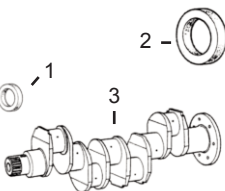
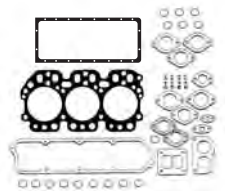
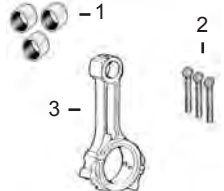
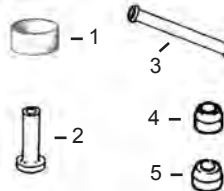
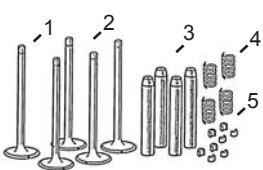
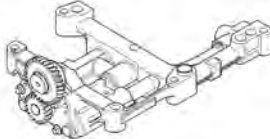
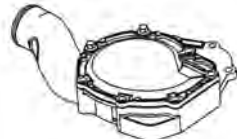
(4) Use with Fractured Spl

(6) Grade J, Color Coded Green.

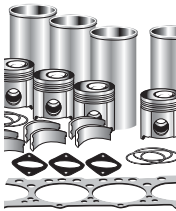
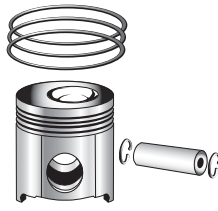
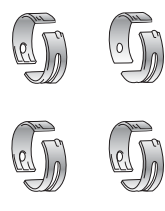
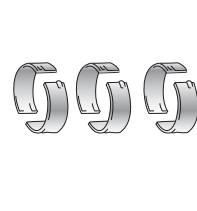
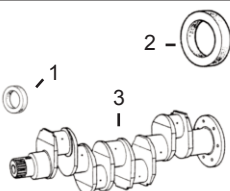
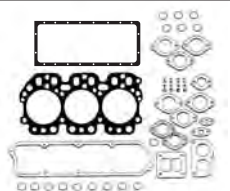
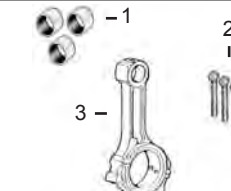
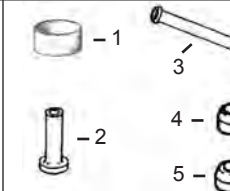
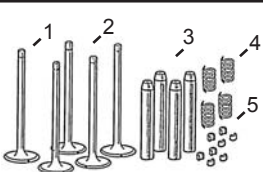
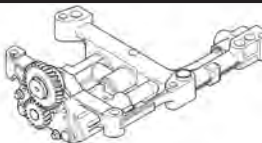
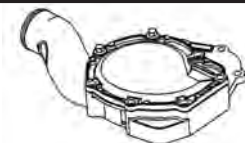
(7) Kit includes Con Rod Bearing Set **PU5ME0025**.

Engine & Equipment Application					
1103C - 33 (DC) 1103B - 33 (DF) 1103A - 33 (DJ) 1103D - 33 (XK) NATURALLY ASPIRATED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 201 in ³ 3.3 Liter APPLICATIONS: MF AGRICULTURAL 410 (DC38077) 431 (DC38027)					
	1) Engine O/H Kit 2) Basic Kit 1) POK320 Std. POK321 0.50 POK322 1.00 2) PBK320 Std. PBK321 0.50 PBK322 1.00	Piston & Ring Kit P4115P011 Std. P4115P012 0.50 mm P4115P013 1.00 mm 3 Per Engine	Main Bearing Set PU5MB0019 Std. PU5MB0019A .010 PU5MB0019B .020 PU5MB0019C .030 Set of 4 Pairs	Con Rod Bearing Set PU5ME0018 Std. PU5ME0018A .010 PU5ME0018B .020 PU5ME0018C .030 Set of 3 Pairs	Thrust Washer Set P31137551/61 Set of 2 Pairs
	* Piston Kit consists of: 1) 1 X PMXFP011 Piston Std, 2) 1 X PMXFP012 Piston 0.50 mm, 3) 1 X PMXFP013 Piston 1.00 mm, 1 X PUPRK0003 Ring Set Std. 1 X PUPRK0003B Ring Set 0.50 mm. 1 X PUPRK0003D Ring Set 1.00 mm.				
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
	1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0379 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 x3 2) P3212V003 x6 3) P4115C314 (2)	1) P3112D071 x1 2) P31434163 3) P31434307 4) P2418M517 x3 5) P2418M519 x3	
	Valve Train Kit PVTK307	1) Valve, Intake 2) Valve, Exhaust 1) P3142H071 x3 2) P3142A151 x3	3) Guide, Valve (Intake & Exhaust) 3) P3313A012 x6	4) Spring, Valve 4) P3174A016 x6	5) Lock, Valve 5) P3142W004 x12
Oil Pump	Water Pump		Water Pump Gasket		
P4132F071 (1) (3) P4132F072 (3)	PU5MW0197		P3682A011		

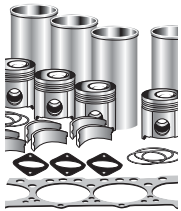
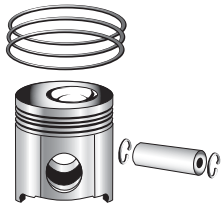
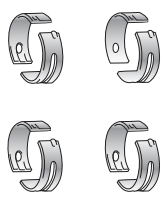
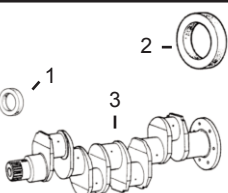
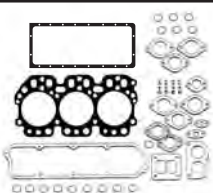
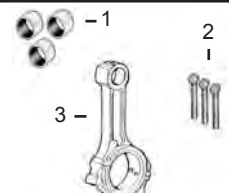
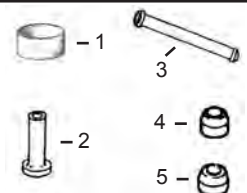
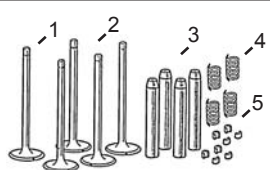
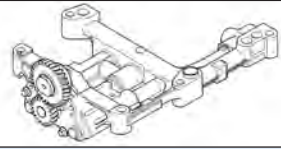
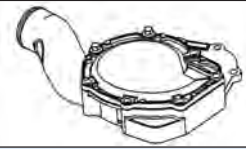
(1) Not to be used on engines with balancer units.
 (2) Grade J, Color Coded Green.
 (3) Check with Build List.

Engine & Equipment Application						
1103C - 33 (DC) 1103D - 33 (XK)						
NATURALLY ASPIRATED		1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Kit	P4115P011 Std.	PU5MB0019 Std.	PU5ME0018 Std.	P31137551/61
		1) POK331 Std. POK332 0.50 POK333 1.00	P4115P012 0.50 mm P4115P013 1.00 mm	PU5MB0019A .010 PU5MB0019B .020 PU5MB0019C .030	PU5ME0018A .010 PU5ME0018B .020 PU5ME0018C .030	
		2) PBK331 Std. PBK332 0.50 PBK333 1.00				
			3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs
		* Piston Kit consists of: 1) 1 X PMXFP011 Piston Std, 1 X PUPRK0003 Ring Set Std. 2) 1 X PMXFP012 Piston 0.50 mm, 1 X PUPRK0003B Ring Set 0.50 mm. 3) 1 X PMXFP013 Piston 1.00 mm, 1 X PUPRK0003D Ring Set 1.00 mm.				
						
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
		1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0380 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 x3 2) P3212V003 x6 3) P4115C314 (2)	1) P3112D071 x1 2) P31434163 3) P31434307 4) P2418M517 x3 5) P2418M519 x3	
			Valve Train Kit PVTK307	1) Valve, Intake 2) Valve, Exhaust 3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve 5) Lock, Valve	
			1) P3142H071 x3 2) P3142A151 x3	3) P3313A012 x6	4) P3174A016 x6 5) P3142W004 x12	
						
		Oil Pump	Water Pump	Water Pump Gasket		
		P4132F071 (1) (3) P4132F072 (3)	PU5MW0197	P3682A011		

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

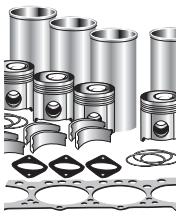
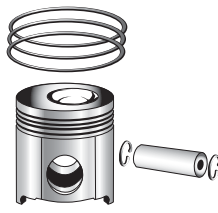
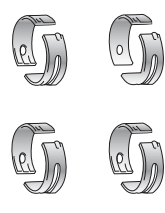
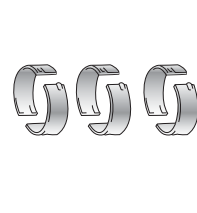
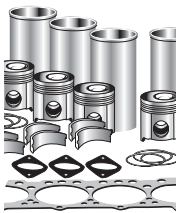
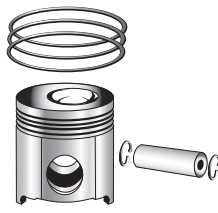
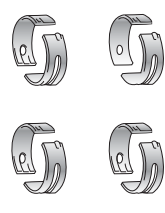
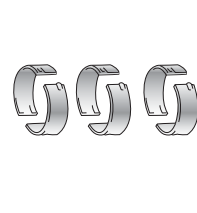
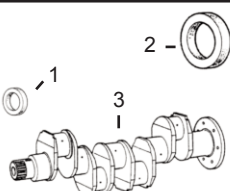
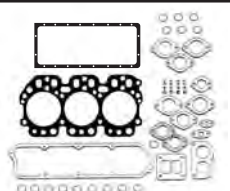
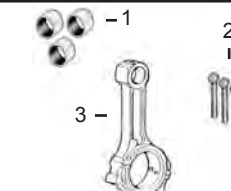
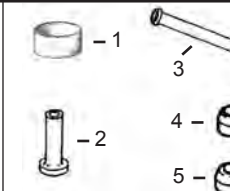
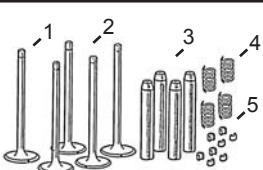
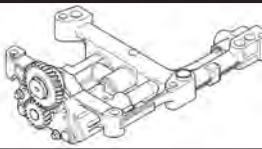
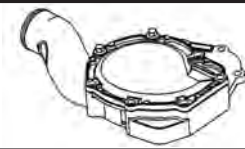
Engine & Equipment Application					
1103C - 33T (DD)					
TURBOCHARGED	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	P4115P015 Std.	PU5MB0019 Std.	PU5ME0018 Std.	P31137551/61
	1) POK334 Std. POK335 0.50 POK336 1.00	P4115P016 0.50 mm P4115P017 1.00 mm	PU5MB0019A .010 PU5MB0019B .020 PU5MB0019C .030	PU5ME0018A .010 PU5ME0018B .020 PU5ME0018C .030	
	2) PBK334 Std. PBK335 0.50 PBK336 1.00				
	3 Per Engine				
	* Piston Kit consists of:				
	1) 1 X PMXFP015 Piston Std, 1 X PUPRK0002 Ring Set Std. 2) 1 X PMXFP016 Piston 0.50 mm, 1 X PUPRK0002B Ring Set 0.50 mm. 3) 1 X PMXFP017 Piston 1.00 mm, 1 X PUPRK0002D Ring Set 1.00 mm.				
					
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
	1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0380 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 x3 2) P3212V003 x6 3) P4115C314 (2)	1) P3112D071 x1 2) P31434163 3) P31434307 4) P2418M517 x3 5) P2418M519 x3	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK307	1) P3142H071 x3 2) P3142A151 x3	3) P3313A012 x6	4) P3174A016 x6	5) P3142W004 x12
					
Oil Pump	Water Pump		Water Pump Gasket		
P4132F071 (1)	PU5MW0197		P3682A011		

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

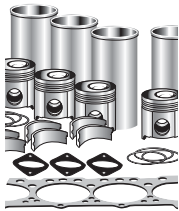
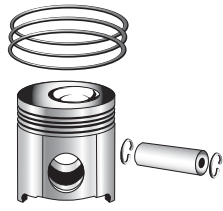
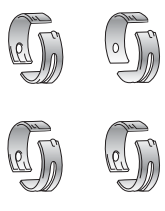
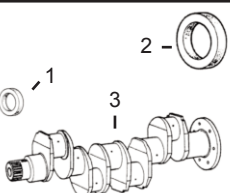
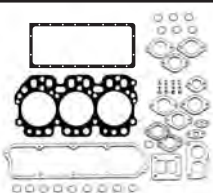
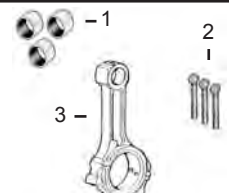
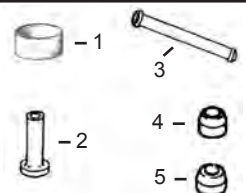
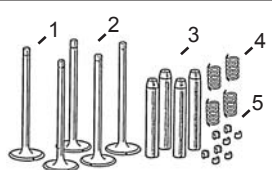
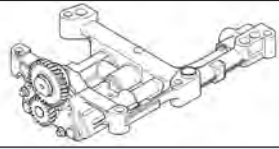
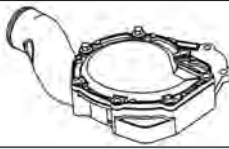
Engine & Equipment Application						
1103C - 33T (DD) 1103A - 33T (DK) TURBOCHARGED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 201 in³ 3.3 Liter APPLICATIONS: Genset (DK51280)						
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
	2) Basic Kit	P4115P025 Std.	PU5MB0019 Std.	PU5ME0018 Std.	P31137551/61	
	1) POK340 Std. POK341 0.50 POK342 1.00	P4115P026 0.50 mm P4115P027 1.00 mm	PU5MB0019A .010	PU5ME0018A .010		
			PU5MB0019B .020	PU5ME0018B .020		
			PU5MB0019C .030	PU5ME0018C .030		
	2) PBK340 Std. PBK341 0.50 PBK342 1.00	3 Per Engine	Set of 4 Pairs	Set of 3 Pairs	Set of 2 Pairs	
	* Piston Kit consists of:					
	1) 1 X PMXFP025 Piston Std, 1 X PUPRK0002 Ring Set Std. 2) 1 X PMXFP026 Piston 0.50 mm, 1 X PUPRK0002B Ring Set 0.50 mm. 3) 1 X PMXFP027 Piston 1.00 mm, 1 X PUPRK0002D Ring Set 1.00 mm.					
						
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve		
	1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0379 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 x3 2) P3212V003 x6 3) P4115C314 (2)	1) P3112D071 x1 2) P31434163 3) P31434307 4) P2418M517 x3 5) P2418M519 x3		
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
		PVTK307	1) P3142H071 x3 2) P3142A151 x3	3) P3313A012 x6	4) P3174A016 x6	5) P3142W004 x12
						
Oil Pump		Water Pump		Water Pump Gasket		
P4132F071 (1)		PU5MW0197		P3682A011		

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

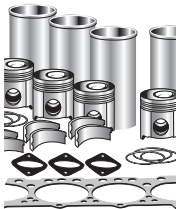
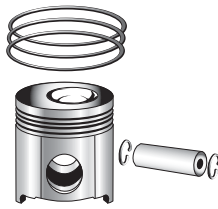
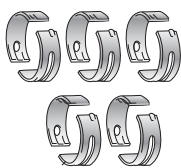
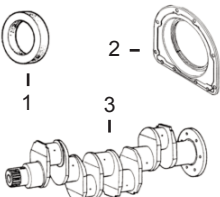
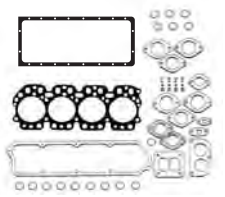
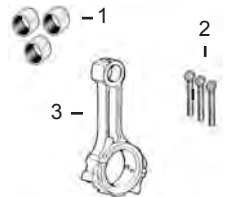
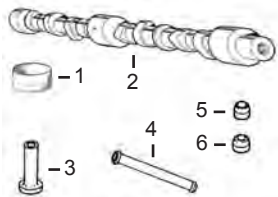
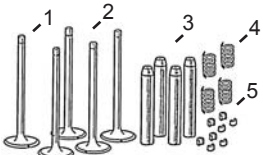
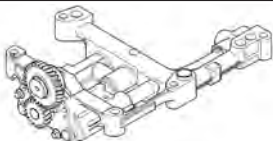
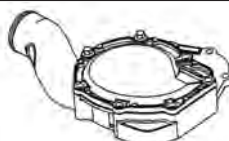
Engine & Equipment Application						
1103D - 33T (XL)						
1103D - 33TA (XM)						
TURBOCHARGED						
Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 201 in ³ 3.3 Liter						
APPLICATIONS:		1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Kit	PU5PR0064 Std.	PU5MB0037 Std.	PU5ME0033 Std.	P31137551/61
		1) POK343 Std. POK344 0.50 POK345 1.00	PU5PR0064B 0.50 PU5PR0064D 1.00 3 Per Engine	PU5MB0037A .010 PU5MB0037B .020 PU5MB0037C .030 Set of 4 Pairs	PU5ME0033A .010 PU5ME0033B .020 PU5ME0033C .030 Set of 3 Pairs	
		2) PBK343 Std. PBK344 0.50 PBK345 1.00				
		* Piston Kit consists of: 1) 1 X PMXFP064 Piston Std, 1 X PUPRK0005 Ring Set Std. 2) 1 X PMXFP064B Piston 0.50 mm, 1 X PUPRK0005B Ring Set 0.50 mm. 3) 1 X PMXFP064D Piston 1.00 mm, 1 X PUPRK0005D Ring Set 1.00 mm.				
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
		3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
		1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0379 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 x3 2) P3212V003 x6 3) P4115C314 (2)	1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x3 5) P2418M519 x3	
			Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve
PVTK310	1) P3142H111 x3 2) P3142A171 x3		3) P3313A012 x6	4) P3174A031 x6	5) P2714A002 x12	
						
Oil Pump		Water Pump		Water Pump Gasket		
P4132F071 (1)		PU5MW0208		P3682A011		

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

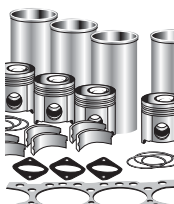
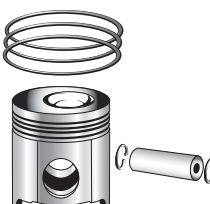
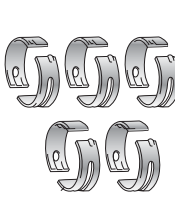
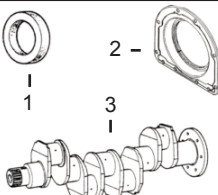
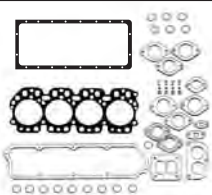
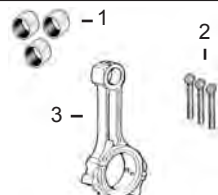
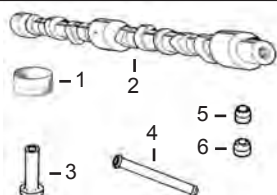
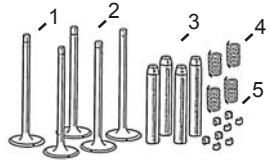
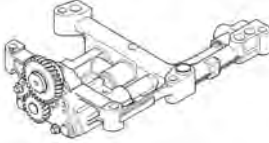
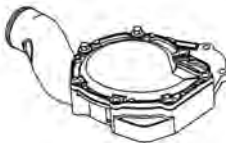
Engine & Equipment Application						
1103D - 33T (XL) 1103D - 33TA (XM)						
TURBOCHARGED	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
	2) Basic Kit	PU5PR0064 Std.	PU5MB0037 Std.	PU5ME0033 Std.	P31137551/61	
	1) POK346 Std. POK347 0.50 POK348 1.00	PU5PR0064B 0.50 PU5PR0064D 1.00 3 Per Engine	PU5MB0037A .010 PU5MB0037B .020 PU5MB0037C .030 Set of 4 Pairs	PU5ME0033A .010 PU5ME0033B .020 PU5ME0033C .030 Set of 3 Pairs	Set of 2 Pairs	
	2) PBK346 Std. PBK347 0.50 PBK348 1.00					
	* Piston Kit consists of: 1) 1 X PMXFP064 Piston Std, 2) 1 X PMXFP064B Piston 0.50 mm, 3) 1 X PMXFP064D Piston 1.00 mm, 1 X PUPRK0005 Ring Set Std. 1 X PUPRK0005B Ring Set 0.50 mm. 1 X PUPRK0005D Ring Set 1.00 mm.					
APPLICATIONS:						
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve		
	1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0380 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 x3 2) P3212V003 x6 3) P4115C314 (2)	1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x3 5) P2418M519 x3		
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
		PVTK310	1) P3142H111 x3 2) P3142A171 x3	3) P3313A012 x6	4) P3174A031 x6	5) P2714A002 x12
						
Oil Pump		Water Pump		Water Pump Gasket		
P4132F071 (1)		PU5MW0208		P3682A011		

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

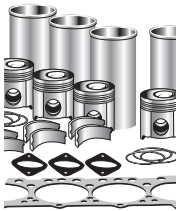
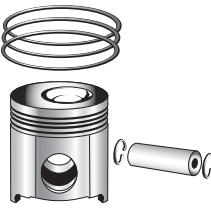
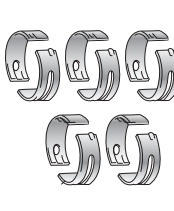
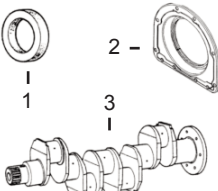
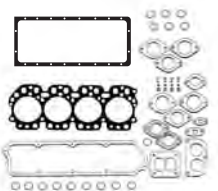
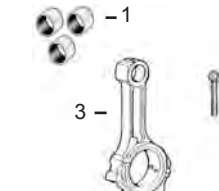
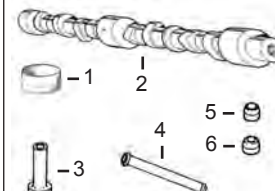
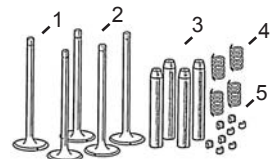
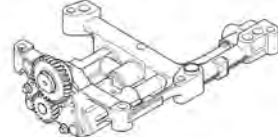
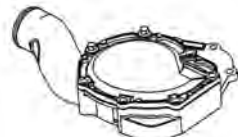
Engine & Equipment Application													
1104C - 44 (RE)		1) Engine O/H Kit		Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set			
1104C - E44 (RF)		2) Basic Kit		P4115P011 Std.		PU5MB0018 Std.		PU5ME0013 Std.		P31137551/61			
1104A - 44 (RR)		1) POK412 Std. POK413 0.50 POK414 1.00		P4115P012 0.50 mm P4115P013 1.00 mm		PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030		PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030		Set of 2 Pairs			
NATURALLY ASPIRATED		2) PBK412 Std. PBK413 0.50 PBK414 1.00		4 Per Engine		Set of 5 Pairs		Set of 4 Pairs					
Bore: 4.133 in 105.00 mm		* Piston Kit consists of: 1) 1 X PMXFP011 Piston Std, 1 X PUPRK0003 Ring Set Std. 2) 1 X PMXFP012 Piston 0.50 mm, 1 X PUPRK0003B Ring Set 0.50 mm. 3) 1 X PMXFP013 Piston 1.00 mm, 1 X PUPRK0003D Ring Set 1.00 mm.											
Stroke: 5.00 in 127.00 mm													
Displacement: 269 in ³ 4.4 Liter		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod		1) Bushing, Cam		2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve			
APPLICATIONS:		3) Crankshaft Kit		3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket		3) Con Rod Kit							
INDUSTRIAL		1) P2418F436 2) P2418F704 3) PZZ90239		1) PU5LT0357 2) PU5LB0382 3) P3681E051 4) P3681A055 5) P3681K037		1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)		1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4					
BACKHOE LOADER (RE38238)													
GENSET (RE51215)													
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve			
		PVTK425		1) P3142H071 x4 2) P3142A151 x4		3) P3313A012 x8		4) P3174A016 x8		5) P3142W004 x16			
													
Oil Pump				Water Pump				Water Pump Gasket					
P4132F071 (1)				PU5MW0194				P3682A011					

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green. To ESN U491476T.

