

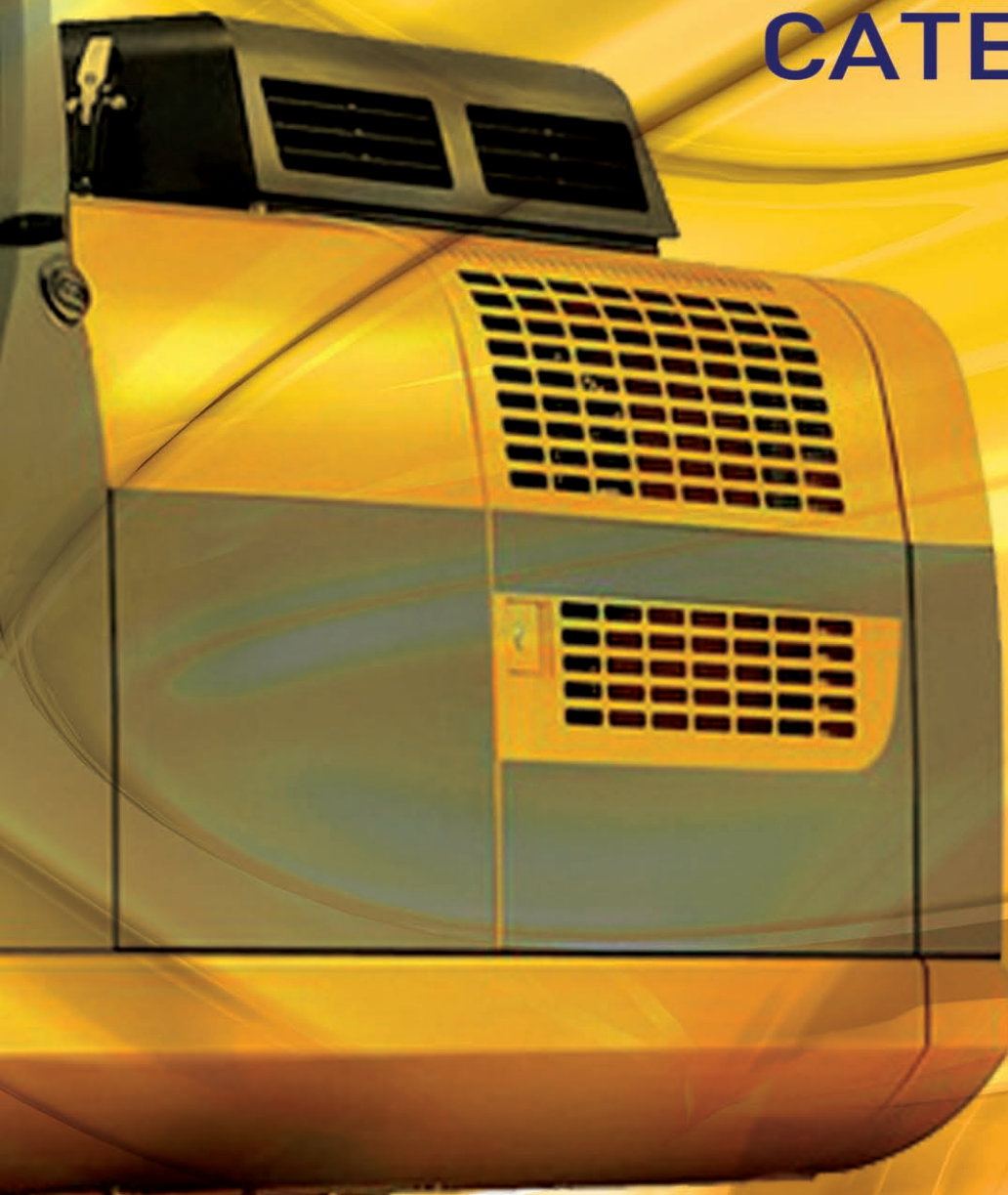
The



# Engine Book

SUITABLE FOR

# CATERPILLAR®



ALSO INCLUDING:  
BALANCE SHAFTS AND LIFTERS  
NOZZLES INJECTORS AND VALVES  
PLUNGER AND BARREL  
FUEL LINES  
GLOWPLUGS and LEADS  
THERMOSTAT  
PUMPS  
OIL COOLERS  
GAUGES  
UNIVERSAL JOINTS  
CATERPILLAR - MUFFLER ASSY  
LONG AND SHORT BLOCKS

February 2013

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PROMO 40





## List of KMP BRAND Catalogue 2013

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### **our REF. ITEM DESCRIPTION**

- 17 CATERPILLAR Engine Overhaul, Out-of/In Frame Kits Catalogue (298 pages)
- 40 CATERPILLAR ENGINE BOOK 2013 (218 pages)
  
- 38 CUMMINS SPARE PARTS Engine Overhaul, Out-of/In Frame Kits + CD, Oct 2011 (424 pages)
- 48 CUMMINS - ENGINE BOOK + CD, October 2011 (148 pages)
- 55 CUMMINS - Engine QSX15 , Feb 2012 (20 pages)
- 56 CUMMINS - Series 6CT 8.3 QSC ISC ISL QSL , Feb 2012 (26 pages)
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- 59 CUMMINS - Series L10 M11 , Feb 2012 (38 pages)
- 61 CUMMINS - Engines B3.3 Series , Feb 2012 (8 pages)
- 62 CUMMINS - V/VT 378/504/5/903, VT28-1710, NH220-N748 , Feb 2012 (20 pages)
- 63 CUMMINS - NT855, N14 Series , Feb 2012 (206 pages)
  
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- 33 DETROIT DIESEL ENGINE + EOK Catalogue, May 2011 (292 pages)
  