Engine & Equipment Application					
1104C - 44 (RE)					
1104C - E44 (RF)	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
1104A - 44 (RR)	2) Basic Kit	P4115P011 Std.	PU5MB0018 Std.	PU5ME0013 Std.	P31137551/61
NATURALLY ASPIRATED	1) POK415 Std. POK416 0.50 POK417 1.00	P4115P012 0.50 mm P4115P013 1.00 mm	PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030	PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030	
	2) PBK415 Std. PBK416 0.50 PBK417 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	* Piston Kit consists of:				
	1) 1 X PMXFP011 Piston Std, 2) 1 X PMXFP012 Piston 0.50 mm, 3) 1 X PMXFP013 Piston 1.00 mm,		1 X PUPRK0003 Ring Set Std. 1 X PUPRK0003B Ring Set 0.50 mm. 1 X PUPRK0003D Ring Set 1.00 mm.		
Bore: 4.133 in 105.00 mm					
Stroke: 5.00 in 127.00 mm	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
Displacement: 269 in ³ 4.4 Liter	3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve	
APPLICATIONS:	1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0384 3) P3681E051 4) P3681A055 5) P3681K036	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4	
TRACTORS (RE38396)					
INDUSTRIAL (RE38082/RE38108)					
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK425	1) P3142H071 x4 2) P3142A151 x4	3) P3313A012 x8	4) P3174A016 x8	5) P3142W004 x16
	Oil Pump			Water Pump	
					
	P4132F071 (1)		PU5MW0194		P3682A011

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

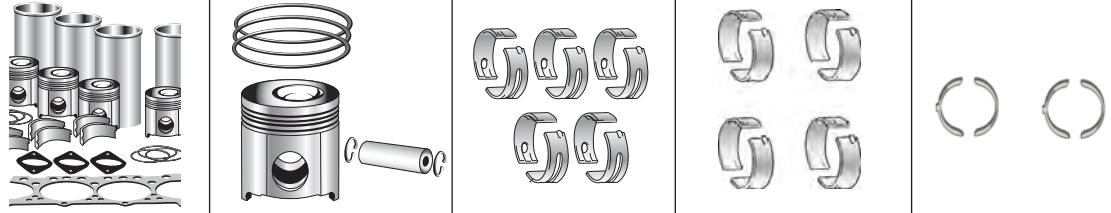
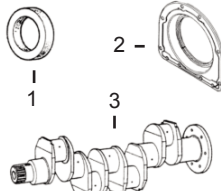
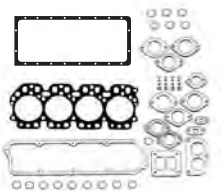
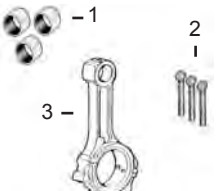
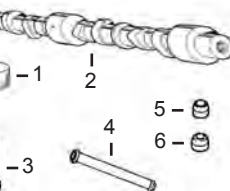
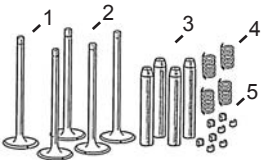
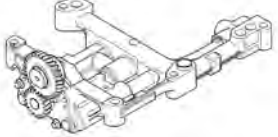
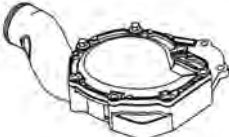
Engine & Equipment Application											
1104C - 44 (RE)		1) Engine O/H Kit		Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
1104C - E44 (RF)		2) Basic Kit		P4115P011 Std.		PU5MB0018 Std.		PU5ME0013 Std.		P31137551/61	
1104A - 44 (RR)		1) POK480 Std. POK481 0.50 POK482 1.00		P4115P012 0.50 mm P4115P013 1.00 mm		PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030		PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030			
NATURALLY ASPIRATED		2) PBK480 Std. PBK481 0.50 PBK482 1.00		4 Per Engine		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
Bore: 4.133 in 105.00 mm		* Piston Kit consists of:									
Stroke: 5.00 in 127.00 mm		1) 1 X PMXFP011 Piston Std, 1 X PUPRK0003 Ring Set Std. 2) 1 X PMXFP012 Piston 0.50 mm, 1 X PUPRK0003B Ring Set 0.50 mm. 3) 1 X PMXFP013 Piston 1.00 mm, 1 X PUPRK0003D Ring Set 1.00 mm.									
Displacement: 269 in ³ 4.4 Liter											
APPLICATIONS:		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod		1) Bushing, Cam			
AGRICULTURAL		3) Crankshaft Kit		3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket		3) Con Rod Kit		2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve			
AGCO		1) P2418F436 2) P2418F704 3) PZZ90239		1) PU5LT0357 2) PU5LB0383 3) P3681E051 4) P3681A055 5) P3681K036		1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)		1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4			
3435S/F/V (RE37990) 3435GE/GEV (RE37990) 3425C (RE38157) 471 (RE37827) 481 (RE37830) 5425 (RE37873/RE37917) 5435 (RE37831/RE37919)											
JCB											
Telehandler (RE51141)											
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve	
		PVTK425		1) P3142H071 x4 2) P3142A151 x4		3) P3313A012 x8		4) P3174A016 x8		5) P3142W004 x16	
											
Oil Pump				Water Pump				Water Pump Gasket			
P4132F071 (1)				PU5MW0194				P3682A011			

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

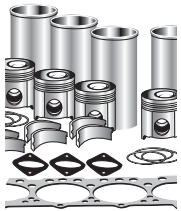
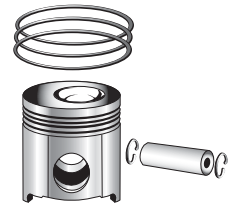
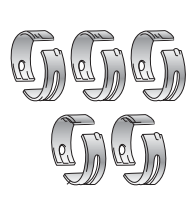
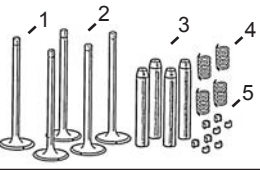
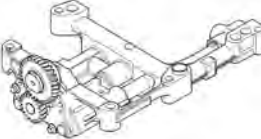
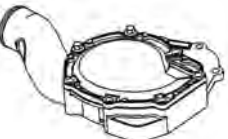
Engine & Equipment Application					
1104C - 44 (RE) 1104C - E44 (RF) 1104A - 44 (RR) NATURALLY ASPIRATED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter <u>APPLICATIONS:</u> INDUSTRIAL GEHL Skid Steer Loader (RE37911) HYSTER Forklift (RE38037)					
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	P4115P011 Std.	PU5MB0018 Std.	PU5ME0013 Std.	P31137551/61
	1) POK483 Std. POK484 0.50 POK485 1.00	P4115P012 0.50 mm P4115P013 1.00 mm	PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030	PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030	
	2) PBK483 Std. PBK484 0.50 PBK485 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	* Piston Kit consists of: 1) 1 X PMXFP011 Piston Std, 1 X PUPRK0003 Ring Set Std. 2) 1 X PMXFP012 Piston 0.50 mm, 1 X PUPRK0003B Ring Set 0.50 mm. 3) 1 X PMXFP013 Piston 1.00 mm, 1 X PUPRK0003D Ring Set 1.00 mm.				
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve	
	3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit		
	1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0381 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK425	1) P3142H071 x4 2) P3142A151 x4	3) P3313A012 x8	4) P3174A016 x8	5) P3142W004 x16
Oil Pump		Water Pump		Water Pump Gasket	
P4132F071 (1)		PU5MW0194		P3682A011	

(1) Not to be used on engines with balancer units.

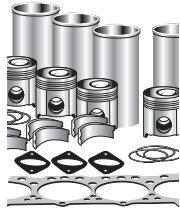
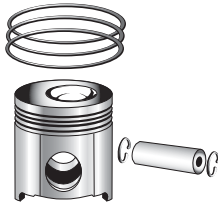
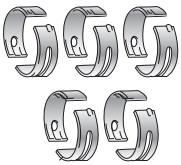
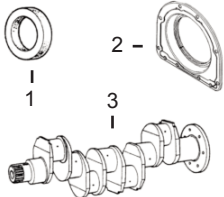
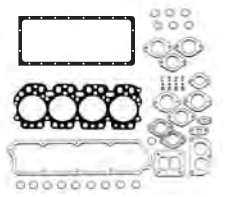
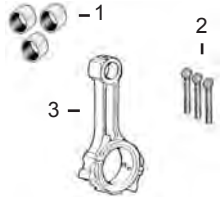
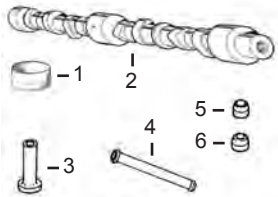
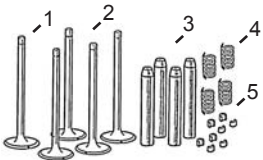
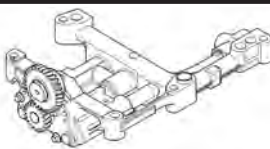
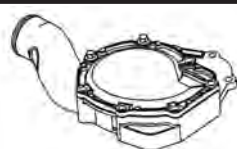
(2) Grade J, Color Coded Green.

Engine & Equipment Application					
1104C - 44T (RG)					
1104C - E44T (RH)	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
1104C - E44TA (RK)	2) Basic Kit	P4115P015 Std.	PU5MB0018 Std.	PU5ME0013 Std.	P31137551/61
1104A - 44T (RS)	1) POK418 Std. POK419 0.50 POK420 1.00	P4115P016 0.50 mm P4115P017 1.00 mm	PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030	PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030	
1104A - 44TA (RT)	2) PBK418 Std. PBK419 0.50 PBK420 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
TURBOCHARGED	* Piston Kit consists of: 1) 1 X PMXFP015 Piston Std, 1 X PUPRK0002 Ring Set Std. 2) 1 X PMXFP016 Piston 0.50 mm, 1 X PUPRK0002B Ring Set 0.50 mm. 3) 1 X PMXFP017 Piston 1.00 mm, 1 X PUPRK0002D Ring Set 1.00 mm.				
Bore: 4.133 in 105.00 mm					
Stroke: 5.00 in 127.00 mm	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
Displacement: 269 in ³ 4.4 Liter	3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve	
APPLICATIONS:					
Telehandler (RG37985) Bobcat V723 Forklift (RG) Genset (RG51247)	1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0382 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4	
PERKINS SABRE 44TW2GM (RJ30890)					
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK425	1) P3142H071 x4 2) P3142A151 x4	3) P3313A012 x8	4) P3174A016 x8	5) P3142W004 x16
	Oil Pump		Water Pump		Water Pump Gasket
	P4132F071 (1)		PU5MW0194		P3682A011

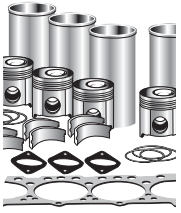
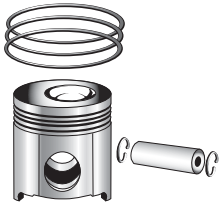
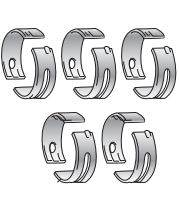
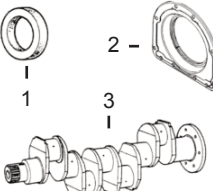
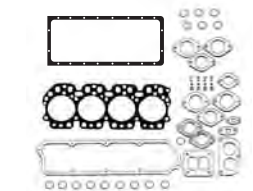
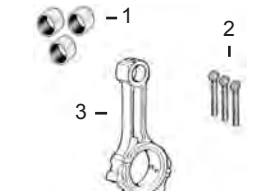
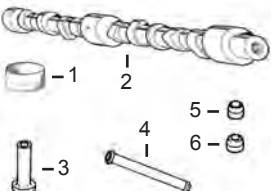
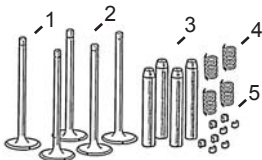
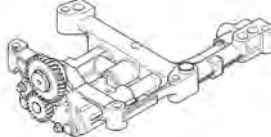
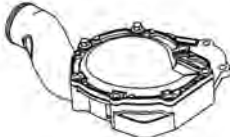
(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

Engine & Equipment Application											
1104C - 44T (RG)		1) Engine O/H Kit		Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
1104C - 44TA (RJ)		2) Basic Kit		P4115P015 Std.		PU5MB0018 Std.		PU5ME0013 Std.		P31137551/61	
1104C - E44TA (RK)		1) POK421 Std. POK422 0.50 POK423 1.00		P4115P016 0.50 mm P4115P017 1.00 mm		PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030		PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030			
		2) PBK421 Std. PBK422 0.50 PBK423 1.00									
TURBOCHARGED											
Bore: 4.133 in 105.00 mm											
Stroke: 5.00 in 127.00 mm											
Displacement: 269 in ³ 4.4 Liter											
APPLICATIONS:											
		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod		1) Bushing, Cam			
		3) Crankshaft Kit		3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket		3) Con Rod Kit		2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve			
Telehandler (RG38084)		1) P2418F436 2) P2418F704 3) PZZ90239		1) PU5LT0357 2) PU5LB0384 3) P3681E051 4) P3681A055 5) P3681K036		1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)		1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4			
Tractors (RG38397)											
JCB Telehandler (RJ51136)											
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve	
		PVTK425		1) P3142H071 x4 2) P3142A151 x4		3) P3313A012 x8		4) P3174A016 x8		5) P3142W004 x16	
											
Oil Pump		Water Pump		Water Pump Gasket							
P4132F071 (1)		PU5MW0194		P3682A011							

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

Engine & Equipment Application					
1104A - 44T (RS) TURBOCHARGED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter APPLICATIONS: GENSETS	    				
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	P4115P025 Std.	PU5MB0018 Std.	PU5ME0013 Std.	P31137551/61
	1) POK424 Std. POK425 0.50 POK426 1.00	P4115P026 0.50 mm P4115P027 1.00 mm 4 Per Engine	PU5MB0018A .010	PU5ME0013A .010	
			PU5MB0018B .020	PU5ME0013B .020	
			PU5MB0018C .030	PU5ME0013C .030	
	2) PBK424 Std. PBK425 0.50 PBK426 1.00		Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	* Piston Kit consists of: 1) 1 X PMXFP025 Piston Std, 1 X PUPRK0002 Ring Set Std. 2) 1 X PMXFP026 Piston 0.50 mm, 1 X PUPRK0002B Ring Set 0.50 mm. 3) 1 X PMXFP027 Piston 1.00 mm, 1 X PUPRK0002D Ring Set 1.00 mm.				
	   				
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve	
	1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0381 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK425	1) P3142H071 x4 2) P3142A151 x4	3) P3313A012 x8	4) P3174A016 x8	5) P3142W004 x16
					
Oil Pump		Water Pump		Water Pump Gasket	
P4132F071 (1)		PU5MW0194		P3682A011	

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

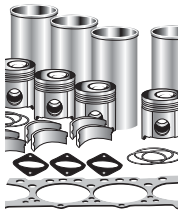
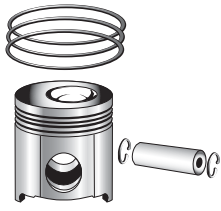
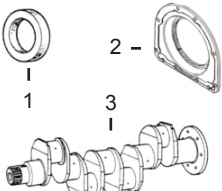
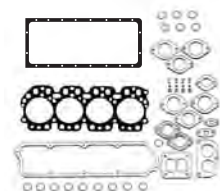
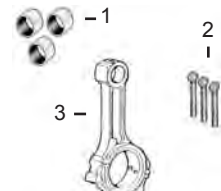
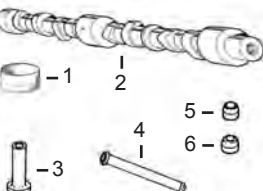
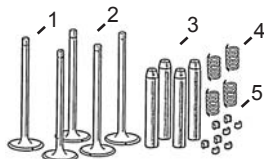
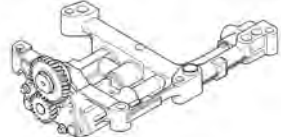
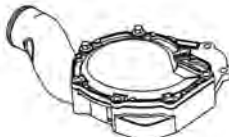
Engine & Equipment Application					
1104A - 44T (RS) TURBOCHARGED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter					
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	P4115P025 Std.	PU5MB0018 Std.	PU5ME0013 Std.	P31137551/61
	1) POK427 Std. POK428 0.50 POK429 1.00	P4115P026 0.50 mm P4115P027 1.00 mm	PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030	PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030	
	2) PBK427 Std. PBK428 0.50 PBK429 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
APPLICATIONS: GENSETS	* Piston Kit consists of: 1) 1 X PMXFP025 Piston Std, 1 X PUPRK0002 Ring Set Std. 2) 1 X PMXFP026 Piston 0.50 mm, 1 X PUPRK0002B Ring Set 0.50 mm. 3) 1 X PMXFP027 Piston 1.00 mm, 1 X PUPRK0002D Ring Set 1.00 mm.				
					
	1) Front Seal	1) Top Gasket Set	1) Bush, Con Rod	1) Bushing, Cam	
	2) Rear Seal	2) Bottom Gasket	2) Bolt, Con Rod	2) Camshaft	
	3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve	
	1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0382 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 x4 6) P2418M519 x4	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK425	1) P3142H071 x4 2) P3142A151 x4	3) P3313A012 x8	4) P3174A016 x8	5) P3142W004 x16
					
Oil Pump		Water Pump		Water Pump Gasket	
P4132F071 (1)		PU5MW0194		P3682A011	

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

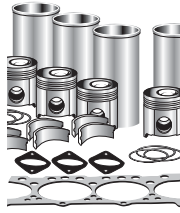
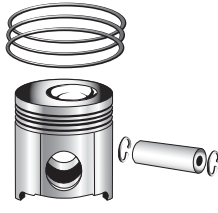
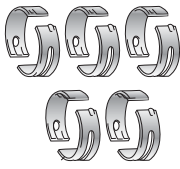
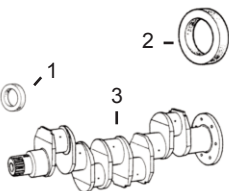
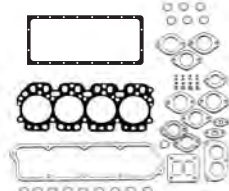
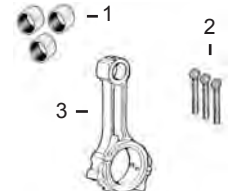
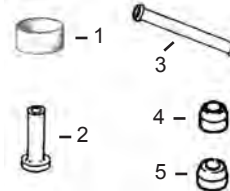
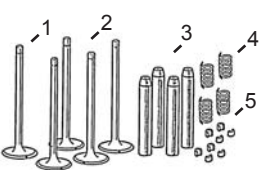
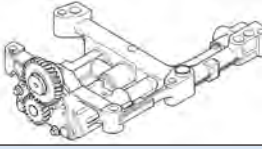
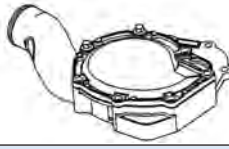
Engine & Equipment Application					
1104C - 44T (RG)					
1104C - E44T (RH)					
TURBOCHARGED					
Bore: 4.133 in 105.00 mm					
Stroke: 5.00 in 127.00 mm					
Displacement: 269 in ³ 4.4 Liter					
APPLICATIONS:					
AGRICULTURAL					
AGCO					
3455/F/GE/GEV (RG37989)					
3455S/F/GE/GEV (RG37991)					
491 (RG37828)					
492 (RG37829/RG38179)					
5445/6445 (RG37832/RG37915)					
5445/6445 (RG38120/RG38121)					
5435T (RG38401/RG38402)					
5460 (RG37833/RG51400)					
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	P4115P015 Std.	PU5MB0018 Std.	PU5ME0013 Std.	P31137551/61
	1) POK486 Std. POK487 0.50 POK488 1.00	P4115P016 0.50 mm P4115P017 1.00 mm	PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030	PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030	
	2) PBK486 Std. PBK487 0.50 PBK488 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	* Piston Kit consists of:				
	1) 1 X PMXFP015 Piston Std, 1 X PUPRK0002 Ring Set Std. 2) 1 X PMXFP016 Piston 0.50 mm, 1 X PUPRK0002B Ring Set 0.50 mm. 3) 1 X PMXFP017 Piston 1.00 mm, 1 X PUPRK0002D Ring Set 1.00 mm.				

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

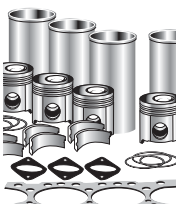
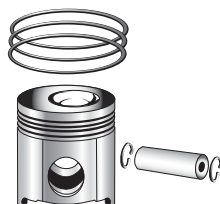
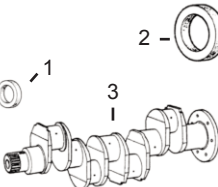
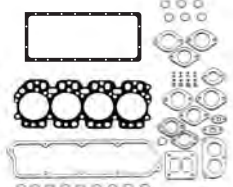
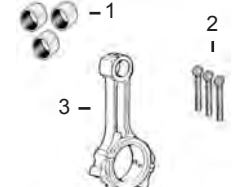
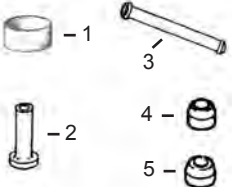
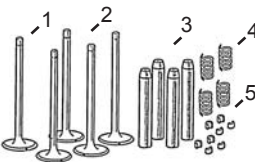
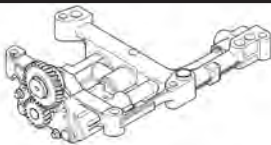
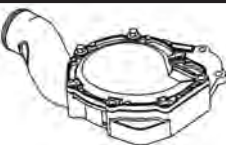
Engine & Equipment Application											
1104C - 44T (RG)											
1104C - E44T (RH)											
TURBOCHARGED		1) Engine O/H Kit		Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Kit		P4115P015 Std.		PU5MB0018 Std.		PU5ME0013 Std.		P31137551/61	
		1) POK491 Std. POK492 0.50 POK493 1.00		P4115P016 0.50 mm P4115P017 1.00 mm		PU5MB0018A .010 PU5MB0018B .020 PU5MB0018C .030		PU5ME0013A .010 PU5ME0013B .020 PU5ME0013C .030			
		2) PBK491 Std. PBK492 0.50 PBK493 1.00		4 Per Engine		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
Bore: 4.133 in 105.00 mm											
Stroke: 5.00 in 127.00 mm											
Displacement: 269 in ³ 4.4 Liter											
* Piston Kit consists of:											
		1) 1 X PMXFP015 Piston Std,		1 X PUPRK0002 Ring Set Std.							
		2) 1 X PMXFP016 Piston 0.50 mm,		1 X PUPRK0002B Ring Set 0.50 mm.							
		3) 1 X PMXFP017 Piston 1.00 mm,		1 X PUPRK0002D Ring Set 1.00 mm.							
											
1) Front Seal		1) Top Gasket Set		1) Bush, Con Rod		1) Bushing, Cam					
2) Rear Seal		2) Bottom Gasket		2) Bolt, Con Rod		2) Camshaft					
3) Crankshaft Kit		3) Head Gasket		3) Con Rod Kit		3) Tappet					
		4) Valve Cover Gasket				4) Pushrod					
		5) Oil Pan Gasket				5) Seal, Exhaust Valve					
						6) Seal, Intake Valve					
1) P2418F436		1) PU5LT0357		1) P3112A005 x4		1) P3112D071 x1					
2) P2418F704		2) PU5LB0381		2) P3212V003 x8		2) P3141D211					
3) PZZ90239		3) P3681E051		3) P4115C314 (2)		3) P31434163					
		4) P3681A055				4) P31434307					
		5) P3681K037				5) P2418M517 x4					
						6) P2418M519 x4					
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve	
		PVTK425		1) P3142H071 x4 2) P3142A151 x4		3) P3313A012 x8		4) P3174A016 x8		5) P3142W004 x16	
											
Oil Pump		Water Pump		Water Pump Gasket							
P4132F071 (1)		PU5MW0194		P3682A011							

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

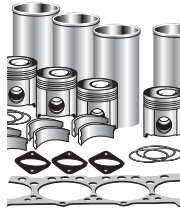
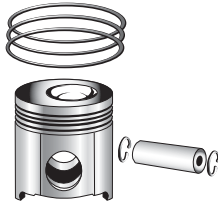
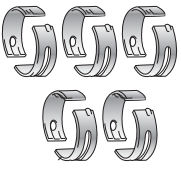
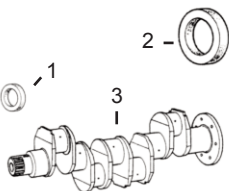
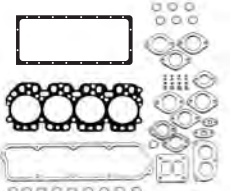
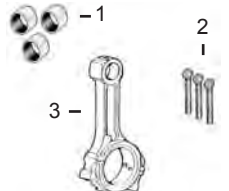
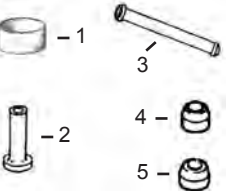
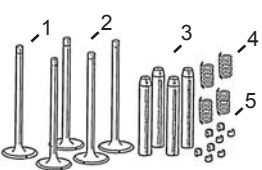
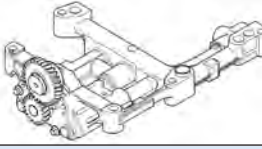
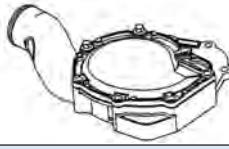
Engine & Equipment Application						
1104D - 44 (NK) NATURALLY ASPIRATED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter <u>APPLICATIONS:</u> AG Tractors Backhoe Loaders Forklifts Telehandlers						
		1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Kit	PU5PR0063 Std.	PU5MB0033 Std.	PU5ME0034 Std.	P31137551/61
		1) POK500 Std. POK501 0.50 POK502 1.00	PU5PR0063B 0.50 PU5PR0063D 1.00	PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030	PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030	
		2) PBK500 Std. PBK501 0.50 PBK502 1.00				
			4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
		* Piston Kit consists of: 1) 1 X PMXFP063 Piston Std, 1 X PUPRK0003 Ring Set Std. 2) 1 X PMXFP063B Piston 0.50 mm, 1 X PUPRK0003B Ring Set 0.50 mm. 3) 1 X PMXFP063D Piston 1.00 mm, 1 X PUPRK0003D Ring Set 1.00 mm.				
						
		1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
		3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
		1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0381 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4	
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
		PVTK426	1) P3142H101 x4 2) P3142A171 x4	3) P3313A012 x8	4) P3174A031 x8	5) P2714A002 x16
						
Oil Pump		Water Pump		Water Pump Gasket		
P4132F073 (1)		PU5MW0208		P3682A011		

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

Engine & Equipment Application					
1104D - 44 (NK)					
NATURALLY ASPIRATED					
Bore: 4.133 in 105.00 mm					
Stroke: 5.00 in 127.00 mm					
Displacement: 269 in³ 4.4 Liter					
APPLICATIONS:					
AG Tractors Backhoe Loaders Forklifts Telehandlers					
    					
1) Engine O/H Kit Piston & Ring Kit Main Bearing Set Con Rod Bearing Set Thrust Washer Set					
2) Basic Kit PU5PR0063 Std. PU5MB0033 Std. PU5ME0034 Std. P31137551/61					
1) POK503 Std. POK504 0.50 POK505 1.00 PU5PR0063B 0.50 PU5PR0063D 1.00 PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030 PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030					
2) PBK503 Std. PBK504 0.50 PBK505 1.00 4 Per Engine Set of 5 Pairs Set of 4 Pairs Set of 2 Pairs					
* Piston Kit consists of: 1) 1 X PMXFP063 Piston Std, 2) 1 X PMXFP063B Piston 0.50 mm, 3) 1 X PMXFP063D Piston 1.00 mm, 1 X PUPRK0003 Ring Set Std. 1 X PUPRK0003B Ring Set 0.50 mm. 1 X PUPRK0003D Ring Set 1.00 mm.					
   					
1) Front Seal 2) Rear Seal 3) Crankshaft Kit 1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket 1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit 1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve					
1) P2418F436 2) P2418F704 3) PZZ90239 1) PU5LT0357 2) PU5LB0382 3) P3681E051 4) P3681A055 5) P3681K037 1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2) 1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4					
 Valve Train Kit 1) Valve, Intake 2) Valve, Exhaust 3) Guide, Valve (Intake & Exhaust) 4) Spring, Valve 5) Lock, Valve					
PVTK426 1) P3142H101 x4 2) P3142A171 x4 3) P3313A012 x8 4) P3174A031 x8 5) P2714A002 x16					
  					
Oil Pump Water Pump Water Pump Gasket					
P4132F073 (1) PU5MW0208 P3682A011					

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

Engine & Equipment Application					
1104D - 44 (NK) NATURALLY ASPIRATED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter <u>APPLICATIONS:</u> AG Tractors Backhoe Loaders Forklifts Telehandlers	    				
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	PU5PR0063 Std.	PU5MB0033 Std.	PU5ME0034 Std.	P31137551/61
	1) POK506 Std. POK507 0.50 POK508 1.00	PU5PR0063B 0.50 PU5PR0063D 1.00	PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030	PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030	
	2) PBK506 Std. PBK507 0.50 PBK508 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	* Piston Kit consists of: 1) 1 X PMXFP063 Piston Std, 1 X PUPRK0003 Ring Set Std. 2) 1 X PMXFP063B Piston 0.50 mm, 1 X PUPRK0003B Ring Set 0.50 mm. 3) 1 X PMXFP063D Piston 1.00 mm, 1 X PUPRK0003D Ring Set 1.00 mm.				
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
	3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
	1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0383 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 2) P3212V003 x8 3) P4115C314 (2)	1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
	PVTK426	1) P3142H101 x4 2) P3142A171 x4	3) P3313A012 x8	4) P3174A031 x8	5) P2714A002 x16
					
Oil Pump		Water Pump		Water Pump Gasket	
P4132F073 (1)		PU5MW0208		P3682A011	

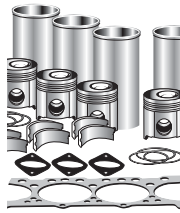
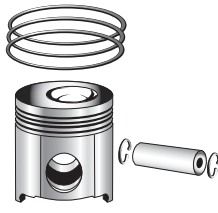
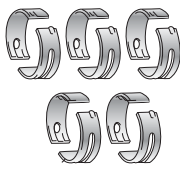
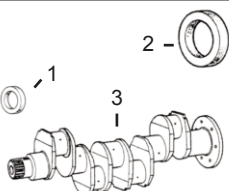
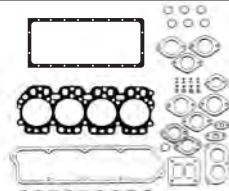
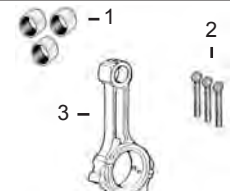
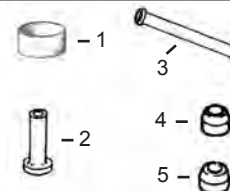
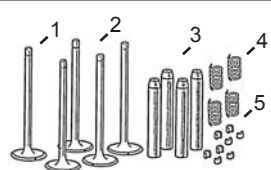
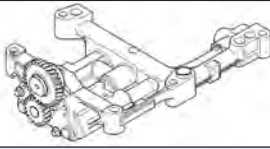
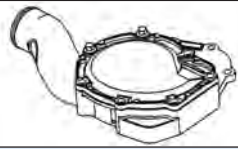
(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

Engine & Equipment Application										
1104D - 44T (NL) 1104D - 44TA (NM) TURBOCHARGED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter <u>APPLICATIONS:</u> Backhoe Loaders Excavators Forklifts MF5425 Telehandlers Skid Steer Loaders Pump Sets Woodchippers Wheel Loaders	1) Engine O/H Kit		Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
	2) Basic Kit		PU5PR0062 Std.		PU5MB0033 Std.		PU5ME0034 Std.		P31137551/61	
	1) POK509 Std.		PU5PR0062B 0.50 PU5PR0062D 1.00 4 Per Engine		PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030 Set of 5 Pairs		PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030 Set of 4 Pairs			
	2) PBK509 Std.									
	PBK510 0.50 PBK511 1.00									
	* Piston Kit consists of:									
	1) 1 X PMXFP062 Piston Std, 1 X PUPRK0005 Ring Set Std. 2) 1 X PMXFP062B Piston 0.50 mm, 1 X PUPRK0005B Ring Set 0.50 mm. 3) 1 X PMXFP062D Piston 1.00 mm, 1 X PUPRK0005D Ring Set 1.00 mm.									
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit		1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit		1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve			
	1) P2418F436 2) P2418F704 3) PZZ90239 (3)		1) PU5LT0357 2) PU5LB0381 3) P3681E051 4) P3681A055 5) P3681K037		1) P3112A005 x4 (3) 2) P3212V003 x8 (3) 3) P4115C314 (2) (3)		1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust 3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve		
PVTK426		1) P3142H101 x4 2) P3142A171 x4		3) P3313A012 x8		4) P3174A031 x8		5) P2714A002 x16		
Oil Pump		Water Pump		Water Pump Gasket						
P4132F071 (1)		PU5MW0208		P3682A011						

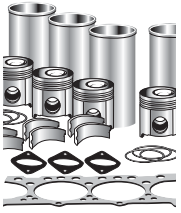
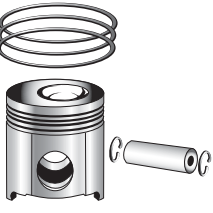
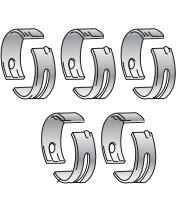
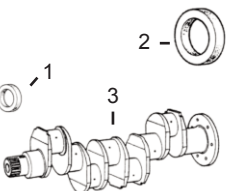
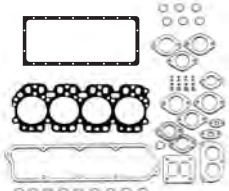
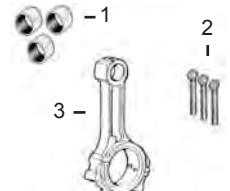
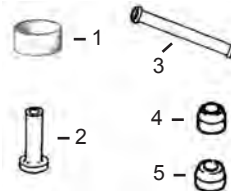
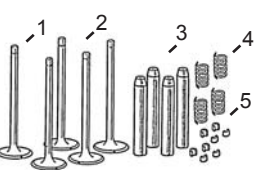
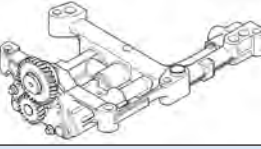
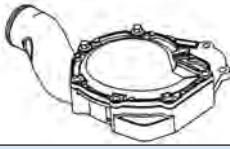
(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

(3) To ESN U056074T

Engine & Equipment Application						
1104D - 44T (NL)						
1104D - 44TA (NM)						
TURBOCHARGED		1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
		2) Basic Kit	PU5PR0062 Std.	PU5MB0033 Std.	PU5ME0034 Std.	P31137551/61
		1) POK512 Std. POK513 0.50 POK514 1.00	PU5PR0062B 0.50 PU5PR0062D 1.00	PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030	PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030	
		2) PBK512 Std. PBK513 0.50 PBK514 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
		* Piston Kit consists of:				
		1) 1 X PMXFP062 Piston Std, 1 X PUPRK0005 Ring Set Std. 2) 1 X PMXFP062B Piston 0.50 mm, 1 X PUPRK0005B Ring Set 0.50 mm. 3) 1 X PMXFP062D Piston 1.00 mm, 1 X PUPRK0005D Ring Set 1.00 mm.				
						
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
		1) P2418F436 2) P2418F704 3) PZZ90239 (3)	1) PU5LT0357 2) PU5LB0382 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 (3) 2) P3212V003 x8 (3) 3) P4115C314 (2) (3)	1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4	
			Valve Train Kit 1) Valve, Intake 2) Valve, Exhaust PVTK426 1) P3142H101 x4 2) P3142A171 x4	3) Guide, Valve (Intake & Exhaust) 3) P3313A012 x8	4) Spring, Valve 4) P3174A031 x8	5) Lock, Valve 5) P2714A002 x16
						
		Oil Pump	Water Pump	Water Pump Gasket		
		P4132F071 (1)	PU5MW0208	P3682A011		

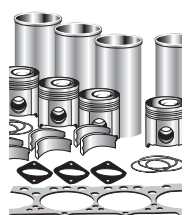
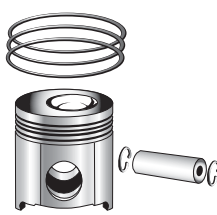
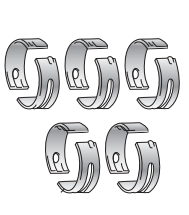
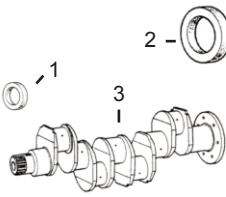
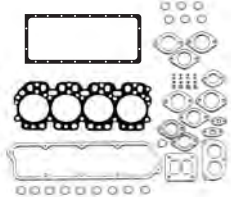
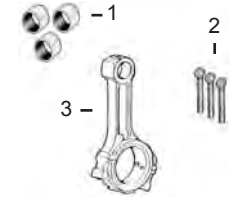
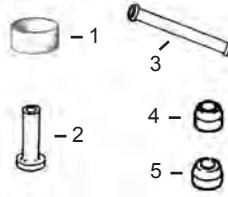
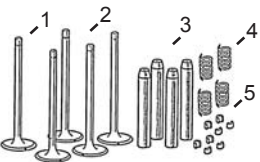
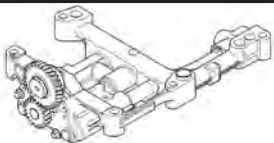
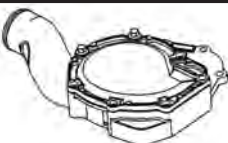
(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) To ESN U056074T

Engine & Equipment Application 1104D - 44T (NL) 1104D - 44TA (NM) TURBOCHARGED Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter APPLICATIONS: Backhoe Loaders Excavators Forklifts MF5425 Telehandlers Skid Steer Loaders Pump Sets Woodchippers Wheel Loaders	    				
	1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Kit	PU5PR0062 Std.	PU5MB0033 Std.	PU5ME0034 Std.	P31137551/61
	1) POK515 Std. POK516 0.50 POK517 1.00	PU5PR0062B 0.50 PU5PR0062D 1.00	PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030	PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030	
	2) PBK515 Std. PBK516 0.50 PBK517 1.00	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	* Piston Kit consists of: 1) 1 X PMXFP062 Piston Std, 2) 1 X PMXFP062B Piston 0.50 mm, 3) 1 X PMXFP062D Piston 1.00 mm, 1 X PUPRK0005 Ring Set Std. 1 X PUPRK0005B Ring Set 0.50 mm. 1 X PUPRK0005D Ring Set 1.00 mm.				
					
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod Kit	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
	1) P2418F436 2) P2418F704 3) PZZ90239 (3)	1) PU5LT0357 2) PU5LB0383 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 x4 (3) 2) P3212V003 x8 (3) 3) P4115C314 (2) (3)	1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4	
		Valve Train Kit PVTK426	1) Valve, Intake 2) Valve, Exhaust 1) P3142H101 x4 2) P3142A171 x4	3) Guide, Valve (Intake & Exhaust) 3) P3313A012 x8	4) Spring, Valve 5) Lock, Valve 4) P3174A031 x8 5) P2714A002 x16
					
	Oil Pump	Water Pump	Water Pump Gasket		
	P4132F071 (1)	PU5MW0208	P3682A011		

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

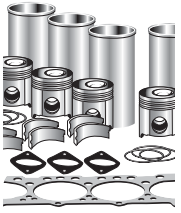
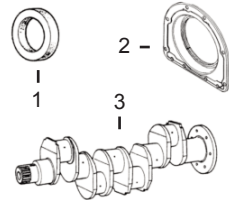
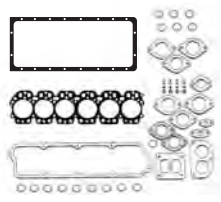
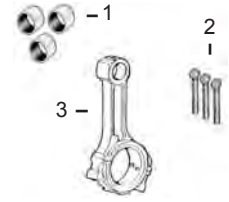
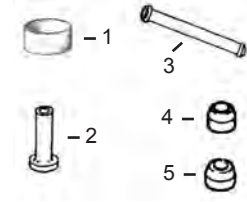
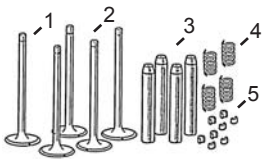
(3) To ESN U056074T

Engine & Equipment Application											
1104D - 44T (NL)		1) Engine O/H Kit		Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
1104D - 44TA (NM)		2) Basic Kit		PU5PR0062 Std.		PU5MB0033 Std.		PU5ME0034 Std.		P31137551/61	
TURBOCHARGED		1) POK518 Std.		PU5PR0062B 0.50 PU5PR0062D 1.00 4 Per Engine		PU5MB0033A .010 PU5MB0033B .020 PU5MB0033C .030 Set of 5 Pairs		PU5ME0034A .010 PU5ME0034B .020 PU5ME0034C .030 Set of 4 Pairs			
		POK519 0.50									
		POK520 1.00									
2) PBK518 Std.											
PBK519 0.50											
PBK520 1.00											
Bore: 4.133 in 105.00 mm		* Piston Kit consists of:									
Stroke: 5.00 in 127.00 mm		1) 1 X PMXFP062 Piston Std., 1 X PUPRK0005 Ring Set Std.									
Displacement: 269 in ³ 4.4 Liter		2) 1 X PMXFP062B Piston 0.50 mm, 1 X PUPRK0005B Ring Set 0.50 mm.									
		3) 1 X PMXFP062D Piston 1.00 mm, 1 X PUPRK0005D Ring Set 1.00 mm.									
APPLICATIONS: Backhoe Loaders Excavators Forklifts MF5425 Telehandlers Skid Steer Loaders Pump Sets Woodchippers Wheel Loaders											
		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod		1) Bushing, Cam			
		3) Crankshaft Kit		3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket		3) Con Rod Kit		2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve			
		1) P2418F436 2) P2418F704 3) PZZ90239 (3)		1) PU5LT0357 2) PU5LB0384 3) P3681E051 4) P3681A055 5) P3681K036		1) P3112A005 x4 (3) 2) P3212V003 x8 (3) 3) P4115C314 (2) (3)		1) P3112D071 x1 2) P3142U061 3) P3142V011 4) P2418M517 x4 5) P2418M519 x4			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve	
		PVTK426		1) P3142H101 x4 2) P3142A171 x4		3) P3313A012 x8		4) P3174A031 x8		5) P2714A002 x16	
											
Oil Pump				Water Pump				Water Pump Gasket			
P4132F071 (1)				PU5MW0208				P3682A011			

(1) Not to be used on engines with balancer units.

(2) Grade J, Color Coded Green.

(3) To ESN U056074T

Engine & Equipment Application					
1106 - E60TA (VK) Bore: 3.9370 in 100.00 mm	   				
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set (3)	Thrust Washer Set
	2) Basic Engine Kit	PCK0162 Consists of: a) P4115P001 b) PUPRK0001 c) P3135X062 6 Per Engine	PU5MB0030 Std. PU5MB0030A .010 PU5MB0030B .020 PU5MB0030C .030 Set of 7 Pairs	PU5ME0025 Std. PU5ME0025A .010 PU5ME0025B .020 PU5ME0025C .030 Set of 6 Pairs	P31137551/61 Set of 2 Pairs
	1) POK694				
	2) PBK694				
APPLICATIONS: MF AGRICULTURAL 5465/6465 (VK31483/VK31486) 5465/6465 (VK31505) 6360 (VK31483) 6370 (VK31484) 6380 (VK31485) 6475 (VK31484) 6480 (VK31485) 6475/7475 (VK31487/VK31503) 6475/7475 (VK31506) 6480/7480 (VK31507) 7465 (VK31486/VK31505)	   				
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
	3) Crankshaft Kit	3) Head Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve	
	1) P2418F436 2) P2418F701 3) PZZ90213 (1) PZZ90228 (2)	1) PU5LT0349 2) PU5LB0374 (4) 3) P3681E043	1) P3112A005 x6 2) P3212V003 x12 3) P4115C314 (5)	1) P31134132 x1 2) P31434163 3) P31434307 4) P2418M505 x6 5) P2418M506 x6	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve Inner & Outer	5) Lock, Valve
	PVTK620	1) P3142L081 x6 2) P3142D031 x6	a) P3313A012 x6 b) P3318A705 x6	4) P3174P409 x12	5) P3142W004 x24
					
1) Oil Pump 2) Oil Cooler		Lift Pump		Water Pump	
1) P4132F067 2) P2486A993		PULPK0036		PU5MW0196	

(1) To ESN U090153J.

(2) From ESN U090154J.

(3) For ESN prior to U090154J use **PU5ME0003**.

(4) For Builds (VK37779 to VK37787) use U5LB0370.

(5) Grade J, Color Coded Green.

Miscellaneous Parts

Available from Maxiforce

Part Number	Description	Engines
P0410236	Starter Ring Gear 115 Teeth	All
P0410264	Starter Ring Gear 122 Teeth	All
P69042	Top Gasket Set	V8.540
P92508	Piston	V8.540
P165990A	Gasket, Rocker Cover	6.354 (Oliver Tractor)
P2551A014	Bearing, Balancer Unit	4.236/1000 Series
P2551A201	Bearing, Balancer Unit	4.236/1000 Series
P2557181	Bearing, Balancer Unit	4.236/4.248
P2557182	Bearing, Balancer Unit	4.236/4.248
P31134121	Bushing, Idler Gear	6.354
P31162121	Starter Ring Gear 126 Teeth	All
P31165461	Gear, Balancer Unit	4.236/4.248
P31165531	Gear, Balancer Unit	4.236/4.248
P31171211	Gear, Crankshaft	6.354 Series (1)
P31171276	Shaft, Balancer Unit	4.236/4.248
P31171682	Gear, Crankshaft	6.354 Series (2)
P31171931	Gear, Camshaft	6.354
P3117C071	Gear, Balancer Unit	4.236/1000 Series
P31358126	Cylinder Liner	V8.540
P31431385	Exhaust Valve	V8.540
P31431822	Intake Valve	V8.540
P32731127	Shaft, Balancer Unit	4.236/4.248
P33124428	Insert, Valve Seat, Exhaust	D3.152/D4.203/4.203.2
P33125121	Insert, Valve Seat	6.354
P33152153	Insert, Valve Seat	G4.236/C4.236/T4.236
P33152154	Insert, Valve Seat, Exhaust	6.354.2/6.354.4/T6.354.4
P33152155	Insert, Valve Seat, Intake	6.354.2/6.354.4/T6.354.4
P33246423	Hub, Idler Upper	6.354
P33431505	Valve Guide	V8.540
P36811428	Gasket, Rocker Cover	6.354/T6.354
P41115006	Gear, Idler Upper	6.354 Series (3)
P41115007	Gear, Idler Lower	6.354 Series (3)
P41115056	Gear, Idler Upper	6.354 Series (4)
P41115057	Gear, Idler Lower	6.354 Series (4)
P41158137	Ring Set	V8.540
P41371077	Relief Valve, Oil Pressure	4.236
P41371115	Relief Valve, Oil Pressure	6.354.1/6.354.2/T6.354.1/TC6.354.1
P41371158	Relief Valve, Oil Pressure	6.354.2
P41371193	Relief Valve, Oil Pressure	6.354.4
P41371194	Relief Valve, Oil Pressure	T6.354.4
P41371195	Relief Valve, Oil Pressure	6.354.4
PU5LB0027	Bottom Gasket Set	V8.540
PU5MK0073	Cylinder, Kit	V8.540

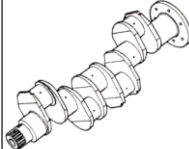
(1) Use on Original and Early Style Crankshaft.

(2) Use on Later Style Crankshaft Prefixed ZZ.

(3) For Early Blocks.

(4) For Late Blocks Prefixed ZZ.

Torque Information

				
ENGINE MODEL	CRANKSHAFT	CONROD	TIMING GEARS	CAMSHAFT
	Lb / Ft	Lb / Ft	Lb / Ft	Lb / Ft
3.152, D3.152, G3.152	110	45	50	21
4.108	85	42	36	21
4.203, 4.203.2, D4.203	115	45	21	21
4.212, 4.236, C4.236, G4.236, 4.248, 4.248.2	180 (1)	95 (1)	30	50
T4.236	180	95	30	50
6.354, T6.354, 6.354.2	180 (1)	95 (1)	(2) 50 (3) 65 (4) 24	50
6.354.4, T6.354.4	200	95 (1)	36	50
1004.40, 1006.60	196	92	33	58
1103, 1104, 1106	180	Step 1 Tighten to 13 Step 2 Tighten to 52 Step 3 Tighten to 120	33	70

(1) Early Engines Have Different Torque Specifications.

(2) 7/16 " Nuts.

(3) 1/2 " Nuts.

(4) 1/8 " Heavy Duty Nuts.

Introduction to Caterpillar® Section

Engine models covered by this User's Guide

MODEL	ASPIRATION	ENGINE SERIAL NUMBER	PAGE NUMBER
3013C	Naturally Aspirated	G3P, 313	B01
3024 (C2.2)	Naturally Aspirated	E2M1-UP, 4RF	B02
3024T (C2.2T)	Turbocharged	E6K1-UP	B03
3054	Naturally Aspirated	5PC1-UP	B04
3054	Naturally Aspirated	7BC1-UP	B04
3054T	Turbocharged	5PC1-UP	B05
3054T	Turbocharged	7BC1-UP	B05
3054	Naturally Aspirated	6FK1-UP	B06
3054T	Turbocharged	6FK1-UP	B07
3054T	Turbocharged	7BJ1-UP	B08
3054T	Turbocharged	7BJ1-UP	B09
3054 *	Turbocharged or Naturally Aspirated	5YS1-13498	B10
3054 *	Turbocharged or Naturally Aspirated	5YS13499-UP	B11
3054B *	Naturally Aspirated	5MF1-10869	B12
3054B *	Naturally Aspirated	5MF10870-UP	B13
3054C/E	Naturally Aspirated	3341-UP	B14
3054C/E	Naturally Aspirated	3341-UP	B15
3054C/E	Turbocharged	3341-UP	B16
3054C/E	Turbocharged	3341-UP	B17
3054C/E	Naturally Aspirated	CRS1-UP	B18
3054C/E	Turbocharged	CRX107-UP, BLN, FPD	B19
3056	Naturally Aspirated	1ML1-UP	B20
3056T	Turbocharged	1ML1-UP	B21
3056	Turbocharged or Naturally Aspirated	7MS1-2098	B22
3056	Turbocharged or Naturally Aspirated	7MS2099-UP	B23
3056E	Turbocharged	CPT1-843	B24
3056E	Turbocharged	CPT844-UP	B25

* Industrial and vehicular applications.

Maxiforce Engine Kit Composition for Caterpillar® Engine Applications

BOK: Engine Overhaul Kits Include: Cylinder kits, main and con rod bearing sets, thrust washer sets, front and rear seals, top and bottom gasket sets, conrod bushings, bolts and nuts, cam bushing and valve train kit.

BBK: Basic Engine Kits Include: All components in the **overhaul kit** with the exception of the valve train kit.

BVTK: Valve Train Kits Include: All valves, springs, guides, keepers and stem seals (Where Offered).

Crankshaft Kits Include: The crankshaft, main and con rod bearings and thrust washer sets.

NB: Should engine kits be required without engine bearings and thrust washers, please specify by adding the NB suffix on kit part number. i.e: BOK ___ NB.

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Caterpillar® Engine Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
TELEHANDLERS				
TH62	3054	3LN, 4TM1-6013	107-3778	B06
TH62	3054	3LN, 4TM1-6013	118-2942	B06
TH63	3054T	3JN	118-2942	B10
TH63	3054T	3JN	118-2942	B11
TH63	3054T	3JN	130-6342	B10
TH63	3054T	3JN	130-6342	B11
TH82	3054T	3KN	118-2942	B10
TH82	3054T	3KN	118-2942	B11
TH82	3054T	3KN	107-3778	B10
TH82	3054T	3KN	107-3778	B11
TH83	3054T	3NN, 3RN1-6014	118-2942	B10
TH83	3054T	3NN, 3RN1-6014	118-2942	B11
TH83	3054T	3NN, 3RN1-6014	130-6342	B10
TH83	3054T	3NN, 3RN1-6014	130-6342	B11
TH103	3054T	3PN1-3026	130-6342	B10
TH103	3054T	3PN1-3026	130-6342	B11
TH210	3054B	MHT	230-3483	B14
TH215	3054B-DI	MHS	230-3483	B14
TH220B	3054E	SLA	176-3180	B19
TH220B	3054E	SLA	194-9477	B19
TH330B	3054E	SLB	176-3180	B19
TH330B	3054E	SLB	194-9477	B19
TH350B	3054E	SLD	178-9011	B10
TH350B	3054E	SLD	178-9011	B11
TH460B	3054E	SLF	176-3180	B16
TH460B	3054E	SLF	178-9011	B16
TH460B	3054E	SLF	194-9477	B16
TH560B	3054E	SLG	176-3180	B16
TH560B	3054E	SLG	194-9477	B16
TH580B	3054E	SLH	176-3180	B16
TH580B	3054E	SLH	194-9477	B16
HYDRAULIC EXCAVATORS				
307	3054	2WM1-1000		B06
M312	3054	6BL	107-9664	B07
M312	3054	6TL1-409	107-9665	B08
M312	3054	6TL-410-UP	165-7604	B10
M315	3054	3ZM	105-7971	B07
M315	3054	7ML1-859	107-9665	B08
M315	3054	7ML1-859	107-9665	B09
M315	3054	7ML860-UP	165-7604	B08
M315	3054	7ML860-UP	165-7604	B09
M316C	3056E	H2C	188-5097	B25
M316C	3056E	BDX1-2000	188-5097	B25
M316C	3056E	BDX2001-UP	188-5097	B24
M316C	3056E	BDX2001-UP	188-5097	B25
M318C	3056	BCZ1-2000	188-5096	B25
M318C	3056	BCZ2001-UP	188-5096	B25
M318C	3056	BEB1-2000	188-5096	B24
M318C	3056	BEB1-2000	188-5096	B25
M318C	3056	BEB2001-UP	188-5096	B24

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
M318C	3056	BEB2001-UP	188-5096	B25
M318C	3056	H2D	188-5096	B24
M318C	3056	H2D	188-5096	B25
M318C	3056E	H2F	188-5096	B24
M318C	3056E	H2F	188-5096	B25
M322C	3056	BDK1-2000	188-5098	B24
M322C	3056	BDK1-2000	188-5098	B25
M322C	3056E	BDK2001-UP	188-5098	B24
M322C	3056E	BDK2001-UP	188-5098	B25
M322C	3056	BDY1-2000	188-5098	B24
M322C	3056	BDY1-2000	188-5098	B25
M322C	3056E	BDY2001-UP	188-5098	B24
M322C	3056E	BDY2001-UP	188-5098	B25
M322C	3056E	H2G	188-5098	B25
312B/L	3054	6SW	130-4666	B10
312B/L	3054	6SW	130-4666	B11
312B/L	3054	9FS	130-4666	B10
312B/L	3054	9FS	130-4666	B11
312B/L	3054	9NW	130-4666	B10
312B/L	3054	9NW	130-4666	B11
312B/L	3054T	BNN	139-4666	B10
312B/L	3054T	BNN	139-4666	B11
312B/L	3054T	CBT	189-6184	B10
312B/L	3054T	CBT	189-6184	B11
M313C	3054	BDR1-2000	188-5099	B16
M313C	3054E	BDR2001-UP	188-5099	B16
313C	3054E	H2A	188-5099	B16
315B	3054	5SW	130-6340	B10
315B	3054	5SW	130-6340	B11
315C	3054E	BDM1-2000	188-5100	B16
315C	3054E	BDM2001-UP	188-5100	B16
315C	3054E	H2B	188-5100	B16
315L	3054	ANF	176-3172	B16
317	3054	4MM	105-7971	B07
317N	3054	4MM	105-7971	B07
317	3054	9SR	105-7971	B07
317N	3054	9SR	105-7971	B07
VIBRATORY COMPACTORS				
CB434B	3054	6AL1-87, 7YN	100-4276	B06
CB434C	3054	4MW	130-4799	B10
CB434C	3054	4MW	130-4799	B11
CB434C	3054	4MW	130-4799	B10
CB434C	3054	4MW	130-4799	B11
CB434D	3054E	4DN	130-4799	B10
CB434D	3054E	4DN	130-4799	B11
CB434D	3054E	4DN	130-4799	B10
CB434D	3054E	4DN	130-4799	B11
CB434D	3054E	4DN	130-4799	B11
CB434D	3054	4DN	100-4276	B06
CB434D	3054	4DN	130-4799	B10
CB434D	3054	4DN	130-4799	B11
CB534B	3054	4JL	100-8184	B10

Caterpillar® Engine Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
CB534B	3054	4JL	100-8184	B11
CB534C	3054	1WS	130-4800	B10
CB534C	3054	1WS	130-4800	B11
CB534D	3054	5HN, C2B, C4B		B10
CB534D	3054	C8M, FEA, FGH		B10
CB534D	3054	5HN, C2B, C4B		B11
CB534D	3054	C8M, FEA, FGH		B11
CB535B	3054	3AR		B10
CB535B	3054	3AR		B11
CB544	3054	8FM		B10
CB544	3054	8FM		B11
CB545	3054	2FS		B10
CB545	3054	2FS		B11
CB564D	3054	C6D, D4M		B10
CB564D	3054	C6D, D4M		B11
CP323C	3054	1EN		B10
CP323C	3054	1EN		B11
CS323C	3054E	6DM		B10
CS323C	3054E	6DM		B11
CS/CP323E	3054	EAS		B10
CS/CP323E	3054	EAS		B11
CS423E	3054E	AST, BWG		B10
CS423E	3054E	AST, BWG		B11
CS431C	3054	9XL, 3WZ, 6EN		B10
CS431C	3054	9XL, 3WZ, 6EN		B11
CS433C	3054	3TM, 1FS		B10
CS433C	3054	3TM, 1FS		B11
CP323C	3054E			B10
CP323C	3054E			B11
CS/CP533E	3054	ASL, ASM		B10
CS/CP533E	3054	ASN, ASR		B10
CS/CP533E	3054	BZE, BZG		B10
CS/CP533E	3054	DAK, DAM		B10
CS/CP533E	3054	ASL, ASM		B11
CS/CP533E	3054	ASN, ASR		B11
CS/CP533E	3054	BZE, BZG		B11
CS/CP533E	3054	DAK, DAM		B11
CS/CP433C	3054	1XZ, 2JM		B10
CS/CP433C	3054	1ZN, 5BZ		B10
CS/CP433C	3054	2TN, BTY, 4JZ		B10
CS/CP433C	3054	1XZ, 2JM		B11
CS/CP433C	3054	1ZN, 5BZ		B11
CS/CP433C	3054	2TN, BTY, 4JZ		B11
CS/CP433E	3054	CFK, CFP, CYE		B10
CS/CP433E	3054	DAC, BTT		B10
CS/CP433E	3054	CFK, CFP, CYE		B11
CS/CP433E	3054	DAC, BTT		B11
CS/CP563E	3056	ASA, BWE		B10
CS/CP563E	3056	CNG, CNT,		B10
CS/CP563E	3056	ASA, BWE		B11
CS/CP563E	3056	CNG, CNT,		B11

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
CS/CP573E	3056	ASZ, ASY		B10
CS/CP573E	3056	CEB, CNN		B10
CS/CP573E	3056	ASZ, ASY		B11
CS/CP573E	3056	CEB, CNN		B11
CS/CP583E	3056	CNX, DAJ		B10
CS/CP583E	3056	CNX, DAJ		B11
CS/CP663E	3056	AEF, AFL		B10
CS/CP663E	3056	ASB, ASF		B10
CS/CP663E	3056	DAF, DAG, ASB		B10
CS/CP663E	3056	AEF, AFL		B11
CS/CP663E	3056	ASB, ASF		B11
CS/CP663E	3056	DAF, DAG, ASB		B11
CS683E	3056	AGR, ASG, DAD		B10
CS683E	3056	AGR, ASG, DAD		B11
PF/PS300C		6HM00001-00412		B10
PF/PS300C		6HM00001-00412		B11
PF/PS300C		6HM00413-UP		B10
PF/PS300C		6HM00413-UP		B11
PF/PS300C		PFB1-UP		B10
PF/PS300C		PFB1-UP		B11
PF/PS300C		PFS1-UP		B10
PF/PS300C		PFS1-UP		B11
PF290B		1XW00001-UP		B10
PF290B		1XW00001-UP		B11
PF300B		4PN00001-01025		B10
PF300B		4PN00001-01025		B11
PS150B		3XR00001-UP		B10
PS150B		3XR00001-UP		B11
PS150C		FPS00001-UP		B10
PS150C		FPS00001-UP		B11
PS200B		5JR00001-UP		B10
PS200B		5JR00001-UP		B11
PS360B		9LS00001-UP		B10
PS360B		9LS00001-UP		B11
PS360C		PJF00001-UP		B10
PS360C		PJF00001-UP		B11
AP600	3056	B2B, B2S		B10
AP600	3056	B2B, B2S		B11
AP650B	3054	5GN, 9DN, A7P		B10
AP650B	3054	5GN, 9DN, A7P		B11
AP655C	3056	AYP, B9G, CDG		B10
AP655C	3056	AYP, B9G, CDG		B11
AP800C	3054	1PM, 9AL		B10
AP800C	3054	1PM, 9AL		B11
AP800D	3054	A5P, B4G		B10
AP800D	3054	A5P, B4G		B11
WHEEL LOADERS				
908	3054	8BS	139-9582	B10
908	3054	8BS	212-3603	B10
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908	3054	8BS	212-3603	B11

Caterpillar® Engine Application Chart

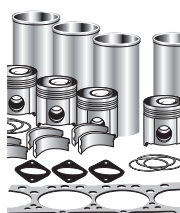
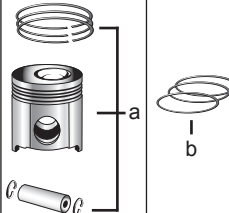
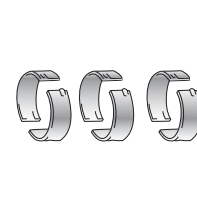
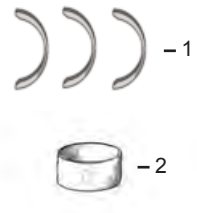
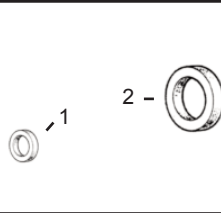
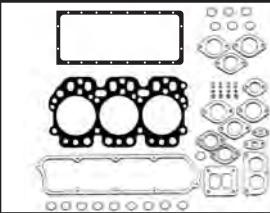
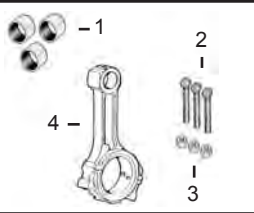
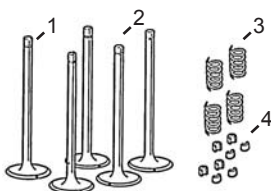
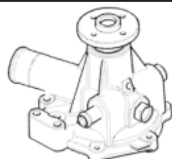
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914G	3054E	7ZM1-439	203-0762	B08
914G	3054E	7ZM440-UP	203-0762	B08
914G	3054E	9WN1-3012		B08
914G	3054E	PDF		B08
IT14G	3054E	1WN1-659	107-4860	B08
IT14G	3054E	1WN1-659	203-0762	B08
IT14G	3054E	1WN660-UP	107-4860	B08
IT14G	3054E	1WN660-UP	203-0762	B08
IT14G	3054E	8ZM1-331	107-4860	B08
IT14G	3054E	8ZM1-331	203-0762	B08
IT14G	3054E	8ZM332-UP	203-0762	B08
IT14G	3054E	FWL	356-9742	B08
IT14G	3054E	FWL	179-1795	B16
IT14G	3054E	FWL	318-5435	B16
IT14G	3054E	FWL	318-5436	B16
IT14G	3054E	FWL	323-6954	B16
BACKHOE LOADERS				
414E	3054	ELB	176-3180	B19
414E	3054	ELB	194-9477	B19
414E	3054	ELB	234-3060	B19
414E	3054	ELB	273-3610	B19
414E	3054	ELB	273-3611	B19
414E	3054	ELB	323-5725	B19
414E	3054	ELB	325-5121	B19
416B	3054	8SG1-11999	7E7702	B06
416B	3054	8SG1-11999	7E9558	B06
416B	3054	8SG1-11999	7E9559	B06
416B	3054	8SG1-11999	7E9650	B06
416B	3054	8SG1-11999	7E7702	B07
416B	3054	8SG1-11999	7E9558	B07
416B	3054	8SG1-11999	7E9559	B07
416B	3054	8SG1-11999	7E9650	B07
416B	3054	8SG12000-14798	7E7702	B06
416B	3054	8ZK1-5999	7E7702	B06
416B	3054	8ZK6000-11031	7E7702	B06
416B	3054	8ZK6000-11031	7E9559	B07
416B	3054	8ZK06000-11031	7E7702	B06
416C	3054	1WR1-8115	106-5001	B06
416C	3054	1WR8116-10736	106-5002	B07
416C	3054	1WR8116-10736	106-5002	B07
416C	3054	1WR8116-10736	106-5001	B06
416C	3054	1XR1-2183	106-5002	B07
416C	3054	1XR1-2183	153-5364	B07
416C	3054	1XR1-2183	106-5001	B06
416D	3054	CXP1-939	188-0883	B10
416D	3054	CXP1-939	188-0883	B11
416D	3054	CXP940-UP	187-8016	B10
416D	3054	CXP940-UP	187-8016	B11
416D	3054	CXP940-UP	234-3058	B18

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
416D	3054	B2D	234-3058	B18
416D	3054	B2D	234-3059	B18
416D	3054	BFP1-5177	188-0883	B10
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416D	3054	BFP5178-12899	187-8016	B10
416D	3054	BFP5178-12899	187-8016	B11
416D	3054	BFP12900-UP	188-0883	B10
416D	3054	BFP12900-UP	188-0883	B11
416D	3054	BGJ1-522	188-0883	B10
416D	3054	BGJ1-522	204-5372	B10
416D	3054	BGJ1-522	188-0883	B11
416D	3054	BGJ1-522	204-5372	B11
416D	3054	BGJ523-UP	187-8016	B10
416D	3054	BGJ523-UP	204-5371	B10
416D	3054	BGJ523-UP	187-8016	B11
416D	3054	BGJ523-UP	204-5371	B11
416D	3054	BKG1-1299	187-8016	B10
416D	3054	BKG1-1299	204-5371	B10
416D	3054	BKG1-1299	187-8016	B11
416D	3054	BKG1-1299	204-5371	B11
416D	3054	BKG1300-UP	188-0883	B10
416D	3054	BKG1300-UP	188-0883	B11
416D	3054	BKG1300-UP	188-0883	B10
416D	3054	BKG1300-UP	188-0883	B11
416E	3054	CBD	273-3610	B19
416E	3054	CBD	323-5725	B19
416E	3054	SHA	320-8414	B16
416E	3054	SHA	323-5725	B16
420D	3054	FDP1-7198	187-8014	B10
420D	3054	FDP1-7198	187-8014	B11
420D	3054	FDP7199-18399	187-8014	B10
420D	3054	FDP7199-18399	187-8014	B11
420D	3054	FDP-184000-UP	234-3060	B19
420D	3054	FDP-184000-UP	273-3611	B19
420D	3054	BKC1-501	187-8014	B10
420D	3054	BKC1-501	204-5369	B10
420D	3054	BKC1-501	187-8014	B11
420D	3054	BKC1-501	204-5369	B11
420D	3054	BKC5002-UP	187-8014	B10
420D	3054	BKC5002-UP	204-5369	B10
420D	3054	BKC5002-UP	187-8014	B11
420D	3054	BKC5002-UP	204-5369	B11
420D	3054	BLN1-4543	187-8014	B10
420D	3054	BLN1-4543	187-8014	B11
420D	3054	BLN4544-10299	187-8014	B10
420D	3054	BLN4544-10299	187-8014	B11
420D	3054	BLN10300-UP	234-3060	B19
420D	3054	BLN10300-UP	273-3611	B19
420D	3054	BMC1-610	187-8014	B10
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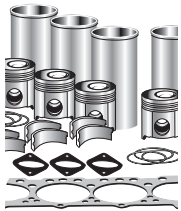
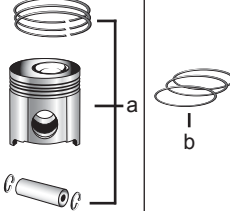
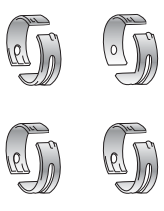
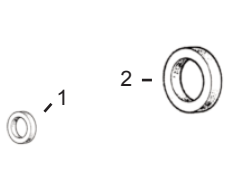
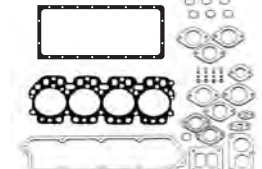
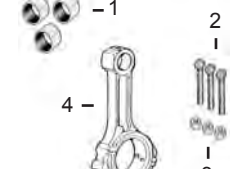
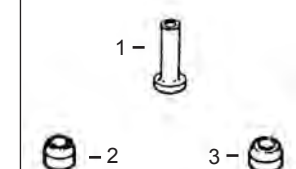
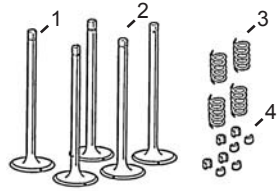
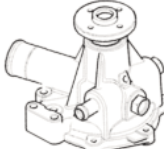
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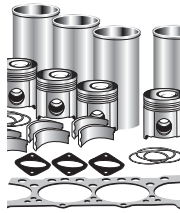
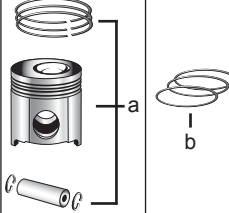
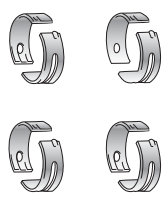
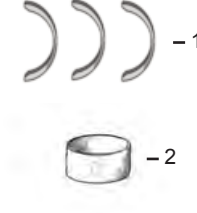
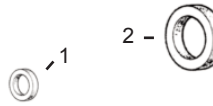
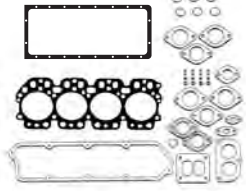
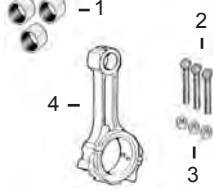
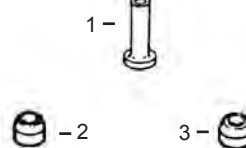
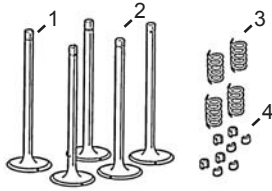
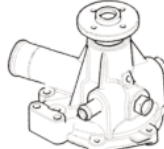
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420D	3054	BMC611-UP	204-5369	B10
420D	3054	BMC611-UP	187-8014	B11
420D	3054	BMC611-UP	204-5369	B11
420D	3054	HLS	273-3610	B19
420D	3054	HLS	320-8414	B19
420D	3054	HLS	323-5725	B19
420D	3054	HLS	325-5121	B19
420D	3054	KMW	273-3610	B19
420D	3054	KMW	320-8414	B19
420D	3054	KMW	323-5725	B19
420D	3054	KMW	325-5121	B19
422E	3054	HBE	319-2121	B16
422E	3054	HBE	227-4805	B16
424D	3054C	CJZ	234-5039	B18
424D	3054C	RXA	234-3059	B18
426B	3054	5YJ1-2299		B07
426B	3054	5YJ2300-UP		B07
426B	3054	6KL1-1199		B07
426B	3054	6KL1200-UP	7E9559	B07
426C	3054	1CR1-863	122-8804	B10
426C	3054	1CR1-863	122-8804	B11
426C	3054	1CR864-1085	122-8805	B10
426C	3054	1CR864-1085	122-8805	B11
426C	3054	1CR864-1085	158-6066	B10
426C	3054	1CR864-1085	158-6066	B11
426C	3054	1ER1-863	106-5002	B10
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426C	3054	1ER864-899	122-8805	B10
426C	3054	1ER864-899	122-8805	B11
426C	3054	1ER900-UP	122-8805	B10
426C	3054	1ER900-UP	122-8805	B11
426C	3054	1MR1-955	122-8804	B10
426C	3054	1MR1-955	122-8804	B11
426C	3054	1MR956-1179	122-8805	B10
426C	3054	1MR956-1179	122-8805	B11
426C	3054	1NR1-953	122-8804	B10
426C	3054	1NR1-953	122-8804	B11
426C	3054	1NR954-1049	122-8805	B10
426C	3054	1NR954-1049	122-8805	B11
426C	3054	1NR1050-UP	122-8805	B10
426C	3054	1NR1050-UP	122-8805	B11
426C	3054	1YR1-1516	122-8804	B10
426C	3054	1YR1-1516	122-8804	B11
426C	3054	1YR1517-2191	122-8805	B10
426C	3054	1YR1517-2191	122-8805	B11
426C	3054	1NR1-953	122-8804	B10
426C	3054	1NR1-953	122-8804	B11
426C	3054	1NR954-1049	122-8805	B10
426C	3054	1NR954-1049	122-8805	B11

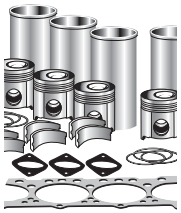
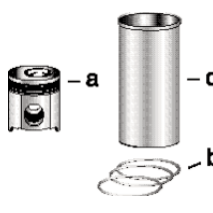
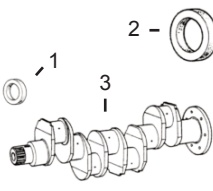
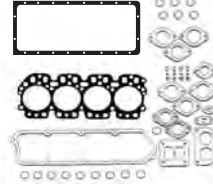
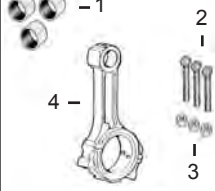
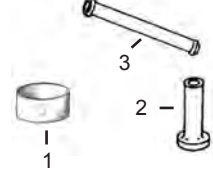
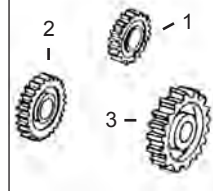
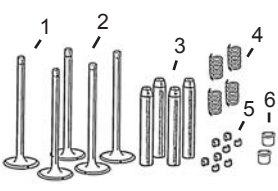
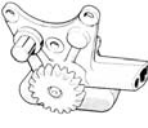
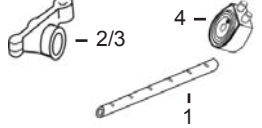
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426C	3054	1ZR1-925	122-8804	B10
426C	3054	1ZR1-925	122-8804	B11
426C	3054	1ZR926-999	122-8805	B10
426C	3054	1ZR926-999	122-8805	B11
426C	3054	1ZR1000-1017	122-8805	B10
426C	3054	1ZR1000-1017	122-8805	B11
426C	3054	6XN1-3615	122-8804	B10
426C	3054	6XN1-3615	122-8804	B11
426C	3054	6XN3616-4980	122-8805	B10
426C	3054	6XN3616-4980	122-8805	B11
426C	3054	7WN1-938	106-5002	B07
426C	3054	7WN1-938	153-5364	B07
426C	3054	7WN939-1099	122-8805	B10
426C	3054	7WN939-1099	122-8805	B11
426C	3054	7WN1100-1110	122-8805	B10
426C	3054	7WN1100-1110	122-8805	B11
428B	3054	7EJ1-5999		B07
428B	3054C	7EJ6000-9446	7E7702	B06
428C	3054	2CR1-16211	106-5001	B06
428C	3054	2CR16212-19309	106-5001	B06
428C	3054	2CR19310-UP	122-8803	B10
428C	3054	8RN1-4088	106-5002	B07
428C	3054	8RN4089-4989	106-5002	B07
428C	3054C	8RN4990-UP	106-5001	B07
428D	3054C	BNS1-1117	188-0883	B10
428D	3054C	BNS1-1117	204-5372	B10
428D	3054C	BNS1-1117	188-0883	B11
428D	3054C	BNS1-1117	204-5372	B11
428D	3054C	BNS1118-1851	188-0883	B10
428D	3054C	BNS1118-1851	204-5372	B10
428D	3054C	BNS1118-1851	188-0883	B11
428D	3054C	BNS1118-1851	204-5372	B11
428D	3054C	BXC	234-3059	B16
428D	3054C	BXC	234-3061	B19
428D	3054C	MBM	234-3059	B16
428D	3054C	MBM	234-3061	B19
428D	3054C	BLL1-650	188-0883	B10
428D	3054C	BLL1-650	204-5372	B10
428D	3054C	BLL1-650	188-0883	B11
428D	3054C	BLL1-650	204-5372	B11
428D	3054C	BLL651-712	188-0883	B10
428D	3054C	BLL651-712	204-5372	B10
428D	3054C	BLL651-712	188-0883	B11
428D	3054C	BLL651-712	204-5372	B11
428D	3054C	BMT1-1617	188-0883	B10
428D	3054C	BMT1-1617	204-5372	B10
428D	3054C	BMT1-1617	188-0883	B11
428D	3054C	BMT1-1617	204-5372	B11
428D	3054C	BMT1618-3227	188-0883	B10

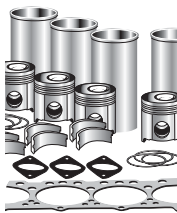
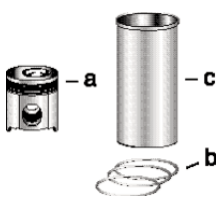
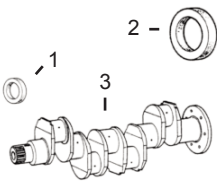
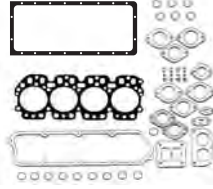
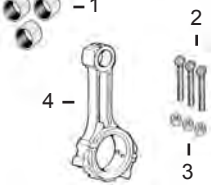
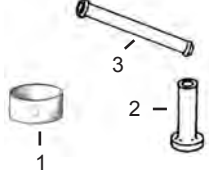
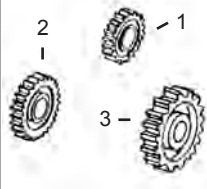
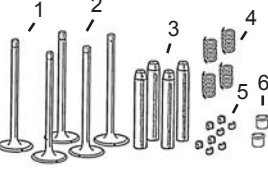
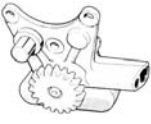
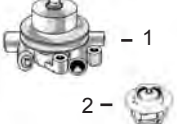
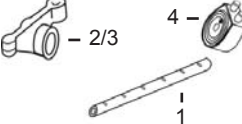
Engine & Equipment Application CATERPILLAR 3013C NATURALLY ASPIRATED 3 Cyl ESN G3P, 313 Bore: 3.3 in 84.00 mm Stroke: 3.9 in 90.00 mm Displacement: 91 in ³ 1.496 Liter	 		 		
	1) Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
	2) Basic Engine Kit	a) B197-0554 Std. B197-0554B 0.50	B156-6977 Std. B161-2628 .010 B161-2629 .020	B156-6978 Std. B161-2630 .010 B161-2631 .020	1) B154-1231 Std. Set of 2 Pcs 2) B294-4916 Std. B302-4181 .010 B302-4182 .020
	1) BOK525 Std. BOK526 0.50	b) B154-0943 Std. B154-0943B 0.50			
	2) BBK525 Std. BBK526 0.50	3 Per Engine	Set of 3 Pairs	Set of 3 Pairs	
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Valve Intake 3) Seal, Valve Exhaust	
		2) Cylinder Head Gasket 3) Oil Pan Gasket			
	1) B154-1675 2) B156-6973	1) B155-8078 2) B218-8537 3) B215-2604 (1)	1) B154-0869 x3 2) B154-0870 x6 3) B154-0871 x6 4) B156-6980	1) B154-1249 2) B153-5559 x4 3) B153-5554 x4	
			3) Spring, Valve	4) Lock, Valve	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust			
	BVTK559	1) B156-6985 x3 2) B156-6986 x3	3) B153-5558 x6	4) B153-5556 x12	
					
Water Pump		Oil Pump		Thermostat	
B311-0053		B297-3050		B249-5541	
					
				Repair Sleeve	
				84RS	

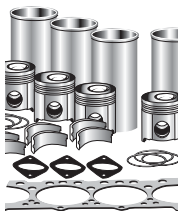
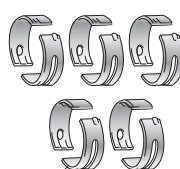
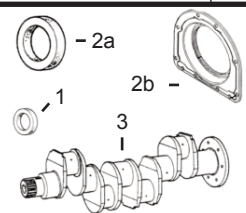
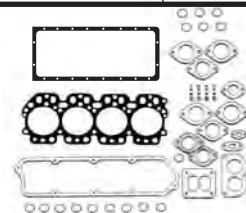
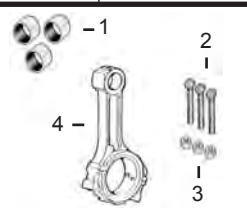
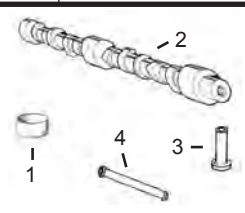
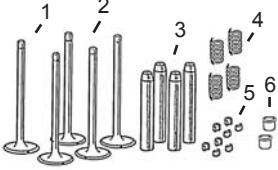
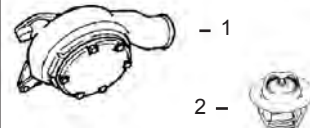
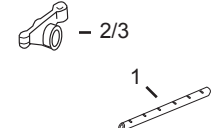
(1) 1.4mm Thickness.

Engine & Equipment Application													
CATERPILLAR 3024 C2.2 NATURALLY ASPIRATED 4 Cyl ESN E2M1-UP, 4RF Bore: 3.3 in 84.00 mm Stroke: 3.9 in 100.00 mm Displacement: 134 in ³ 2.216 Liter ENGINE ARRANGEMENT 177-3269 177-3298 177-3272 177-3306 177-3273 183-1335 177-3274 196-8763 177-3275 197-7203 177-3278 199-2653 177-3287 199-9054 177-3297		1) Engine O/H Kit		a) Piston Kit		Main Bearing Set		Con Rod Bearing Set		1) Thrust Washer			
		2) Basic Engine Kit		b) Ring Set						2) Crank Bushing			
		2) BOK536 Std. BOK537 0.50		a) B297-3080 Std. B297-3080B 0.50		B154-1203 Std. B161-7163 .010 B161-7164 .020		B146-7808 Std. B307-9855 .010 B307-9856 .020		1) B154-1230/31 Std.			
		1) BOK536 Std. BOK537 0.50		b) B154-0943 Std. B154-0943B 0.50						Set of 3 Pcs			
		2) BBK536 Std. BBK537 0.50		4 Per Engine		Set of 4 Pairs		Set of 4 Pairs		2) B294-4916 Std. B302-4181 .010 B302-4182 .020			
													
		1) Front Seal 2) Rear Seal		1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker 4) Seal, Cyl Head Cover 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod		1) Tappet 2) Seal, Valve Intake 3) Seal, Valve Exhaust					
		1) B154-1675 2) B154-0178		1) B164-8900 2) B311-1685 3) B217-2752 4) B233-0695 5) B215-2605		1) B154-0869 x4 2) B154-0870 x8 3) B154-0871 x8 4) B154-0867		1) B154-1249 2) B153-5559 x4 3) B153-5554 x4					
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Spring, Valve		4) Lock, Valve					
		BVTK558		1) B154-0888 x4 2) B154-0889 x4		3) B153-5558 x8		4) B153-5556 x16					
													
Water Pump		Oil Pump		Thermostat		Repair Sleeve							
B311-0053		B297-3050		B249-5541		84RS							

Engine & Equipment Application CATERPILLAR 3024T C2.2T TURBOCHARGED 4 Cyl ESN E6K1-UP Bore: 3.3 in 84.00 mm Stroke: 3.9 in 100.00 mm Displacement: 134 in ³ 2.216 Liter ENGINE ARRANGEMENT 310-5635						
	1) Engine O/H Kit		a) Piston Kit	Main Bearing Set		1) Thrust Washer
	2) Basic Engine Kit		b) Ring Set	Con Rod Bearing Set		2) Crank Bushing
	1) BOK538 Std. BOK539 0.50		a) B270-6968 Std. B270-6968B 0.50	B154-1203 Std.	B146-7808 Std.	1) B154-1230/31 Std.
	2) BBK538 Std. BBK539 0.50		b) B270-6970 Std. B270-6970B 0.50	B161-7163 .010 B161-7164 .020	B307-9855 .010 B307-9856 .020	Set of 3 Pcs 2) B294-4916 Std. B302-4181 .010 B302-4182 .020
	4 Per Engine		Set of 4 Pairs	Set of 4 Pairs	Set of 4 Pairs	
						
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Tappet 2) Seal, Valve Intake 3) Seal, Valve Exhaust
			2) Cylinder Head Gasket 3) Seal Rocker 4) Seal, Cyl Head Cover 5) Oil Pan Gasket		4) Con Rod	
	1) B154-1675 2) B154-0178		1) B3024TOG 2) B311-1685 3) B217-2752 4) B233-0695 5) B215-2605		1) B154-0869 x4 2) B154-0870 x8 3) B154-0871 x8 4) B154-0867	1) B154-1249 2) B153-5559 x4 3) B153-5554 x4
	Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Spring, Valve	4) Lock, Valve
	BVTK558		1) B154-0888 x4 2) B154-0889 x4		3) B153-5558 x8	4) B153-5556 x16
						
Water Pump		Oil Pump		Thermostat		Repair Sleeve
B311-0053		B297-3050		B249-5541		84RS

Engine & Equipment Application CATERPILLAR 3054 416/426 BACKHOES NATURALLY ASPIRATED Bore: 3.877 in 98.476 mm MODEL 416 ESN 5PC1 - UP MODEL 426 ESN 7BC1 - UP ENGINE ARRANGEMENT 2W-9777 7C-6074 2W-9778											
		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		BCK819 Consists of: a) B4W-5819 b) B7W-7732 c) B7C-3182 4 Per Engine		B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030 Set of 5 Pairs		B4P-9944 Std. B4P-9945 .010 B4P-9946 .020 B4P-9947 .030 Set of 4 Pairs		B032-9090/91 Std. B067-6873/74 .007 Set of 2 Pairs	
		1) BOK500 2) BBK500									
											
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit		1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk 4) Head Gasket 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod		1) Bushing, Cam 2) Tappet 3) Push Rod		1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear	
		1) B4W-5359 2) B4W-5360 3) B7C-8214		1) B4P-7577 2) B7C-3801 3) B4P-3676 4) B7C-3803 5) B032-9946		1) B067-6158 x4 2) B067-6883 x8 3) B7W-2505 x8 4) B067-6879		1) B036-5802 x1 2) B138-2053 3) B067-6095		1) B067-9579 2) B7C-3187 3) B2W-1529	
				Valve Train Kit BVTK550		1) Valve, Intake 2) Valve, Exhaust 1) B2W-6988 x4 2) B7W-2522 x4		3) Guide, Valve a) Intake b) Exhaust a) B160-5436 x4 b) B160-5438 x4		4) Spring, Valve a) Inner b) Outer a) B067-6053 x8 b) B067-6052 x8	
											
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler		1) Cylinder Head (With Valves) 2) Glowplug			
B067-6925		B7C-2798		1) B7E-9195 2) B4W-8063		1) B032-9007 2) B150-1217 3) B150-1218 4) B7E-5584		1) B7C-3188 2) B035-8059			

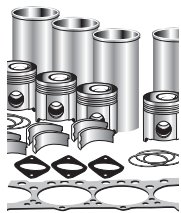
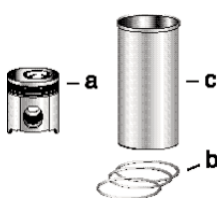
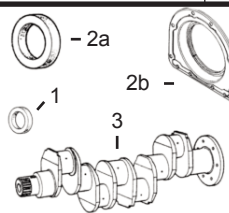
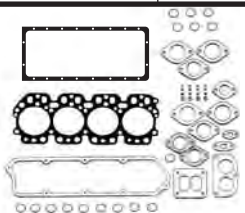
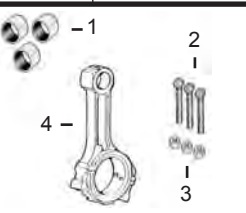
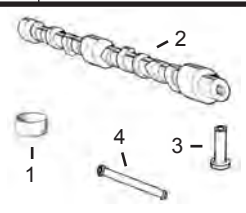
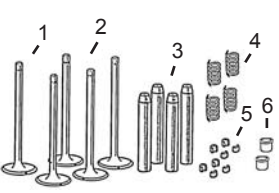
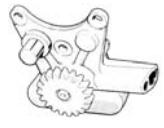
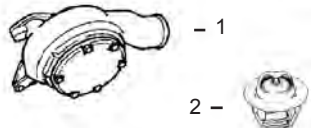
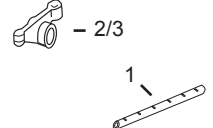
Engine & Equipment Application											
CATERPILLAR 3054T 416/426 BACKHOES TURBOCHARGED Bore: 3.877 in 98.476 mm MODEL 416 ESN 5PC1 - UP MODEL 426 ESN 7BC1 - UP ENGINE ARRANGEMENT 7W-8998 7C-6076		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		BCK107 Consists of: a) B116-6107 b) B7W-2513 c) B7C-3182 4 Per Engine		B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030 Set of 5 Pairs		B4P-9944 Std. B4P-9945 .010 B4P-9946 .020 B4P-9947 .030 Set of 4 Pairs		B032-9090/91 Std. B067-6873/74 .007 Set of 2 Pairs	
		1) BOK501									
		2) BBK501									
											
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit		1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gsk 4) Head Gasket 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod		1) Bushing, Cam 2) Tappet 3) Push Rod		1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear	
		1) B4W-5359 2) B4W-5360 3) B7C-8214		1) BTG-0236 2) B7C-3801 3) B4P-3676 4) BCH-0236 5) B032-9946		1) B7W-2510 x4 2) B067-6883 x8 3) B7W-2505 x8 4) B7W-2514		1) B036-5802 x1 2) B138-2053 3) B067-6095		1) B067-9579 2) B7C-3187 3) B2W-1529	
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve a) Inner b) Outer		5) Lock, Valve 6) Seal, Valve	
		BVTK550		1) B2W-6988 x4 2) B7W-2522 x4		a) B160-5436 x4 b) B160-5438 x4		a) B067-6053 x8 b) B067-6052 x8		5) B067-6834 x16 6) B1W-5849 x8	
											
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler		1) Cylinder Head (With Valves) 2) Glowplug			
B067-6925		B7C-2798		1) B7E-9195 2) B4W-8063		1) B032-9007 2) B150-1217 3) B150-1218 4) B7E-5584		1) B7C-3188 2) B035-8059			

Engine & Equipment Application										
CATERPILLAR 3054 INDUSTRIAL ENGINE NATURALLY ASPIRATED 4 Cyl Bore: 3.937 in 100.00 mm ESN 6FK1-UP ENGINE ARRANGEMENT 6I-2215 6I-2220 7E-7702 106-5001 107-3778 108-0495 115-1697		1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set		
		2) Basic Engine Kit	BCK264 Consists of: a) B135-0264 b) B146-1780 c) B6I-0164 (1) 4 Per Engine	B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030 Set of 5 Pairs		B4P-9944 Std. B4P-9945 .010 B4P-9946 .020 B4P-9947 .030 Set of 4 Pairs		B032-9090/91 Std. B067-6873/74 .007 Set of 2 Pairs		
		1) BOK502								
		2) BBK502								
										
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod		1) Bushing, Cam 2) Camshaft 3) Tappet 4) Push Rod				
		1) B4W-5359 2a) B4W-5360 (2) 2b) B209-9218 (3) 3) B7C-8214	1) B177-3310 2) B173-9716 3) B126-6671 4) B160-0161 5) B032-9946	1) B067-6158 x4 2) B067-6883 x8 3) B7W-2505 x8 4) B067-6879		1) B036-5802 x1 2) B132-3930 3) B138-2053 4) B067-6095				
		Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve				
		BVTK551	1) B6I-0282 x4 2) B7W-4602 x4	a) B160-5436 x4 b) B160-5438 x4	a) B6I-0284 x8 b) B6I-0283 x8	5) B067-6834 x16 6) B1W-5849 x8				
										
Oil Pump		Lift Pump	1) Water Pump 2) Thermostat		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH					
B6I-0253		B201-0877	1) B151-4825 2) B4W-8063		1) B032-9007 2) B150-1217 3) B150-1218					

(1) Flanged Fully Finished Liner. Semi Finished Liner available B6I-0164UF.

(2) To ESN: 6FK10030.

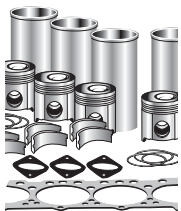
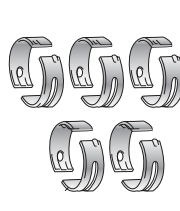
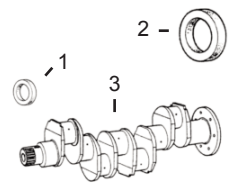
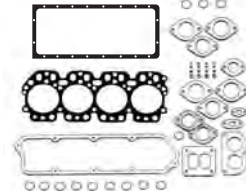
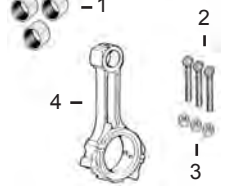
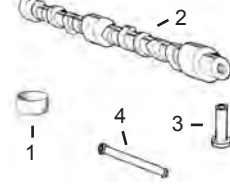
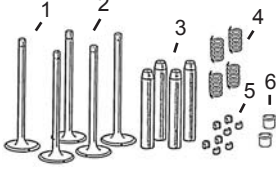
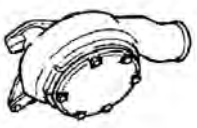
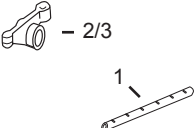
(3) From ESN: 6FK10031.

Engine & Equipment Application CATERPILLAR 3054T INDUSTRIAL ENGINE TURBOCHARGED 4 Cyl Bore: 3.937 in 100.0 mm ESN 6FK1 - UP ENGINE ARRANGEMENT 6I-2216 6I-2221 7E-9559 7E-9560 106-5002 108-0496 108-2783 115-1697					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	BCK553 Consists of: a) B107-2553 b) B112-7020 c) B6I-0164 (1)	B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030	B4P-9944 Std. B4P-9945 .010 B4P-9946 .020 B4P-9947 .030	B032-9090/91 Std. B067-6873/74 .007
	1) BOK503/45° BOK503/30°				
	2) BBK503	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	
	3) Crankshaft Kit	3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
	1) B4W-5359 2a) B4W-5360 (2) 2b) B209-9218 (3) 3) B4P-9948	1) B177-3310 2) B173-9716 3) B126-6671 4) B160-0161 5) B032-9946	1) B7W-2510 x4 2) B067-6883 x8 3) B7W-2505 x8 4) B7W-2514	1) B036-5802 x1 2) B132-3930 3) B138-2053 4) B067-6095	
	Valve Train Kit a) 45° b) 30°	1) Valve, Intake a) 45° b) 30° 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	a) BVTK552 b) BVTK556	1a) B6I-1196 x4 b) B100-4626 x4 2) B7W-4602 x4	a) B160-5436 x4 b) B160-5438 x4	a) B6I-0284 x8 b) B6I-0283 x8	5) B067-6834 x16 6) B1W-5849 x8
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH		
B6I-0912	B201-0877	1) B151-4825 2) B4W-8063	1) B032-9007 2) B150-1217 3) B150-1218		

(1) Flanged Fully Finished Liner. Semi Finished Liner available B6I-0164UF.

(2) To ESN: 6FK10030.

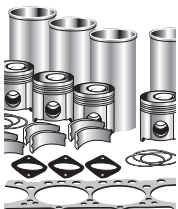
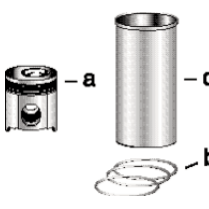
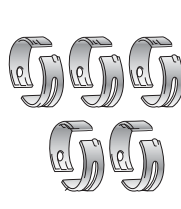
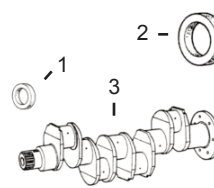
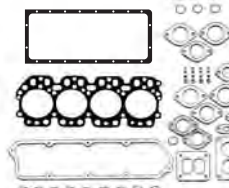
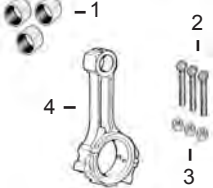
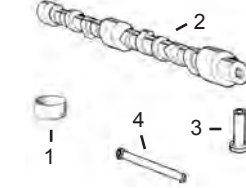
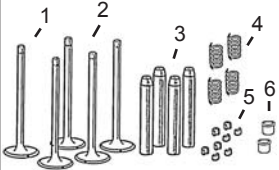
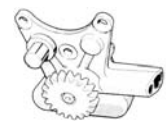
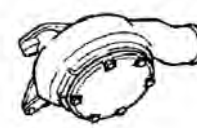
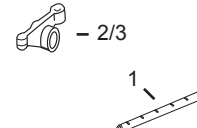
(3) From ESN: 6FK1031.

Engine & Equipment Application											
CATERPILLAR 3054T Used in CAT Wheel Loader Model 914G / IT14G 4 Cyl Bore: 3.937 in 100.00 mm Stroke: 5.00 in 127.00 mm Displacement: 365 in ³ 6 Liter PISTON GRADE K (m) 3135J185 ENGINE ARRANGEMENT 107-4860 107-9665		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		BCK528 Consists of: a) B124-3528 b) B112-7020 c) B111-1815 (1) 4 Per Engine		B067-6869 Std.		B4P-9944 Std.		B032-9090/91 Std.	
		1) BOK528				B033-2379 .010		B4P-9945 .010		B067-6873/74 .007	
		2) BBK528				B033-2380 .020		B4P-9946 .020			
				B033-2381 .030		B4P-9947 .030					
				Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs			
								1) Front Seal		1) Top Gasket Set	
								2) Rear Seal		2) Bottom Gasket	
								3) Crankshaft		3) Valve Cover Gasket	
										4) Head Gasket	
										5) Oil Pan Gasket	
		1) B4W-5359 2) B4W-5360 3) B139-7018		1) B177-3310 2) B173-9716 3) B126-6671 4) B160-0161 5) B032-9946		1) B124-3531 x4 2) B124-3532 x8 3) B124-3533 x8 4) B124-3530		1) B036-5802 x1 2) B132-3930 3) B138-2053 4) B067-6095			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve a) Inner b) Outer		5) Lock, Valve 6) Seal, Valve	
		BVTK556		1) B100-4626 x4 2) B7W-4602 x4		a) B160-5436 x4 b) B160-5438 x4		a) B6I-0284 x8 b) B6I-0283 x8		5) B067-6834 x16 6) B1W-5849 x8	
								Oil Pump		Lift Pump	
B6I-0912		B201-0877		B151-4825		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH		B6I-0912		B201-0877	
						1) B032-9007 2) B150-1217 3) B150-1218					

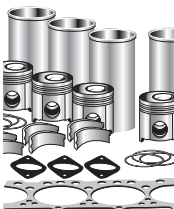
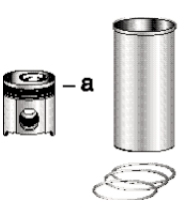
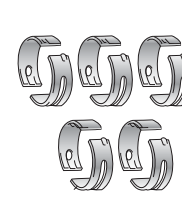
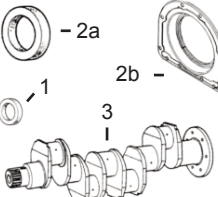
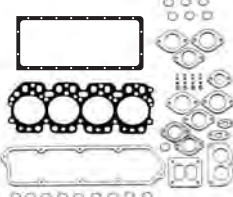
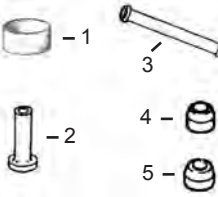
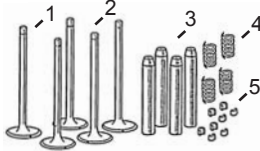
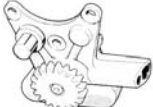
(1) Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF.

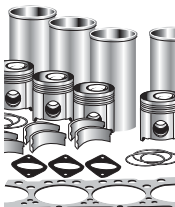
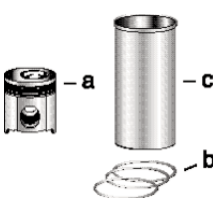
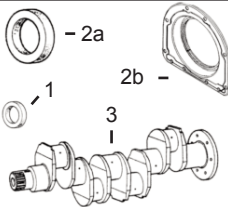
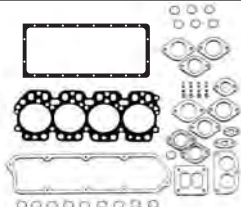
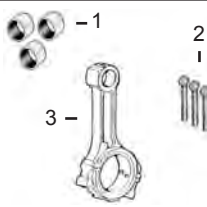
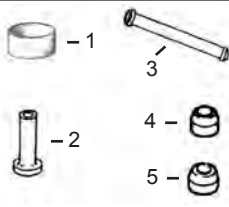
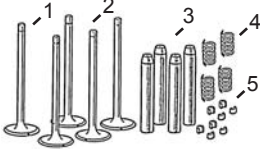
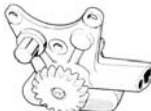
(2) To ESN: 6FK10030.

(3) From ESN: 6FK10031.

Engine & Equipment Application											
CATERPILLAR 3054T		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
Used in CAT Wheel Loader Model 914G / IT14G		2) Basic Engine Kit		BCK529 Consists of:		B067-6869 Std.		B4P-9944 Std.		B032-9090/91 Std.	
4 Cyl		1) BOK529		a) B124-3529		B033-2379 .010		B4P-9945 .010		B067-6873/74 .007	
Bore: 3.937 in 100.00 mm		2) BBK529		b) B112-7020		B033-2380 .020		B4P-9946 .020			
				c) B111-1815 (1)		B033-2381 .030		B4P-9947 .030			
Stroke: 5.00 in 127.00 mm				4 Per Engine		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
Displacement: 365 in ³ 6 Liter											
PISTON GRADE L (m) 3135J186		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Dowel, Con Rod		1) Bushing, Cam			
ENGINE ARRANGEMENT		3) Crankshaft		3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket		4) Con Rod		2) Camshaft 3) Tappet 4) Push Rod			
107-4860 107-9665		1) B4W-5359 2) B4W-5360 3) B139-7018		1) B177-3310 2) B173-9716 3) B126-6671 4) B160-0161 5) B032-9946		1) B124-3531 x4 2) B124-3532 x8 3) B124-3533 x8 4) B124-3530		1) B036-5802 x1 2) B132-3930 3) B138-2053 4) B067-6095			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve a) Inner b) Outer		5) Lock, Valve 6) Seal, Valve	
		BVTK556		1) B100-4626 x4 2) B7W-4602 x4		a) B160-5436 x4 b) B160-5438 x4		a) B6I-0284 x8 b) B6I-0283 x8		5) B067-6834 x16 6) B1W-5849 x8	
											
Oil Pump		Lift Pump		Water Pump		1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH					
B6I-0912		B201-0877		B151-4825		1) B032-9007 2) B150-1217 3) B150-1218					

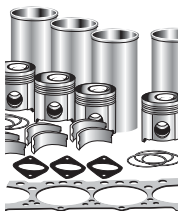
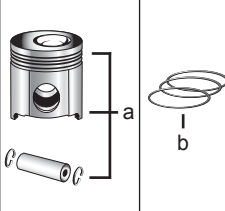
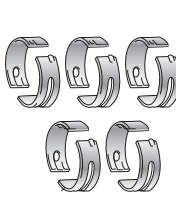
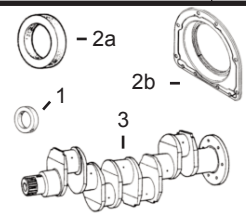
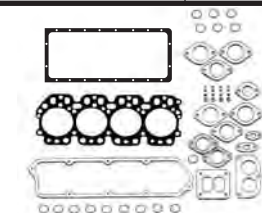
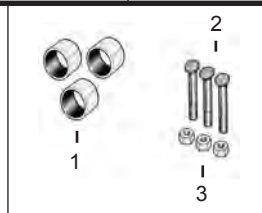
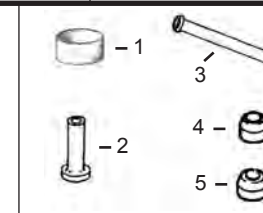
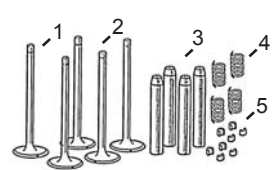
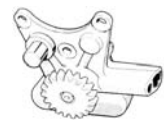
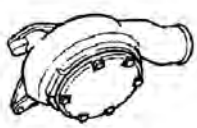
(1) Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF.
(2) To ESN: 6FK10030.
(3) From ESN: 6FK1031.

Engine & Equipment Application											
CATERPILLAR 3054 INDUSTRIAL ENGINE TURBOCHARGED or NATURALLY ASPIRATED 4 Cyl Bore: 3.937 in 100.00 mm ESN 5YS1 - 13498 ENGINE ARRANGEMENT 122-8803 187-8016 122-8804 188-0883 122-8805 220-5713 130-6342 221-8141 130-6343 222-3717 162-9785 223-5544 163-0555 224-4011 163-0949 231-6116 163-1652 234-1969 186-0601 235-0598 187-1696 238-6808 187-8014		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		BCK390 Consists of: a) B152-1390 b) B138-2073 c) B111-1815 (1) 4 Per Engine		B067-6869 Std.		B4P-9944 Std.		B032-9090/91 Std.	
		1) BOK504/45° BOK504/30°				B033-2379 .010 B033-2380 .020 B033-2381 .030		B4P-9945 .010 B4P-9946 .020 B4P-9947 .030		B067-6873/74 .007	
		2) BBK504				Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit				1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod				1) Bushing, Cam	
										2) Tappet	
										3) Push Rod	
										4) Seal, Valve Intake	
		a) BVTK553 b) BVTK554		1a) B138-2052 x4 b) B145-6855 x4 2a) B138-2050 x4 b) B145-6857 x4		a) B185-0882 x4 b) B163-9256 x4		4) B206-4127 x8		5) Lock, Valve	
										5) B147-1979 x16	
		Oil Pump				Lift Pump				Water Pump	
										B6I-0912	
										B201-0877	
										B239-6142	

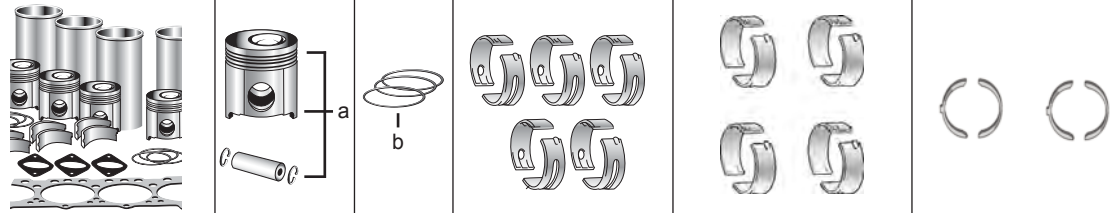
Engine & Equipment Application CATERPILLAR 3054 INDUSTRIAL ENGINE TURBOCHARGED or NATURALLY ASPIRATED 4 Cyl Bore: 3.937 in 100.00 mm ESN 5YS13499 - UP ENGINE ARRANGEMENT 254-0828					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	BCK390 Consists of: a) B152-1390 b) B138-2073 c) B111-1815 (1)	B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030	B225-7781 Std. B233-3788 .010 B233-3789 .020 B233-3790 .030	B032-9090/91 Std. B067-6873/74 .007
	1) BOK505/45° BOK505/30°	4 Per Engine	Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs
	2) BBK505				
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
	3) Crankshaft Kit	3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust	
	1) B4W-5359 2a) B4W-5360 (2) 2b) B209-9218 (3) 3) B254-0252	1) B175-1321 2) B187-4968 3) B200-6374 4) B160-0161 5) B032-9946	1) B225-5438 x4 2) B225-5439 x8 3) B225-5453 (4) (5)	1) B036-5802 x1 2) B138-2053 3) B067-6095 4) B145-6856 x4 5) B145-6858 x4	
		Valve Train Kit a) 45° b) 30°	1) Valve, Intake 2) Valve, Exhaust a) 45° b) 30°	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve
a) BVTK553 b) BVTK554	1a) B138-2052 x4 b) B145-6855 x4 2a) B138-2050 x4 b) B145-6857 x4	a) B185-0882 x4 b) B163-9256 x4	4) B206-4127 x8	5) B147-1979 x16	
					
Oil Pump	Lift Pump	Water Pump			
B6I-0912	B201-0877	B239-6142			

(1) Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF.
(2) To ESN: 5YS11021.
(3) From ESN: 5YS11022.

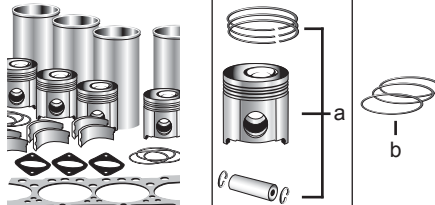
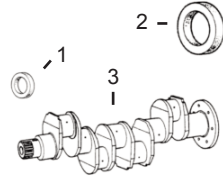
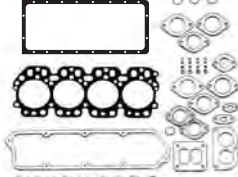
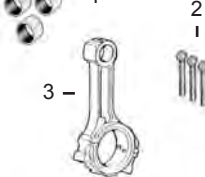
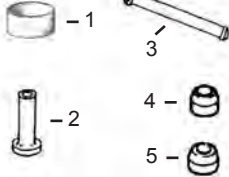
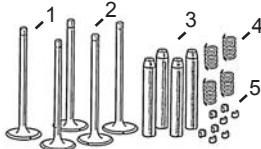
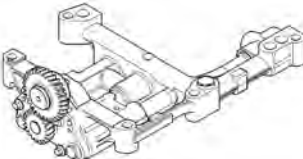
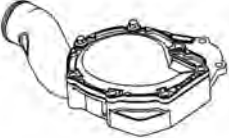
(4) Fracture Split Type.
(5) For machine split rods use Con Rod Bearing **B4P-9944**.

Engine & Equipment Application											
CATERPILLAR 3054B INDUSTRIAL ENGINE NATURALLY ASPIRATED 4 Cyl Bore: 4.055 in 103.00 mm Stroke: 5.00 in 127.00 mm ESN 5MF1 - 10869 ENGINE ARRANGEMENT 185-0462 185-4093 185-1651 185-4388 185-3173 185-4624 185-3197 185-4788 185-3969 185-5465 185-3972 191-5836 185-4092		1) Engine O/H Kit		a) Piston		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		b) Ring Set							
		1) BOK506 Std. BOK508 0.50 BOK509 1.00		a) B185-0104 Std. B185-0106 0.50 B185-0107 1.00		B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030		B4P-9944 Std. B4P-9945 .010 B4P-9946 .020 B4P-9947 .030		B032-9090/91 Std. B067-6873/74 .007	
		2) BBK506 Std. BBK508 0.50 BBK509 1.00		b) B185-0109 Std. B185-0110 0.50 B185-0111 1.00							
				4 Per Engine		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
											
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit		1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gasket 4) Head Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod		1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust			
		1) B4W-5359 2a) B4W-5360 (1) 2b) B209-9218 (2) 3) B4P-9948		1) B187-1290 2) B187-4968 3) B200-6374 4) B185-0885		1) B138-2048 x4 2) B067-6883 x8 3) B7W-2505 x8		1) B036-5802 x1 2) B138-2053 3) B067-6095 4) B145-6856 x4 5) B145-6858 x4			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve		5) Lock, Valve	
		BVTK555		1) B176-3134 x4 2) B176-3137 x4		a) B185-0882 x4 b) B163-9256 x4		4) B176-3139 x8		5) B147-1979 x16	
											
Oil Pump		Lift Pump		Water Pump							
B6I-0253		B201-0877		B239-6142							

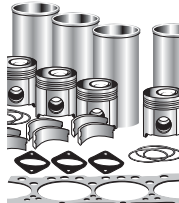
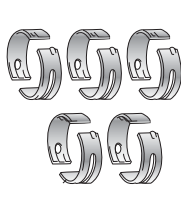
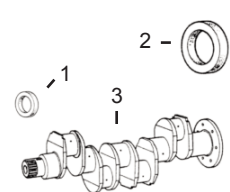
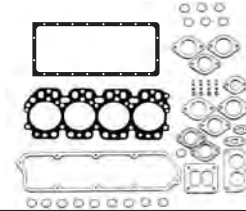
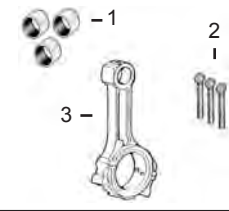
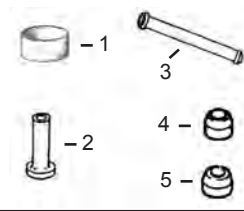
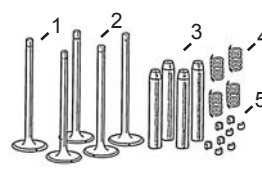
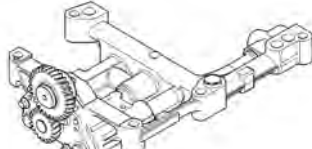
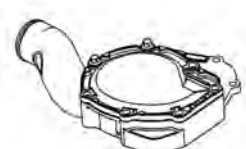
(1) To ESN: 5MF1183.
(2) From ESN: 5MF1184.

Engine & Equipment Application CATERPILLAR 3054B INDUSTRIAL ENGINE NATURALLY ASPIRATED 4 Cyl Bore: 4.055 in 103.00 mm Stroke: 5.00 in 127.00 mm ESN 5MF10870 -UP						
	1) Engine O/H Kit	a) Piston b) Ring Set	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
	2) Basic Engine Kit	a) B185-0104 Std. B185-0106 0.50 B185-0107 1.00 b) B185-0109 Std. B185-0110 0.50 B185-0111 1.00 4 Per Engine	B067-6869 Std. B033-2379 .010 B033-2380 .020 B033-2381 .030 Set of 5 Pairs	B225-7781 Std. B233-3788 .010 B233-3789 .020 B233-3790 .030 Set of 4 Pairs	B032-9090/91 Std. B067-6873/74 .007 Set of 2 Pairs	
	1) BOK507 Std. BOK510 0.50 BOK511 1.00					
	2) BBK507 Std. BBK510 0.50 BBK511 1.00					
	1) Front Seal 2) Rear Seal 3) Crankshaft Kit	1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gasket 4) Head Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod	1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust		
	1) B4W-5359 2a) B4W-5360 (1) 2b) B209-9218 (2) 3) B254-0252	1) B187-1290 2) B187-4968 3) B200-6374 4) B185-0885	1) B225-5438 x4 2) B225-5439 x8 3) B225-5453 (3)	1) B036-5802 x1 2) B138-2053 3) B067-6095 4) B145-6856 x4 5) B145-6858 x4		
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve	
	BVTK555	1) B176-3134 x4 2) B176-3137 x4	a) B185-0882 x4 b) B163-9256 x4	4) B176-3139 x8	5) B147-1979 x16	
	Oil Pump	Lift Pump	Water Pump			
	B6I-0253	B201-0877	B239-6142			

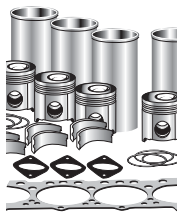
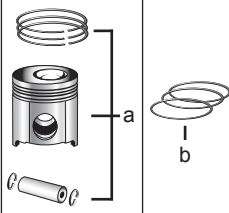
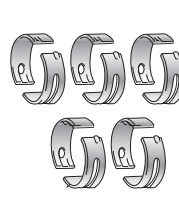
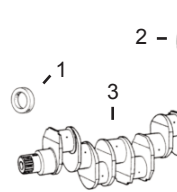
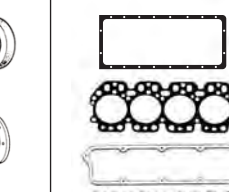
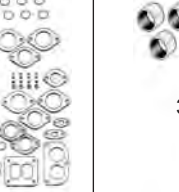
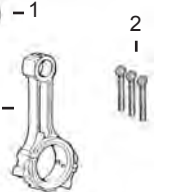
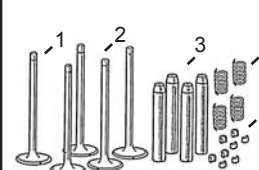
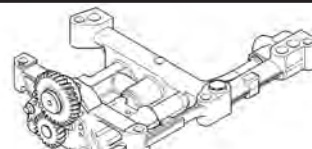
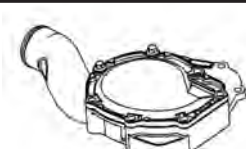
(1) To ESN: 5MF1183.
(2) From ESN: 5MF1184.
(3) Fracture Split Type; Grade J.

Engine & Equipment Application											
CATERPILLAR 3054C/E		1) Engine O/H Kit		a) Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
INDUSTRIAL ENGINE		2) Basic Engine Kit		b) Ring Set							
NATURALLY ASPIRATED		1) BOK512 Std.		a) B233-7232 Std.		B225-7772 Std.		B225-7781 Std.		B032-9090/91 Std.	
4 Cyl		BOK513 0.50		B288-9942 0.50		B233-3784 .010		B233-3788 .010		B067-6873/74 .007	
Bore: 4.133 in		BOK514 1.00		B288-9943 1.00		B233-3785 .020		B233-3789 .020			
Stroke: 5.00 in		2) BBK512 Std.		B233-7231 Std.		B233-3786 .030		B233-3790 .030			
Displacement: 269 in³		BBK513 0.50		B233-7231B 0.50							
4.4 Liter		BBK514 1.00		B233-7231D 1.00							
ESN 3341-UP						Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
ENGINE ARRANGEMENT											
		1) Front Seal		1) Top Gasket Set		1) Bush, Con Rod		1) Bushing, Cam			
		2) Rear Seal		2) Bottom Gasket		2) Bolt, Con Rod		2) Tappet			
		3) Crankshaft Kit		3) Valve Cover Gasket		3) Con Rod		3) Push Rod			
				4) Head Gasket				4) Seal, Valve Intake			
				5) Oil Pan Gasket				5) Seal, Valve Exhaust			
		1) B4W-5359		1) B276-3420		1) B225-5438 x4		1) B232-7440 x1			
		2) B232-7449		2) B233-0333		2) B225-5439 x8		2) B138-2053			
		3) B232-7400		3) B225-6451		3) B225-5453 (2)		3) B067-6095			
				4) B240-7194				4) B252-6438 x4			
				5) B225-6005				5) B254-3954 x4			
		Valve Train Kit		1) Valve, Intake		3) Guide, Valve		4) Spring, Valve		5) Lock, Valve	
				2) Valve, Exhaust		(Intake & Exhaust)					
		BVTK557		1) B225-5495 x4		B185-0882 x8		4) B225-5496 x8		5) B147-1979 x16	
				2) B225-5499 x4							
											
Oil Pump				Water Pump				Water Pump Gasket			
B225-8329 (1)				B225-8016				B225-8019			

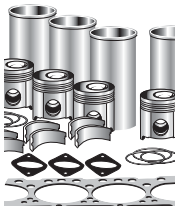
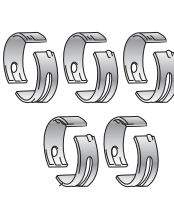
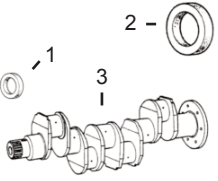
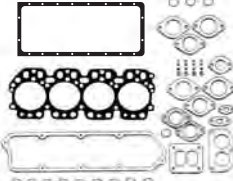
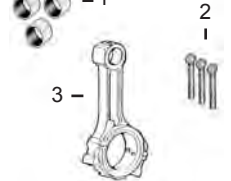
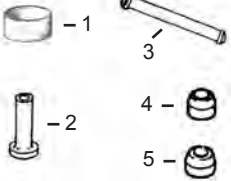
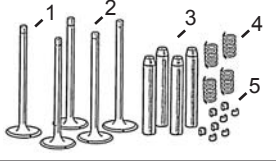
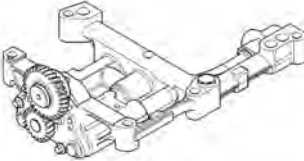
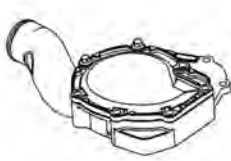
(1) Not to be used on Engines with Balancer Units.
(2) Grade J.

Engine & Equipment Application											
CATERPILLAR 3054C/E INDUSTRIAL ENGINE NATURALLY ASPIRATED 4 Cyl Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter ESN 3341-UP ENGINE ARRANGEMENT 207-1101 207-1102		1) Engine O/H Kit		a) Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		b) Ring Set							
		1) BOK515 Std.		a) B233-7232 Std.		B225-7772 Std.		B225-7781 Std.		B032-9090/91 Std.	
		BOK516 0.50		B288-9942 0.50		B233-3784 .010		B233-3788 .010		B067-6873/74 .007	
		BOK517 1.00		B288-9943 1.00		B233-3785 .020		B233-3789 .020			
		4 Per Engine				B233-3786 .030		B233-3790 .030			
		2) BBK515 Std.		b) B233-7231 Std.		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
		BBK516 0.50		B233-7231B 0.50							
		BBK517 1.00		B233-7231D 1.00							
											
		1) Front Seal		1) Top Gasket Set		1) Bush, Con Rod		1) Bushing, Cam			
		2) Rear Seal		2) Bottom Gasket		2) Bolt, Con Rod				2) Tappet	
		3) Crankshaft Kit		3) Valve Cover Gasket		3) Con Rod				3) Push Rod	
				4) Head Gasket						4) Seal, Valve Intake	
				5) Oil Pan Gasket						5) Seal, Valve Exhaust	
		1) B4W-5359		1) B276-3420		1) B225-5438 x4		1) B232-7440 x1			
		2) B232-7449		2) B237-5942		2) B225-5439 x8		2) B138-2053			
		3) B232-7400		3) B225-6451		3) B225-5453 (2)		3) B067-6095			
				4) B240-7194				4) B252-6438 x4			
				5) B237-5932				5) B254-3954 x4			
				Valve Train Kit		1) Valve, Intake		4) Spring, Valve		5) Lock, Valve	
						2) Valve, Exhaust					
				BVTK557		3) Guide, Valve (Intake & Exhaust)					
				1) B225-5495 x4		4) B225-5496 x8					
				2) B225-5499 x4		5) B147-1979 x16					
											
		Oil Pump		Water Pump		Water Pump Gasket					
		B225-8329 (1)		B225-8016		B225-8019					

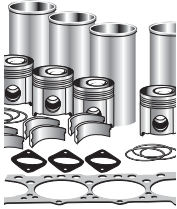
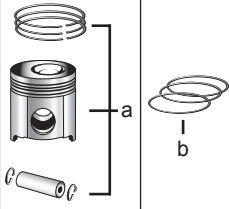
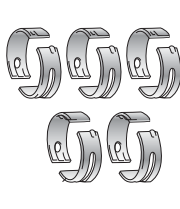
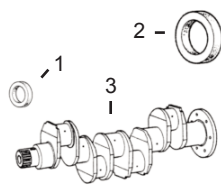
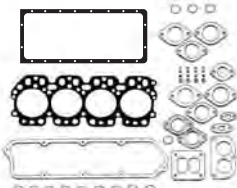
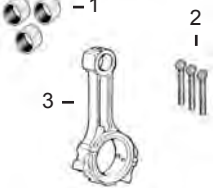
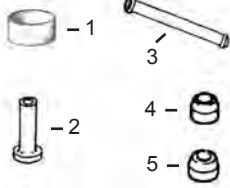
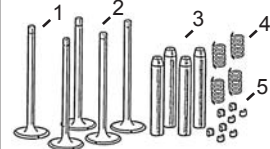
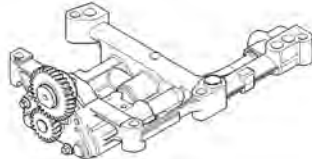
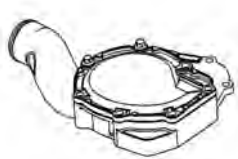
(1) Not to be used on Engines with Balancer Units.
(2) Grade J.

Engine & Equipment Application CATERPILLAR 3054C/E INDUSTRIAL ENGINE TURBOCHARGED 4 Cyl Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in³ 4.4 Liter ESN 3341 - UP ENGINE ARRANGEMENT 177-9752 241-8582 207-1175 241-8584 213-0296 241-8585 219-7590 241-8586 219-7591 244-3103 223-6467 244-3105 223-6511 256-4720 223-7570 257-8359 230-5539 257-8362 231-0178 257-8364 231-0179 257-8369 231-0180 257-8374 231-0181 257-8375 231-0182 257-8376 231-0183 257-8380 231-0184 257-8381 231-0186 270-0073 232-4502 307-2279						
	1) Engine O/H Kit	a) Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set	
	2) Basic Engine Kit	b) Ring Set				
	1) BOK518 Std. BOK519 0.50 BOK520 1.00	a) B225-5437 Std. B288-1394 0.50 B288-1395 1.00 4 Per Engine				
	2) BBK518 Std. BBK519 0.50 BBK520 1.00	b) B225-5436 Std. B225-5436B 0.50 B225-5436D 1.00				
			Set of 5 Pairs	Set of 4 Pairs	Set of 2 Pairs	
						
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam		
	3) Crankshaft Kit	3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust		
	1) B4W-5359 2) B232-7449 3) B232-7400	1) B276-3420 2) B233-0333 (3) 3) B225-6451 4) B240-7194 5) B225-6005 (3)	1) B225-5438 x4 2) B225-5439 x8 3) B225-5453 (2)	1) B232-7440 x1 2) B138-2053 3) B067-6095 4) B252-6438 x4 5) B254-3954 x4		
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve	
	BVTK557	1) B225-5495 x4 2) B225-5499 x4	B185-0882 x8	4) B225-5496 x8	5) B147-1979 x16	
						
Oil Pump		Water Pump		Water Pump Gasket		
B225-8329 (1)		B225-8016		B225-8019		

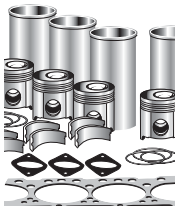
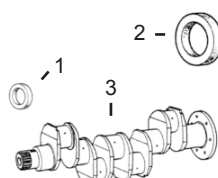
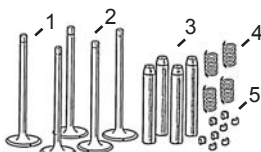
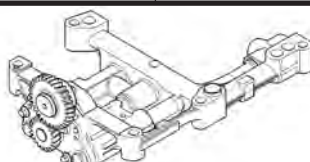
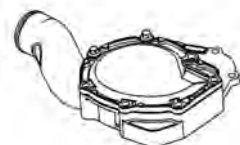
(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Industrial Application.

Engine & Equipment Application											
CATERPILLAR 3054C/E		1) Engine O/H Kit		a) Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
TURBOCHARGED		2) Basic Engine Kit		b) Ring Set							
4 Cyl		2) BOK521 Std. BOK522 0.50 BOK523 1.00		a) B225-5437 Std. B288-1394 0.50 B288-1395 1.00 4 Per Engine		B225-7772 Std. B233-3784 .010 B233-3785 .020 B233-3786 .030		B225-7781 Std. B233-3788 .010 B233-3789 .020 B233-3790 .030		B032-9090/91 Std. B067-6873/74 .007	
Bore: 4.133 in 105.00 mm		2) BBK521 Std. BBK522 0.50 BBK523 1.00		b) B225-5436 Std. B225-5436B 0.50 B225-5436D 1.00		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
Stroke: 5.00 in 127.00 mm											
Displacement: 269 in ³ 4.4 Liter		1) Front Seal 2) Rear Seal 3) Crankshaft Kit		1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod		1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust			
ESN 3341-UP		1) B4W-5359 2) B232-7449 3) B232-7400		1) B276-3420 2) B237-5942 (3) 3) B225-6451 4) B240-7194 5) B237-5932 (3)		1) B225-5438 x4 2) B225-5439 x8 3) B225-5453 (2)		1) B232-7440 x1 2) B138-2053 3) B067-6095 4) B252-6438 x4 5) B254-3954 x4			
ENGINE ARRANGEMENT		207-1097 207-1098 207-1099 207-1100 207-1103									
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve	
		BVTK557		1) B225-5495 x4 2) B225-5499 x4		B185-0882 x8		4) B225-5496 x8		5) B147-1979 x16	
											
Oil Pump				Water Pump				Water Pump Gasket			
B225-8329 (1)				B225-8016				B225-8019			

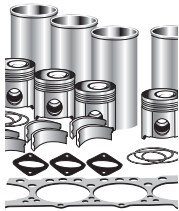
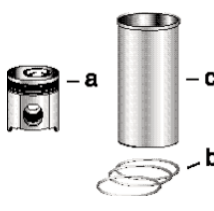
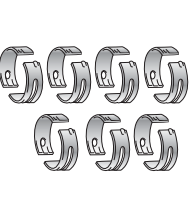
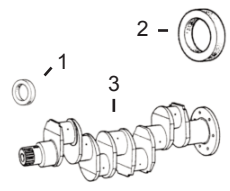
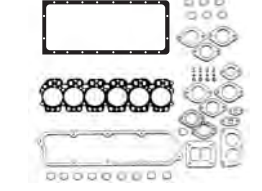
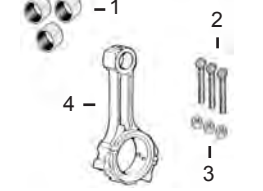
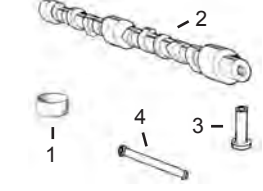
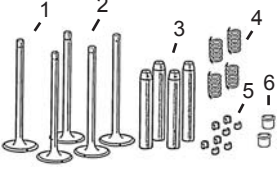
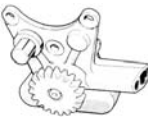
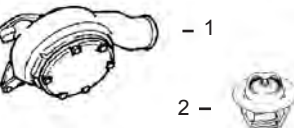
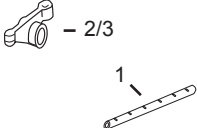
(1) Not to be used on Engines with Balancer Units.
 (2) Grade J.
 (3) Non Industrial Application.

Engine & Equipment Application CATERPILLAR 3054C/E INDUSTRIAL ENGINE NATURALLY ASPIRATED 4 Cyl ESN CRS1-UP Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter ENGINE ARRANGEMENT 234-3058 234-3059											
		1) Engine O/H Kit		a) Piston & Ring Kit b) Ring Set		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		a) B233-7232 Std. B288-9942 0.50 B288-9943 1.00 4 Per Engine b) B233-7231 Std. B233-7231B 0.50 B233-7231D 1.00		B225-7772 Std. B233-3784 .010 B233-3785 .020 B233-3786 .030		B225-7781 Std. B233-3788 .010 B233-3789 .020 B233-3790 .030		B032-9090/91 Std. B067-6873/74 .007	
		1) BOK530 Std. BOK531 0.50 BOK532 1.00 2) BBK530 Std. BBK531 0.50 BBK532 1.00				Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
											
		1) Front Seal 2) Rear Seal 3) Crankshaft Kit		1) Top Gasket Set 2) Bottom Gasket 3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Con Rod		1) Bushing, Cam 2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust			
		1) B4W-5359 2) B232-7449 3) B232-7400		1) B276-3420 2) B272-2232 3) B225-6451 4) B240-7194 5) B225-6005		1) B225-5438 x4 2) B225-5439 x8 3) B225-5453 (2)		1) B232-7440 x1 2) B138-2053 3) B067-6095 4) B252-6438 x4 5) B254-3954 x4			
				Valve Train Kit BVTK557		1) Valve, Intake 2) Valve, Exhaust 3) Guide, Valve (Intake & Exhaust) 4) Spring, Valve 5) Lock, Valve					
				1) B225-5495 x4 2) B225-5499 x4		B185-0882 x8		4) B225-5496 x8		5) B147-1979 x16	
											
		Oil Pump		Water Pump				Water Pump Gasket			
		B225-8329 (1)		B225-8016				B225-8019			

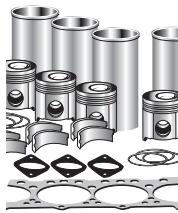
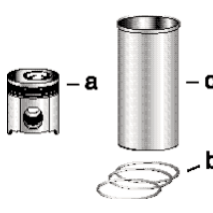
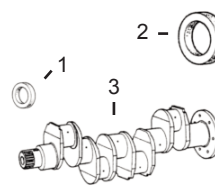
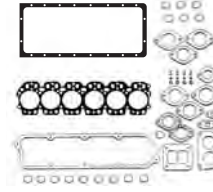
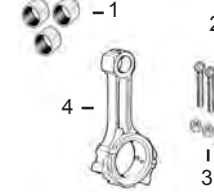
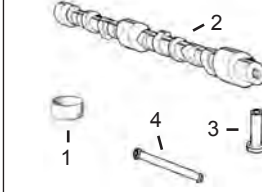
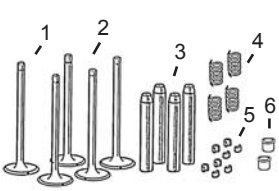
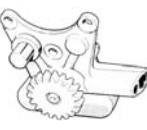
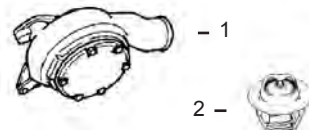
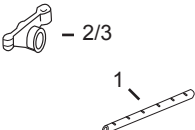
(1) Not to be used on Engines with Balancer Units.
(2) Grade J.

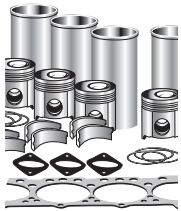
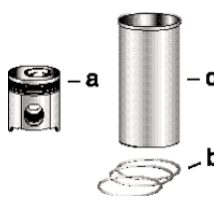
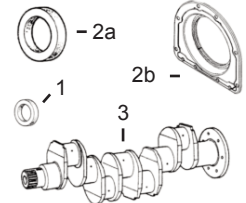
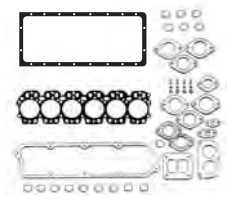
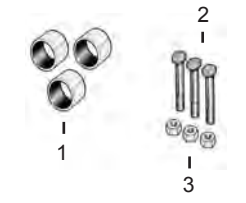
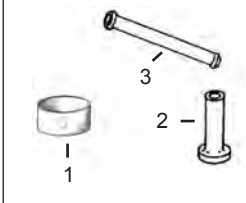
Engine & Equipment Application											
CATERPILLAR 3054C/E INDUSTRIAL ENGINE TURBOCHARGED 4 Cyl ESN CRX107-UP, BLN, FDP Bore: 4.133 in 105.00 mm Stroke: 5.00 in 127.00 mm Displacement: 269 in ³ 4.4 Liter ENGINE ARRANGEMENT 176-3180 245-6842 194-9477 234-3060 234-3061 273-3610 273-3611 323-5725		1) Engine O/H Kit		a) Piston & Ring Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		b) Ring Set							
		1) BOK533 Std. BOK534 0.50 BOK535 1.00		a) B225-5437 Std. B288-1394 0.50 B288-1395 1.00 4 Per Engine		B225-7772 Std. B233-3784 .010 B233-3785 .020 B233-3786 .030		B225-7781 Std. B233-3788 .010 B233-3789 .020 B233-3790 .030		B032-9090/91 Std. B067-6873/74 .007	
		2) BBK533 Std. BBK534 0.50 BBK535 1.00		b) B225-5436 Std. B225-5436B 0.50 B225-5436D 1.00		Set of 5 Pairs		Set of 4 Pairs		Set of 2 Pairs	
		1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod		1) Bushing, Cam			
		3) Crankshaft Kit		3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket		3) Con Rod		2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust			
		1) B4W-5359 2) B232-7449 3) B232-7400		1) B276-3420 2) B272-2232 3) B225-6451 4) B240-7194 5) B225-6005		1) B225-5438 x4 2) B225-5439 x8 3) B225-5453 (2)		1) B232-7440 x1 2) B138-2053 3) B067-6095 4) B252-6438 x4 5) B254-3954 x4			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve (Intake & Exhaust)		4) Spring, Valve		5) Lock, Valve	
		BVTK557		1) B225-5495 x4 2) B225-5499 x4		B185-0882 x8		4) B225-5496 x8		5) B147-1979 x16	
											
Oil Pump		Water Pump				Water Pump Gasket					
B225-8329 (1)		B225-8016				B225-8019					

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.

Engine & Equipment Application CATERPILLAR 3056 INDUSTRIAL ENGINE NATURALLY ASPIRATED 6 Cyl Bore: 3.937 in 100.0 mm ESN 1ML1-UP ENGINE ARRANGEMENT 6I-2217 6I-2222 108-0497					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	BCK264 Consists of: a) B135-0264 b) B146-1780 c) B6I-0164 (1) 6 Per Engine	B7W-4589 Std. B7W-4590 .010 B7W-4591 .020 B7W-4592 .030 Set of 7 Pairs	B7W-4816 Std. B7W-4817 .010 B7W-4818 .020 B7W-4819 .030 Set of 6 Pairs	B032-9090/91 Std. B067-6873/74 .007 Set of 2 Pairs
	1) BOK700				
	2) BBK700				
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
	1) B4W-5359 2) B4W-5360 3) B193-0159	1) B103-0081 2) B103-0080 3) B6I-3875	1) B067-6158 x6 2) B067-6883 x12 3) B7W-2505 x12 4) B067-6879	1) B036-5802 x1 2) B6I-4353 3) B138-2053 4) B067-6095	
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	BVTK750	1) B6I-0282 x6 2) B7W-4602 x6	a) B160-5436 x6 b) B160-5438 x6	a) B6I-0284 x12 b) B6I-0283 x12	5) B067-6834 x24 6) B1W-5849 x12
	Oil Pump		Lift Pump		
				1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH
	B100-3717	B132-9447		1) B149-0539 2) B4W-8063	1) N/A 2) B150-1217 3) B150-1218

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B6I-0164UF**.

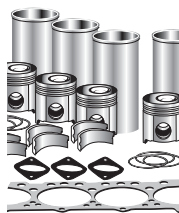
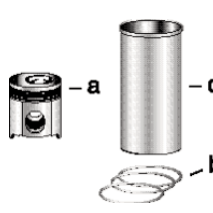
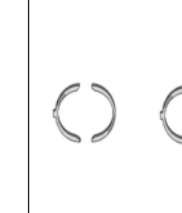
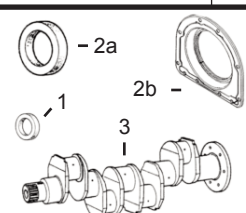
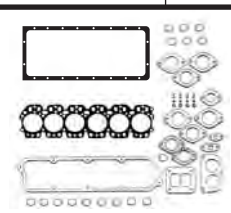
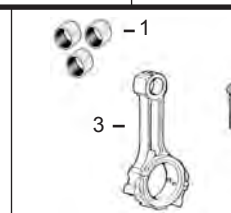
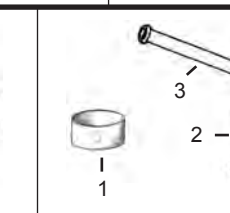
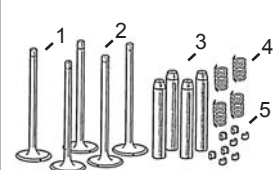
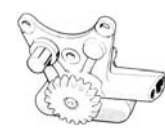
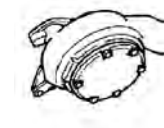
Engine & Equipment Application CATERPILLAR 3056T INDUSTRIAL ENGINE TURBOCHARGED 6 Cyl Bore: 3.937 in 100.0 mm ESN 1ML1-UP ENGINE ARRANGEMENT 6I-2218 6I-2219 6I-2223 6I-2224 103-8804					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	BCK553 Consists of: a) B107-2553 b) B112-7020 c) B6I-0164 (1)	B7W-4589 Std. B7W-4590 .010 B7W-4591 .020 B7W-4592 .030	B7W-4816 Std. B7W-4817 .010 B7W-4818 .020 B7W-4819 .030	B032-9090/91 Std. B067-6873/74 .007
	1) BOK701/45° BOK701/30°	6 Per Engine	Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
	2) BBK701				
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam	
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
	1) B4W-5359 2) B4W-5360 3) B193-0159	1) B103-0081 2) B103-0080 3) B6I-3875	1) B7W-2510 x6 2) B067-6883 x12 3) B7W-2505 x12 4) B7W-2514	1) B036-5802 x1 2) B6I-4353 3) B138-2053 4) B067-6095	
		Valve Train Kit a) 45° b) 30°	1) Valve, Intake a) 45° b) 30° 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer
	a) BVTK751 b) BVTK754	1a) B6I-1196 x6 b) B100-4626 x6 2) B7W-4602 x6	a) B160-5436 x6 b) B160-5438 x6	a) B6I-0284 x12 b) B6I-0283 x12	5) B067-6834 x24 6) B1W-5849 x12
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH		
B100-3717	B132-9447	1) B149-0539 2) B4W-8063	1) N/A 2) B150-1217 3) B150-1218		

Engine & Equipment Application											
CATERPILLAR 3056		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
INDUSTRIAL ENGINE		2) Basic Engine Kit		BCK390 Consists of:		B7W-4589 Std.		B7W-4816 Std.		B032-9090/91 Std.	
TURBOCHARGED or NATURALLY ASPIRATED		1) BOK702/45° BOK702/30°		a) B152-1390 b) B138-2073 c) B111-1815 (1)		B7W-4590 .010 B7W-4591 .020 B7W-4592 .030		B7W-4817 .010 B7W-4818 .020 B7W-4819 .030		B067-6873/74 .007	
6 Cyl		2) BBK702		6 Per Engine		Set of 7 Pairs		Set of 6 Pairs		Set of 2 Pairs	
Bore: 3.937 in 100.00 mm											
ESN 7MS1 - 2098											
ENGINE ARRANGEMENT											
		1) Front Seal		1) Top Gasket Set		1) Bush, Con Rod		1) Bushing, Cam			
		2) Rear Seal		2) Bottom Gasket		2) Bolt, Con Rod		2) Tappet			
		3) Crankshaft Kit		3) Head Gasket		3) Nut, Con Rod		3) Push Rod			
								4) Seal, Valve Intake			
								5) Seal, Valve Exhaust			
		1) B4W-5359		1) B187-1963		1) B138-2048 x6		1) B036-5802 x1			
		2a) B4W-5360 (2)		2) B232-3073		2) B067-6883 x12		2) B138-2053			
		2b) B209-9218 (3)		3) B6I-3875		3) B7W-2505 x12		3) B067-6095			
		3) B193-0159						4) B145-6856 x6			
								5) B145-6858 x6			

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.

(2) To ESN: 7MS1285.

(3) From ESN: 7MS1286.

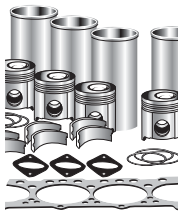
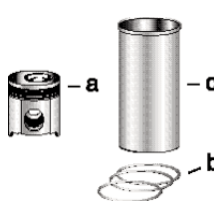
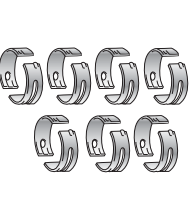
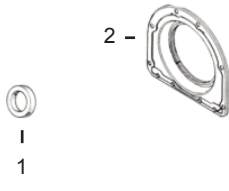
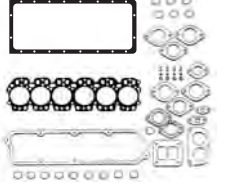
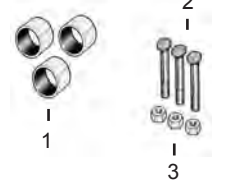
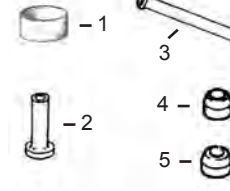
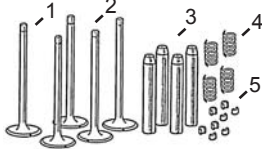
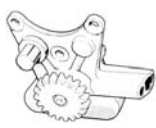
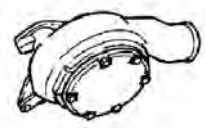
Engine & Equipment Application													
CATERPILLAR 3056 INDUSTRIAL ENGINE TURBOCHARGED or NATURALLY ASPIRATED 6 Cyl Bore: 3.937 in 100.00 mm ESN 7MS2099 - UP ENGINE ARRANGEMENT 163-0101 205-8747 163-0870 206-7850 173-9705 208-5963 183-5132 218-4670 184-5444 223-1158 185-3600 234-9528 187-1338 236-6617 194-2050 239-6060 196-5004 APPLICATIONS: 924G Wheeled Loader	1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set				
	2) Basic Engine Kit		BCK390 Consists of: a) B152-1390 b) B138-2073 c) B111-1815 (1)		B7W-4589 Std. B7W-4590 .010 B7W-4591 .020 B7W-4592 .030		B236-4397 Std. B236-4397A .010 B236-4397B .020 B236-4397C .030		B032-9090/91 Std. B067-6873/74 .007				
	1) BOK703/45° BOK703/30°		6 Per Engine		Set of 7 Pairs		Set of 6 Pairs		Set of 2 Pairs				
	2) BBK703												
													
1) Front Seal 2) Rear Seal		1) Top Gasket Set 2) Bottom Gasket		1) Bush, Con Rod 2) Bolt, Con Rod		1) Bushing, Cam							
3) Crankshaft Kit		3) Head Gasket		3) Con Rod		2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust							
1) B4W-5359 2a) B4W-5360 (2) 2b) B209-9218 (3) 3) B193-0159		1) B187-1963 2) B232-3073 3) B61-3875		1) B225-5438 x6 2) B225-5439 x12 3) B225-5453 (4)		1) B036-5802 x1 2) B138-2053 3) B067-6095 4) B145-6856 x6 5) B145-6858 x6							
		Valve Train Kit a) 45° b) 30°		1) Valve, Intake 2) Valve, Exhaust a) 45° b) 30°		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve		5) Lock, Valve			
a) BVTK752 b) BVTK753		1a) B138-2052 x6 b) B145-6855 x6 2a) B138-2050 x6 b) B145-6857 x6		a) B185-0882 x6 b) B163-9256 x6		4) B206-4127 x12		5) B147-1979 x24					
													
Oil Pump		Lift Pump		1) Water Pump 2) Thermostat									
B100-3717		B132-9447		1) B239-6142 2) B4W-8063									

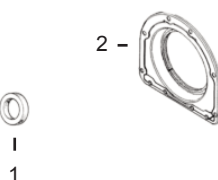
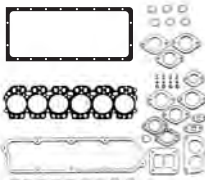
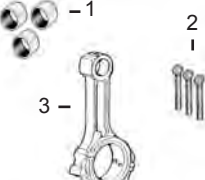
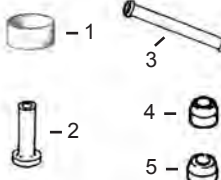
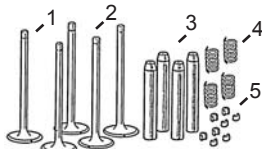
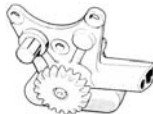
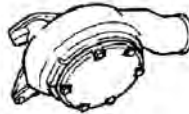
(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.

(2) To ESN: 7MS1285.

(3) From ESN: 7MS1286.

(4) Grade J; Fracture Split Type ESN 7MS2099-UP.

Engine & Equipment Application											
CATERPILLAR 3056E INDUSTRIAL ENGINE TURBOCHARGED 6 Cyl Bore: 3.937 in 100.00 mm Stroke: 5.00 in 127.00 mm Compression Ratio: 17.25:1 ESN CPT1 - 843 ENGINE ARRANGEMENT 176-3165 207-1166 176-3166 254-2236 179-1797 295-9745 188-5096 297-4053 188-5098 297-4054 206-2745 302-0524 207-1121 302-0525 APPLICATIONS: 930G Wheeled Loader CS583E Vibratory Compactor		1) Engine O/H Kit		Piston-Liner Kit		Main Bearing Set		Con Rod Bearing Set		Thrust Washer Set	
		2) Basic Engine Kit		BCK323 Consists of: a) B216-8323 b) B217-1573 c) B111-1815 6 Per Engine		B7W-4589 Std. B7W-4590 .010 B7W-4591 .020 B7W-4592 .030 Set of 7 Pairs		B7W-4816 Std. B7W-4817 .010 B7W-4818 .020 B7W-4819 .030 Set of 6 Pairs		B032-9090/91 Std. B067-6873/74 .007 Set of 2 Pairs	
		1) BOK704									
		2) BBK704									
								1) Front Seal		1) Top Gasket Set	
								2) Rear Seal		2) Bottom Gasket	
										3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	
								1) B4W-5359 2) B209-9218		1) B216-9612 2) B236-6930 3) B216-9604 4) B240-0205 5) B6I-4681	
								1) B036-5802 x1 2) B138-2053 3) B067-6095 4) B145-6856 x6 5) B145-6858 x6			
		Valve Train Kit		1) Valve, Intake 2) Valve, Exhaust		3) Guide, Valve a) Intake b) Exhaust		4) Spring, Valve		5) Lock, Valve	
		BVTK755		1) B145-6855 x6 2) B138-2050 x6		a) B185-0882 x6 b) B163-9256 x6		4) B206-4127 x12		5) B147-1979 x24	
											
Oil Pump		Lift Pump		Water Pump							
B216-8625		B216-9043		B234-6110							

Engine & Equipment Application CATERPILLAR 3056E INDUSTRIAL ENGINE TURBOCHARGED 6 Cyl Bore: 3.937 in 100.00 mm Stroke: 5.00 in 127.00 mm Compression Ratio: 17.25:1 ESN CPT844 - UP ENGINE ARRANGEMENT 176-3165 207-1166 176-3166 254-2236 179-1797 295-9745 188-5096 297-4053 188-5098 297-4054 206-2745 302-0524 207-1121 302-0525 APPLICATIONS: 930G Wheeled Loader CS583E Vibratory Compactor					
	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	BCK323 Consists of: a) B216-8323 b) B217-1573 c) B111-1815 (1) 6 Per Engine	B7W-4589 Std.	B236-4397 Std.	B032-9090/91 Std.
	1) BOK705		B7W-4590 .010	B236-4397A .010	B067-6873/74 .007
	2) BBK705		B7W-4591 .020	B236-4397B .020	
			B7W-4592 .030	B236-4397C .030	
			Set of 7 Pairs	Set of 6 Pairs	Set of 2 Pairs
					
	1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam	
		3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust	
	1) B4W-5359 2) B209-9218	1) B216-9612 2) B236-6930 3) B216-9604 4) B240-0205 5) B6I-4681	1) B225-5438 x6 2) B225-5439 x12 3) B225-5453 (2)	1) B036-5802 x1 2) B138-2053 3) B067-6095 4) B145-6856 x6 5) B145-6858 x6	
		Valve Train Kit BVTK755	1) Valve, Intake 2) Valve, Exhaust 3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve
		1) B145-6855 x6 2) B138-2050 x6	a) B185-0882 x6 b) B163-9256 x6	4) B206-4127 x12	5) B147-1979 x24
					
Oil Pump		Lift Pump		Water Pump	
B216-8625		B216-9043		B234-6110	

(1) Flanged Fully Finished Liner. Semi Finished Liner available B111-1815UF.

(2) Fracture Split Type; Grade J.

Miscellaneous Parts

Available from Maxiforce

Part Number	Description
B033-7687	Starter Motor Ring Gear (126 Teeth)
B7W-6247	Starter Motor Ring Gear (115 Teeth)
B186-2374	Starter Motor Ring Gear (122 Teeth)
B194-5390	Turbocharger Gasket
B225-6820	Oil Cooler Housing Gasket
B225-8282	Timing Cover Gasket
B225-8287	Timing Cover Gasket
B225-8536	Exhaust Manifold Gasket
B226-8766	Timing Cover Gasket

Introduction to Yanmar® Section

Engine models covered by this User's Guide

<i>ENGINE MODEL</i>	<i>COMMENTS</i>	<i>BORE</i>	<i>PAGE</i>
3TNE84D	Equivalent to KOMATSU 3D84E-1FB, 2FB, & 3FB	84 mm	<u>Y01</u>
4TNE84D	Equivalent to KOMATSU 4D84E-3FB	84 mm	<u>Y02</u>
4TNE84T		84 mm	<u>Y03</u>
3TNE88		88 mm	<u>Y04</u>
4TNE88		88 mm	<u>Y05</u>
4TNE106D	Equivalent to KOMATSU 4D106	106 mm	<u>Y06</u>
4TNE106T	Equivalent to KOMATSU 4D106T	106 mm	<u>Y07</u>
3TNV84/T		84 mm	<u>Y08</u>
4TNV84		84 mm	<u>Y09</u>
4TNV84T		84 mm	<u>Y10</u>
3TNV88		88 mm	<u>Y11</u>
4TNV88		88 mm	<u>Y12</u>
4TNV106D		106 mm	<u>Y13</u>
4TNV106T		106 mm	<u>Y14</u>

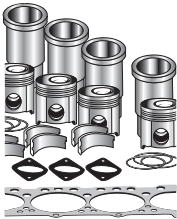
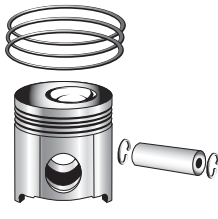
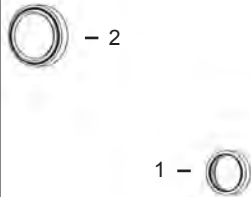
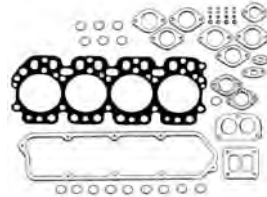
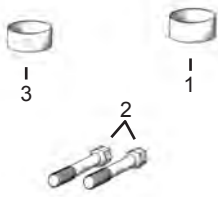
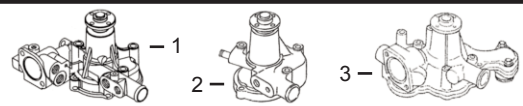
YANMAR engines are OS (Original Suppliers) to several OEM'S (Original Equipment Manufacturers) as:

Broadcrown	John Deere	Onan	Volvo
Carrier	Kobelco	Takehuchi	
Cub Cadet	Kohler	Thermo King	
Ingersoll Rand	Komatsu	Vermeer	

Maxiforce Engine Kit Composition for Yanmar® Engine Applications

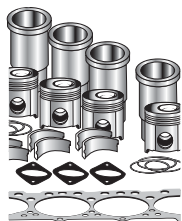
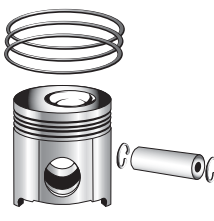
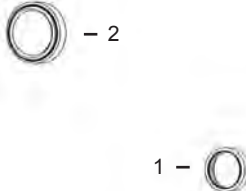
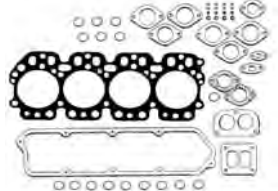
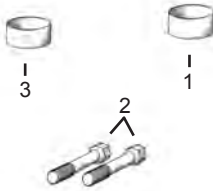
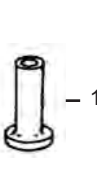
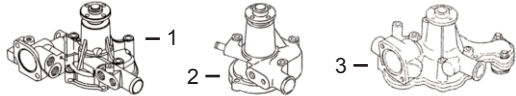
YOK: Engine Overhaul Kits Include: All required pistons, pins and retainers, main and con rod bearing sets, thrust washer sets, crankshaft seals, complete overhaul gasket set, and liquid gasket.

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YANMAR Engine & Equipment Model 4TNE84D and KOMATSU 4D84E-3FB Bore: 3.30 in 84.00 mm Stroke: 3.54 in 90.00 mm					
	Engine O/H Kit	Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers
	YOK4TNE84D	Y129002-22090 Std.	Y129001-02931 Std.	Y129150-23601 Std.	Y129150-02931
	YOK4TNE84D/25	Y129002-22910 0.25	Y129150-02871 0.25	Y129150-23611 0.25	
		See note (1) below			
		Use 4	Use 5	Use 4	Set of 4
					
	1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet	
		2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket			
	1) Y129795-01800 2) Y129795-01780	1) YMGS4TNE84 2) Y129408-01330 3) Y977770-1207F 4) Y129550-11310	1) Y129100-23910 x4 2) Y121550-23200 x8 3) Y129795-02412 x1	1) Y129150-14200 x8	
	Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
	Y129100-11100 x4	Y129100-11130 x4	1) Y120130-11860 x4 2) Y129150-11810 x4	1) Y27310-080001 x16 2) Y124460-11340 x4 3) Y121400-11340 x4	Y129795-11120 x8
					
Thermostat	Oil Pump	Lift Pump	Water Pump	Repair Sleeve	
Y129155-49801	Y129407-32000	Y129100-52101-Z	1) Y129001-42004 (2) 2) Y129100-42004 (2) 3) Y129263-42000 (2)	84RS	

(1) Rings only to be used with **MAXIFORCE PISTONS (ALFIN)**.

(2) Check your application for proper usage.

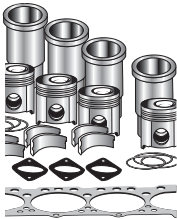
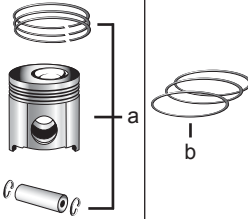
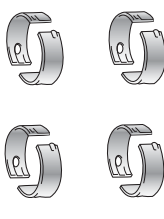
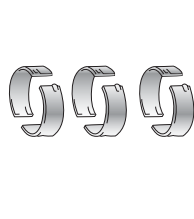
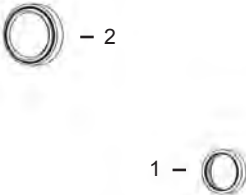
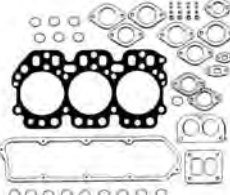
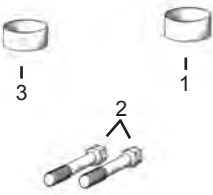
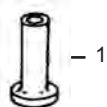
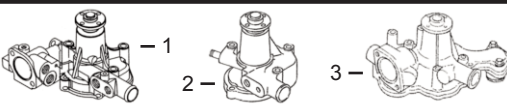
YANMAR Engine & Equipment Model 4TNE84T						
		Engine O/H Kit	Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers
Bore: 3.30 in 84.00 mm Stroke: 3.54 in 90.00 mm	YOK4TNE84T	Y129002-22090 Std.	Y129001-02931 Std.	Y129150-23601 Std.	Y129150-02931	
	YOK4TNE84T/25	Y129002-22910 0.25	Y129150-02871 0.25	Y129150-23611 0.25		
		See note (1) below				
		Use 4	Use 5	Use 4	Set of 4	
						
1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet
		2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket				
1) Y129795-01800 2) Y129795-01780		1) YMGS4TNE84 2) Y129408-01330 3) Y977770-1207F 4) Y129550-11310		1) Y129100-23910 x4 2) Y121550-23200 x8 3) Y129795-02412 x1		1) Y129150-14200 x8
		Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
		Y129100-11100 x4	Y129100-11130 x4	1) Y120130-11860 x4 2) Y129150-11810 x4	1) Y27310-080001 x16 2) Y124460-11340 x4 3) Y121400-11340 x4	Y129795-11120 x8
						
Thermostat		Oil Pump	Lift Pump	Water Pump		Repair Sleeve
Y129155-49801	Y129407-32000 (2) Y129418-32000 (3)	Y129100-52101-Z	1) Y129001-42004 (4) 2) Y129100-42004 (4) 3) Y129263-42000 (4)		84RS	

(1) Rings only to be used with **MAXIFORCE PISTONS (ALFIN)**.

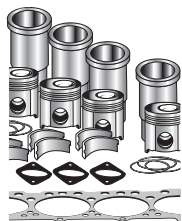
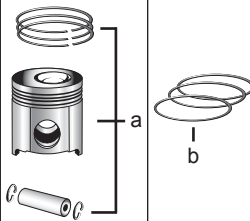
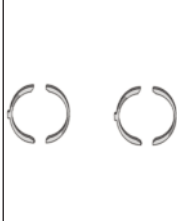
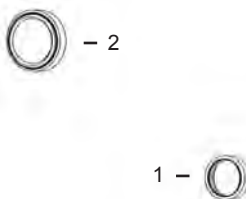
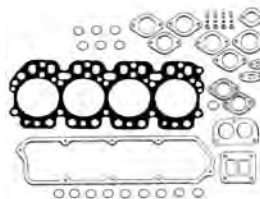
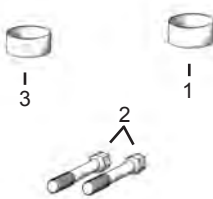
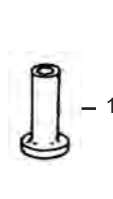
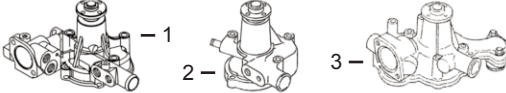
(2) Codes 106 and 006.

(3) Codes 001, 005, 101, and 105.

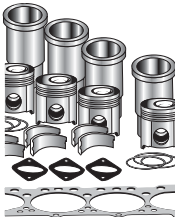
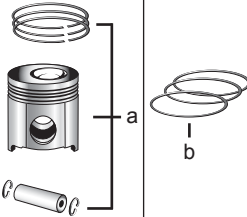
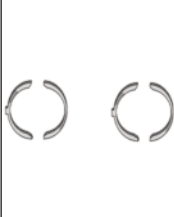
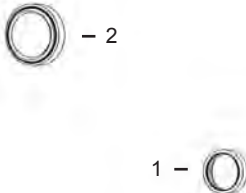
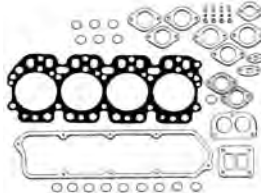
(4) Check your application for proper usage.

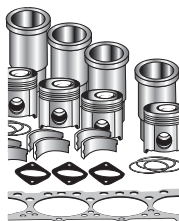
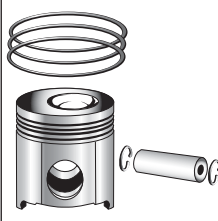
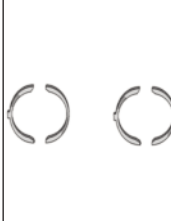
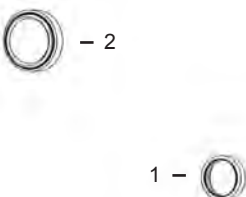
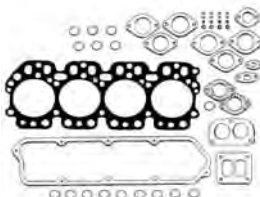
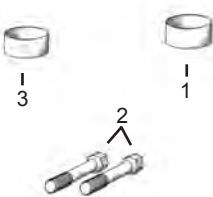
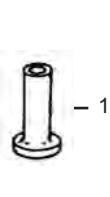
YANMAR Engine & Equipment Model 3TNE88 ACG, ACGD, AGD, AMU, BUE, EG1A, GIA, G1AO1, LAN, MC-EK, MC-K, NSR, PG, SA, TB, YC Bore: 3.46 in 88.00 mm					
Engine O/H Kit	a) Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers	
	b) Ring Set				
	YOK3TNE88	a) Y129001-22081 Std.	Y129001-02931 Std.	Y129150-23601 Std.	Y129150-02931
	YOK3TNE88/25	Y129001-22901 0.25	Y129150-02871 0.25	Y129150-23611 0.25	
	Use 3	Use 4	Use 3	Set of 4	
	b) Y129001-22500 Std. Y129001-22950 0.25				
					
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet		
	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket				
1) Y129795-01800 2) Y129795-01780	1) YMGS3TNE88 2) Y129001-01340 3) Y977770-1207F 4) Y129150-11310	1) Y129100-23910 x3 2) Y121550-23200 x6 3) Y129795-02412 x1	1) Y129150-14200 x6		
	Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
	Y129100-11100 x3	Y129100-11130 x3	1) Y120130-11860 x3 2) Y129150-11810 x3	1) Y124460-11340 x3 2) Y121400-11340 x3	Y129795-11120 x6
					
Thermostat	Oil Pump	Lift Pump	Water Pump		
Y129155-49801	Y129001-32001	Y129100-52101-Z	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)		

(1) Check your application for proper usage.

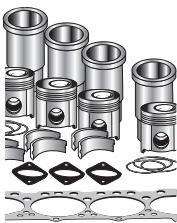
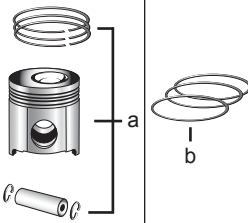
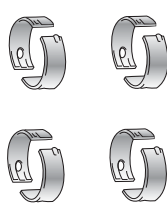
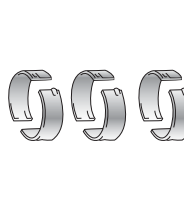
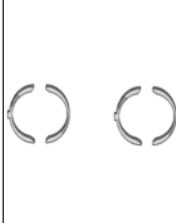
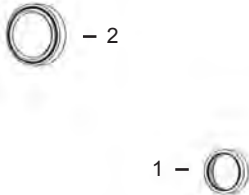
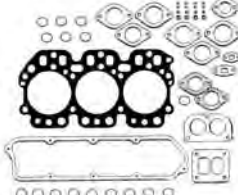
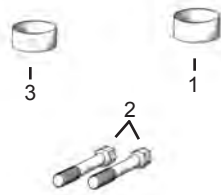
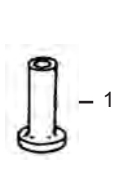
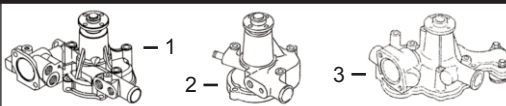
YANMAR Engine & Equipment Model 4TNE88 ACG, ACGD, AD, ADEL, AGD, BEN, BUE, EACG, EAD, EAD1, EADS, EC1MC, EFL, EG1A, GR, HP, HYS, IKA, LAN, M-EK, MS, NS, NSR, NSW, PG, P2, SA, TB, TB1 Bore: 3.46 in 88.00 mm							
Engine O/H Kit	a) Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers			
	b) Ring Set						
	YOK4TNE88 a) Y129001-22081 Std. Y129001-22901 0.25 Use 4				Y129001-02931 Std. Y129150-02871 0.25 Use 5	Y129150-23601 Std. Y129150-23611 0.25 Use 4	Y129150-02931 Set of 4
	YOK4TNE88/25 b) Y129001-22500 Std. Y129001-22950 0.25						
	1) Front Seal 2) Rear Seal						
		1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam				
		2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket					
	1) Y129795-01800 2) Y129795-01780	1) YMGS4TNE88 2) Y129407-01340 3) Y977770-1207F 4) Y129550-11310	1) Y129100-23910 x4 2) Y121550-23200 x8 3) Y129795-02412 x1		1) Y129150-14200 x8		
	Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve		
	Y129100-11100 x4	Y129100-11130 x4	1) Y120130-11860 x4 2) Y129150-11810 x4	1) Y124460-11340 x4 2) Y121400-11340 x4	Y129795-11120 x8		
							
Thermostat	Oil Pump	Lift Pump	Water Pump				
Y129155-49801	Y129407-32000	Y129100-52101-Z	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)				

(1) Check your application for proper usage.

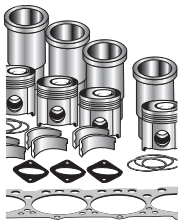
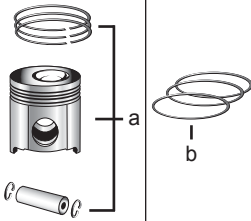
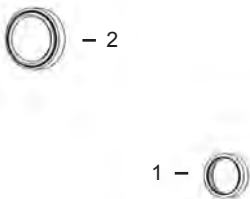
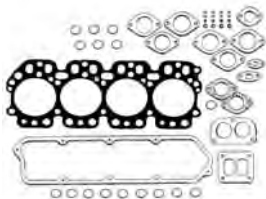
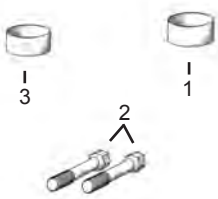
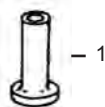
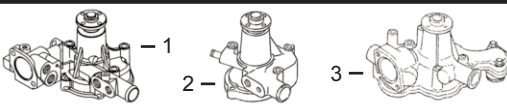
YANMAR								
Engine & Equipment Model 4TNE106D AMM, G1, G1A, GE, SA, TB Bore: 4.17 in 106.00 mm		Engine O/H Kit		a) Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers	
				b) Ring Set				
		YOK4TNE106		a) Y123900-22080 Std.		Y723900-02800 Std.	Y123900-23600 Std.	Y123900-02930
		YOK4TNE106/25		Y123900-22900 0.25		Y123900-02340 0.25	Y123900-23610 0.25	
				Use 4				
		b) Y123900-22050 Std.		Use 5	Use 4	Set of 4		
		Y123900-22950 0.25						
				 3  2  1	 1			
1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet		
		2) Head Gasket						
1) Y123900-01780 2) Y123672-01782		1) Y723900-92630 2) Y123900-01330		1) Y123900-23910 x4 2) Y123900-23200 x8 3) Y123900-02410 x1		1) N/A		
		Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int		Spring, Valve	
		Y123900-11100 x4	Y123900-11110 x4	Y119000-11810 x8	1) Y27310-090000 x16 2) Y121850-11150 x8		Y123900-11120 x8	
								
Thermostat		Oil Pump			Water Pump			
Y124610-48620		Y123900-32001			Y123900-42101			

YANMAR Engine & Equipment Model											
4TNE106T G1A, ML, NS, SA, TBL Bore: 4.17 in 106.00 mm		Engine O/H Kit		a) Piston Kit		Main Bearing		Con Rod Bearing		Thrust Washers	
				b) Ring Set							
		YOK4TNE106T		a) Y123901-22080 Std.		Y723900-02800 Std.		Y123900-23600 Std.		Y123900-02930	
		YOK4TNE106T/25		Y123901-22900 0.25		Y123900-02340 0.25		Y123900-23610 0.25			
				See note (1) below Use 4							
				b) Y123900-22050 Std. Y123900-22950 0.25		Use 5		Use 4		Set of 4	
											
1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet					
		2) Head Gasket									
1) Y123900-01780 2) Y123672-01782		1) Y723900-92630 2) Y123900-01330		1) Y123900-23910 x4 2) Y123900-23200 x8 3) Y123900-02410 x1		1) N/A					
		Valve, Intake		Valve, Exhaust		Guide, Valve		1) Lock, Valve 2) Stem Seal		Spring, Valve	
Y123900-11100 x4		Y123900-11110 x4		Y119000-11810 x8		1) Y27310-090000 x16 2) Y121850-11150 x8		Y123900-11120 x8			
											
Thermostat		Oil Pump				Water Pump					
Y124610-48620		Y123900-32001				1) Y123900-42000 2) Y123900-42101					

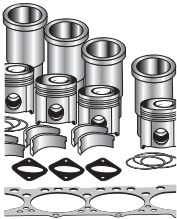
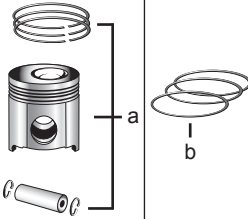
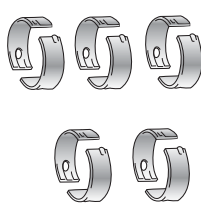
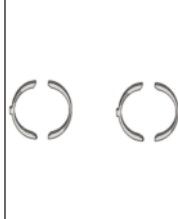
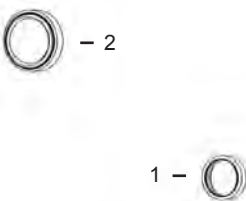
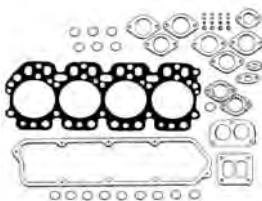
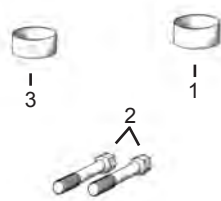
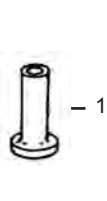
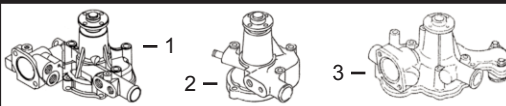
(1) On 4TNE106T engines, Use for model 4TNE106T-G1A only.

YANMAR Engine & Equipment Model 3TNV84/T BGKL, BGMG, BKSA2, BMCU, BMNK, BXNK, DUW, DZP01, DZP02, DZP03, GDG, GGE, GKL, GMG, GKM, GYM, GZG01, KMW, KSA, KSA2, KSA3, KUP, LUZ, MU2, NBK, NU1, Q1K, Q1KA, S1K, XKMR, XLW Bore: 3.30 in 84.00 mm							
	Engine O/H Kit	a) Piston Kit		Main Bearing	Con Rod Bearing	Thrust Washers	
		b) Ring Set					
	YOK3TNV84	a) Y129004-22080 Std.		Y129001-02931 Std.	Y129150-23601 Std.	Y129150-02931	
	YOK3TNV84/25	Y129004-22900 0.25		Y129150-02871 0.25	Y129150-23611 0.25		
		Use 3					
		b) Y129004-22500 Std. Y129004-22950 0.25		Use 4	Use 3	Set of 4	
							
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet
			2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket				
	1) Y129795-01800 2) Y129795-01780		1) YMGS3TNE84 2) Y129002-01331 3) Y977770-1207F 4) Y129004-11310		1) Y129100-23910 x3 2) Y121550-23200 x6 3) Y129795-02412 x1		1) Y129150-14200 x6
			Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129004-11130 x3		Y129100-11130 x3	Y129100-11130 x3	1) Y120130-11860 x3 2) Y129150-11810 x3	1) Y124460-11340 x3 2) Y121400-11340 x3	Y129795-11120 x6	
							
Thermostat	Oil Pump	Electric Fuel Pump	Water Pump		Repair Sleeve		
Y129155-49801	Y129001-32001 Y129407-32000	Y119225-52102	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)		84RS		

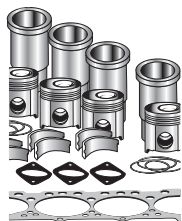
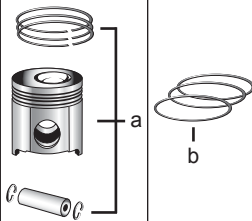
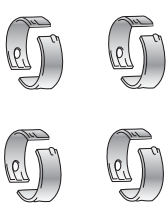
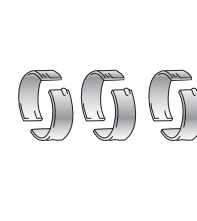
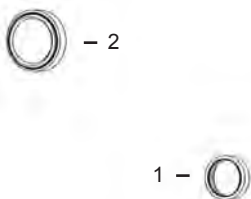
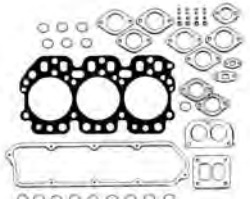
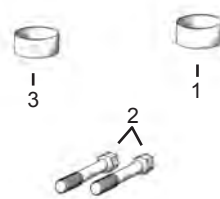
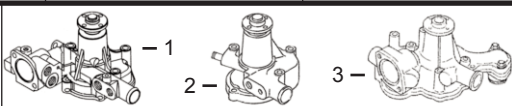
(1) Check your application for proper usage.

YANMAR Engine & Equipment Model 4TNV84 DMW, GGE, KLAN, KVA, KWA, LU2 Bore: 3.30 in 84.00 mm						
	Engine O/H Kit	a) Piston Kit b) Ring Set		Main Bearing	Con Rod Bearing	Thrust Washers
	YOK4TNV84	a) Y129004-22080 Std. Y129004-22900 0.25 Use 4		Y129001-02931 Std. Y129150-02871 0.25	Y129150-23601 Std. Y129150-23611 0.25	Y129150-02931
	YOK4TNV84/25	b) Y129004-22500 Std. Y129004-22950 0.25		Use 5	Use 4	Set of 4
						
1) Front Seal 2) Rear Seal		1) O/H Gasket Set 2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet
1) Y129795-01800 2) Y129795-01780		1) YMGS4TNE84 2) Y129408-01330 3) Y977770-1207F 4) Y129601-11310		1) Y129100-23910 x4 2) Y121550-23200 x8 3) Y129795-02412 x1		1) Y129150-14200 x8
		Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129004-11130 x4		Y129100-11130 x4	1) Y120130-11860 x4 2) Y129150-11810 x4	1) Y124460-11340 x4 2) Y121400-11340 x4	Y129795-11120 x8	
						
Thermostat	Oil Pump	Electric Fuel Pump	Water Pump		Repair Sleeve	
Y129155-49801	Y129001-32001 Y129407-32000	Y119225-52102	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)		84RS	

(1) Check your application for proper usage.

YANMAR Engine & Equipment Model 4TNV84T BGGE, BGKL, BGMG, BGYM, BMSA, BMSA2, BPCU, DFM, DMW, DSA, DSA3, GGE, GGEH, GGEHC, GKL, GKM, GKMR, GMG, K5FN, KLAN, KSNV, KWA, MWA, XNSS, XSU, XTBL, XWA, XLW Bore: 3.30 in 84.00 mm					
Engine O/H Kit	a) Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers	
	b) Ring Set				
	YOK4TNV84T	a) Y129508-22080 Std.	Y129001-02931 Std.	Y129150-23601 Std.	Y129150-02931
	YOK4TNV84T/25	Y129508-22900 0.25	Y129150-02871 0.25	Y129150-23611 0.25	
	Use 4	Use 5	Use 4	Set of 4	
	b) Y129004-22500 Std. Y129004-22950 0.25				
					
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet		
	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket				
1) Y129795-01800 2) Y129795-01780	1) YMGS4TNE84 2) Y129408-01330 3) Y977770-1207F 4) Y129601-11310	1) Y129100-23910 x4 2) Y121550-23200 x8 3) Y129795-02412 x1	1) Y129150-14200 x8		
	Valve, Intake	Valve, Exhaust	Guide, Valve	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
	Y129508-11100 x8	Y129508-11110 x8	Y119717-11800 x16	1) Y119717-11340 x8 2) Y119717-11350 x8	Y129508-11130 x16
					
Thermostat	Oil Pump	Electric Fuel Pump	Water Pump		Repair Sleeve
Y129155-49801	Y129001-32001	Y119225-52102	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)		84RS

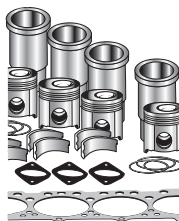
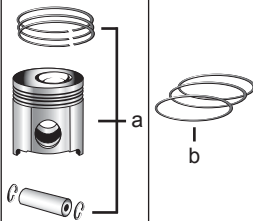
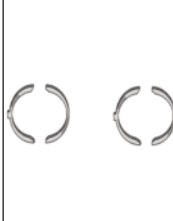
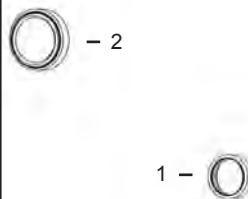
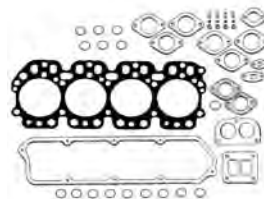
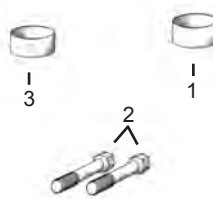
(1) Check your application for proper usage.

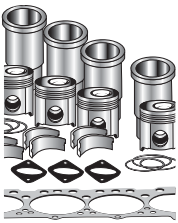
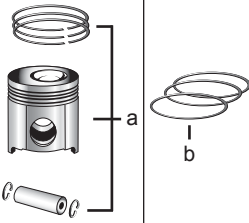
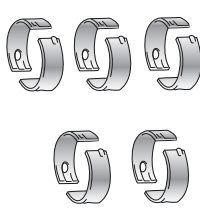
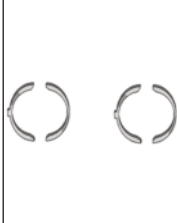
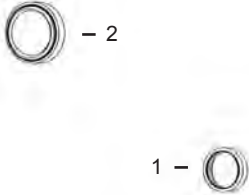
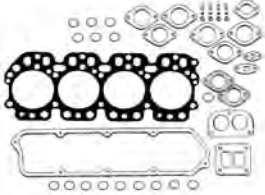
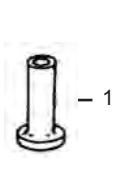
YANMAR Engine & Equipment Model 3TNV88 BKMW, DSAP, GYM, MU2, NBK, NU1, XLW Bore: 3.46 in 88.00 mm										
	Engine O/H Kit		a) Piston Kit		Main Bearing		Con Rod Bearing		Thrust Washers	
			b) Ring Set							
	YOK3TNV88		a) Y129005-22080 Std.		Y129001-02931 Std.		Y129150-23601 Std.		Y129150-02931	
	YOK3TNV88/25		Y129005-22900 0.25		Y129150-02871 0.25		Y129150-23611 0.25			
			Use 3							
			b) Y129005-22500 Std. Y129005-22950 0.25		Use 4		Use 3		Set of 4	
										
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet			
			2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket							
1) Y129795-01800 2) Y129795-01780		1) YMGS3TNE88 2) Y129001-01340 3) Y977770-1207F 4) Y129004-11310		1) Y129100-23910 x3 2) Y121550-23200 x6 3) Y129795-02412 x1		1) Y129150-14200 x6				
		Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve				
		Y129005-11100 x3	Y129100-11130 x3	1) Y120130-11860 x3 2) Y129150-11810 x3	1) Y124460-11340 x3 2) Y121400-11340 x3	Y129795-11120 x6				
										
Thermostat		Oil Pump		Electric Fuel Pump	Water Pump					
Y129155-49801		Y129001-32001		Y119225-52102	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)					

(1) Check your application for proper usage.

YANMAR					
Engine & Equipment Model					
4TNV88					
DSA, GGEP,					
GYM, LU2, NBK,					
XWL, DSAP					
Bore: 3.46 in 88.00 mm					
Engine O/H Kit	a) Piston Kit	Main Bearing	Con Rod Bearing	Thrust Washers	
b) Ring Set					
YOK4TNV88	a) Y129005-22080 Std.	Y129001-02931 Std.	Y129150-23601 Std.	Y129150-02931	
YOK4TNV88/25	Y129005-22900 0.25	Y129150-02871 0.25	Y129150-23611 0.25		
	Use 4				
	b) Y129005-22500 Std.				
	Y129005-22950 0.25	Use 5	Use 4	Set of 4	
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet		
	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket				
1) Y129795-01800 2) Y129795-01780	1) YMGS4TNE88 2) Y129407-01340 3) Y977770-1207F 4) Y129601-11310	1) Y129100-23910 x4 2) Y121550-23200 x8 3) Y129795-02412 x1	1) Y129150-14200 x6		
Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve	
Y129005-11100 x4	Y129100-11130 x4	1) Y120130-11860 x4 2) Y129150-11810 x4	1) Y124460-11340 x4 2) Y121400-11340 x4	Y129795-11120 x8	
Thermostat	Oil Pump	Electric Fuel Pump	Water Pump		
Y129155-49801	Y129001-32001	Y119225-52102	1) Y129001-42004 (1) 2) Y129100-42004 (1) 3) Y129263-42000 (1)		

(1) Check your application for proper usage.

YANMAR Engine & Equipment Model 4TNV106D Bore: 4.17 in 106.00 mm											
	Engine O/H Kit		a) Piston Kit		Main Bearing		Con Rod Bearing		Thrust Washers		
			b) Ring Set								
	YOK4TNV106		a) Y123907-22090 Std.		Y723900-02800 Std.		Y123900-23600 Std.		Y123900-02930		
	YOK4TNV106/25		Y723907-22910 0.25		Y123900-02340 0.25		Y123900-23610 0.25				
			Use 4								
			b) Y123907-22050 Std. Y723907-22950 0.25		Use 5		Use 4		Set of 4		
											
	1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam		1) Tappet				
	3) Crankshaft		2) Head Gasket								
	1) Y123900-01780 2) Y123672-01782		1) Y723900-92630 2) Y123900-01330		1) Y123900-23910 x4 2) Y123900-23200 x8 3) Y123900-02410 x1		1) N/A				
			Valve, Intake		Valve, Exhaust		Guide, Valve		1) Lock, Valve 2) Stem Seal Int		Spring, Valve
		Y123900-11100 x4		Y123900-11110 x4		Y119000-11810 x8		1) Y27310-090000 x16 2) Y121850-11150 x8		Y123900-11120 x8	
											
Thermostat		Oil Pump				Water Pump					
Y124610-48620		Y123900-32001				1) Y123907-42000 2) Y123945-42000					

YANMAR Engine & Equipment Model 4TNV106T Bore: 4.17 in 106.00 mm		 				
Engine O/H Kit		a) Piston Kit b) Ring Set		Main Bearing	ConRod Bearing	Thrust Washers
YOK4TNV106T		a) Y123907-22081 Std.		Y723900-02800 Std.	Y123900-23600 Std.	Y123900-02930
YOK4TNV106T/25		Y723907-22900 0.25		Y123900-02340 0.25	Y123900-23610 0.25	
		Use 4				
		b) Y123907-22050 Std. Y723907-22950 0.25		Use 5	Use 4	Set of 4
						
1) Front Seal 2) Rear Seal		1) O/H Gasket Set		1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet	
		2) Head Gasket				
1) Y123900-01780 2) Y123672-01782		1) Y723900-92630 2) Y123900-01330		1) Y123900-23910 x4 2) Y123900-23200 x8 3) Y123900-02410 x1	1) N/A	
		Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int	Spring, Valve
Y123900-11100 x4		Y123900-11110 x4		Y119000-11810 x8	1) Y27310-090000 x16 2) Y121850-11150 x8	Y123900-11120 x8
						
Thermostat		Oil Pump			Water Pump	
Y124610-48620		Y123900-32001			1) Y123907-42000 2) Y123945-42000	

Página en Español

Para nuestros clientes de habla española:

Maxiforce es una firma especializada en la manufactura y distribución de repuestos para motores John Deere®, Cummins® de las series B y C, Perkins®, Caterpillar®, y Yanmar®.

Nuestro catálogo está conformado por modelos de motor y aplicaciones de los mismos. Si Ud. tiene el modelo de motor se remite a el directamente y a la página donde se detalla de manera gráfica las partes y componentes disponibles para ese motor. Si por el contrario Ud. tiene el modelo del tractor o la máquina en que se usa dicho motor puede entonces usar el índice de aplicación y este lo llevara a la página adecuada donde Ud. podrá ver también el modelo y las características del motor en cuestión. En el caso de Cummins® incluimos el CPL (Control Parts List) que le servirá de guía precisa para llegar a la página correspondiente.

Hemos incluido un breve diccionario de los términos que más se usan en este catálogo para contribuir al más fácil manejo del mismo. Si necesita Ud. cualquier información técnica o cualquier ayuda le sugerimos que se comunique con nuestras oficinas donde hay personas que hablan español y estarán muy contentas de poder atenderlo.

Diccionario

<i>Ingles</i>	<i>Español</i>	<i>Ingles</i>	<i>Español</i>
Backhoe Loader	Retroexcavadora/cargadora	Liter Designated	Designado por litros
Balancer Shaft	Eje/flecha de balanceador	Lock, Valve	Candado de valvula
Balancer Unit	Balanceador	Main Bearing	Cojinete de bancada
Belt	Correa	Main Bearing Set	Juego de cojinetes de bancada
Belt Tensioner	Tensor de correa	Motor Grader	Motoniveladora
Block	Bloque de motor	Nut, Con Rod	Tuerca de biela
Bolt, Con Rod	Tornillo de biela	Oil Cooler	Enfriador de aceite
Bottom Gasket Set	Juego de juntas/empaques inferiores	Oil Pump	Bomba de aceite
Bushing, Cam	Buje/bocina arbol de levas	O'ring	Anillo torico
Bush, Con Rod	Buje/Bocina del piston	O'rings on Block	Gomas/juntas en el bloque
Camshaft	Eje de levas	O'rings on Liner	Gomas/juntas sobre camisa
Camshaft, Gear	Engranaje eje de levas	Piston	Piston
Combine	Cosechadora	Piston Pin	Pasador de piston
Con Rod Bearing	Cojinete de biela	Piston-Liner Kit	Conjunto de cilindro
Con Rod Bearing set	Juego de cojinetes de biela	Push Rod	Varilla impulsora
Con Rod	Biela	Rear Seal	Retén/sello/estopera trasero cigueñal
Crankshaft	Cigueñal	Repair Sleeve	Camisa de reparacion
Crankshaft, Gear	Engranaje cigueñal	Ring Gear	Engranaje
Crawler Dozer	Pala de orugas	Ring Set	Juego de Anillos de motor/ segmentos
Crawler Loader	Cargadora de orugas	Rocker Arms	Balancines
Cylinder Head	Culata/cabezote/tapa motor	Rocker Shaft	Eje de balancines
Engine In-Frame	Kit de reparacion completa sobre el vehículo	Seal, Valve	Sello de valvula
Engine O/H Kit	Kit de reparacion completa	Seat, Valve	Asiento de valvula
Excavator	Retroexcavadora	Small Pin	Pasador pequeño
Farm Tractor	Tractor agricola	Spring, Valve	Resorte/muelle de valvula
Forklift	Carretilla elevadora	Tappet	Taquete/empujador
Front Seal	Retén/sello/estopera delantero cigueñal	Thick Wall	Pared gruesa
Fuel transfer Pump	Bomba de transferencia	Thin Wall	Pared delgada
Gasket	Junta/empaque	Top Gasket Set	Juego de juntas/empaques superiores
Guide, Valve	Guia de valvula	Valve, Exhaust	Valvula de escape
Heater Plug	Bujia de precalentamiento	Valve, Intake	Valvula de admision
Idler, Gear	Engranaje suelto	Warranty	Garantia
Insert, Valve	Asiento de valvula	Water pump	Bomba de agua
Large Pin	Pasador grande	Water Pump Repair Kit	Conjunto rep. Bomba de agua
Liner	Camisa de motor	Wheel Loader	Cargadora de ruedas