- 3 KOMATSU Engine Overhaul, Out-of/In Frame Kits Catalogue (112 pages)
- 25 KOMATSU PARTS Catalogue 2012, release September 2012
  
- 65 NAVISTAR INTERNATIONAL PARTS Catalogue 2012 + CD, March 2012 (26 pages)

### **Extensive Programmes**

- 39 Turbochargers, Crankshafts & Cylinder Heads - for Cat, Kom, Cum, DD 2011 (92 pages)
- 15 The Most Comprehensive Range of Pumps for Komatsu, new release November 2012
- 1 Gasket Kit Programme + CD, May 2012 (24 pages)
- 18 V-Belt Programme, August 2012 (18 pages)

### **CD ROM**

- 64 CATERPILLAR CD version of Ref. 17 + 40
- 46 CUMMINS CD version of Ref. 38 + 48
- 45 DETROIT DIESEL CD version of Ref. 50
- 26 KOMATSU CD version of Ref. 3 +25
- 68 Gasket Kit Programme CD version of Ref. 1
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## CATERPILLAR D330(A,B) SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Industrial 56B1-up, 85B1-up, 98B1-up		
S/No's - Marine 57B1-up, 86B1-up, 99B1-up		
Cylinder Kit	354030	4
Piston Body	2M5558	4
Piston Pin	7N9804	4
Retainer, Piston Pin	9H4015	8
Piston Ring Set	354029	4
Cylinder Liner	852240	4
Seal, O Ring	353977	4

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head	259004	1
Valve, Inlet	7M7358	4
Valve, Exhaust	9M4163	4
Valve Lock-Half	2A4429	16
Insert, Valve Seat Inlet Std	1W5321	4
Insert, Valve Seat Exhaust Std	9M6495	4
Guide, Inlet & Exh Valve	4N3668	8
Rotocoil (Includes Shield)	3S0461	8
Shield, Valve Guide	2M7876	8
Spring, Inlet & Exh Valve	9H9164	8
Push Rod	7M7681	8
Lifter	7M4166	8
Precombustion Chamber	5S1822	4
Seal O Ring, Chamber	2H3088	4
Gasket, Chamber 493mm	5M2667	4
Gasket, Chamber 570mm	2S8959	4
Gasket, Chamber 630mm	2S8960	4
Director, Water	5H7071	12
Ferrule	6B6224	13
Seal, Ferrule	6L7813	13
Ferrule	7B2420	2
Seal, Ferrule	6L7814	2

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	8M4505	1
Seal, Oil Front Std	5S9021	1
Seal, Oil Front OS	5S6296	1
Sleeve, Front, Seal	2P3859	1
Seal Group with Sleeve	9Y9895	1
Seal, Oil Rear Std	5S9022	1
Seal, Oil Rear OS	9S3111	1
Seal, Oil Rear OS Double Lip	7C4297	1
Sleeve, Rear Seal	2P3858	1
Seal Group with Sleeve	4W0452	1
Main Bearing Std	232-3233	4
Main Bearing Std	7S9439	1
Main Bearing 010"	8N8225	4
Main Bearing 010"	7S9844	1
Main Bearing 020"	8N8226	4
Main Bearing 020"	7S9845	1
Main Bearing 030"	8N8227	4
Main Bearing 030"	7S9846	1
Main Bearing 040"	232-3233/040	4
Main Bearing 040"	7S9439/040	1
Main Bearing 050"	232-3233/050	4
Main Bearing 050"	7S9439/050	1
Conrod Bearing Std	8N8220	4
Conrod Bearing 010"	8N8221	4
Conrod Bearing 020"	8N8222	4
Conrod Bearing 030"	8N8223	4
Conrod Bearing 040"	8N8220/040	4
Conrod Bearing 050"	8N8220/050	4
Conrod Bushing	9H3984	4

CAMSHAFT/BALANCER SHAFT & RELATED PARTS	PART No	QTY
Bushing, Camshaft	9M5477	1
Bushing, Camshaft	7M4046	2
Bushing, Balancer Shaft	9M5238	2
Bushing, Balancer Shaft	9M5239	4

## CATERPILLAR D330(A,B) SERIES ENGINE

FUEL SYSTEM	PART No	QTY
S/No's - Industrial 56B1-up, 98B1-up		
S/No's - Marine 57B1 - 57B362, 99B1-up		
Valve Service Group	3S6638	4
Plunger & Barrel	9H5797	4
Fuel Priming Pump	9H2256	1
S/No's - Industrial 85B1-up,		
S/No's - Marine 57B363-up, 86B1-up		
Valve Service Group	8M1584	4
Plunger & Barrel	9H5797	4
Fuel Priming Pump	9H2256	1

GLOW PLUGS	PART No	QTY
Glow Plug, 12V	3T9561	4
Glow Plug, 24V	3T9562	4
LUBRICATING SYSTEM		
Oil Pump	6N2792	1
COOLING SYSTEM		
Thermostat	9S3808	1
COMMON GASKETS		
Gasket, Cylinder Head	5M5837	1
Gasket, Rocker Cover	8S1606	1
Gasket, Oil Pan	9H3939	1

### TYPICAL APPLICATIONS

D4, D4C, D4D Tractor  
112E, 112F Motor Grader  
922B Wheel Loader  
944 Wheel Loader  
950 Wheel Loader  
951, 951B Traxcavator  
955F, 955H, 955K Traxcavator  
977A Traxcavator

**IT IS RECOMMENDED TO CHECK PART NUMBERS PRIOR TO ORDERING**  
All original equipment, manufacturers' names, part numbers, symbols, drawings, colours and descriptions are for reference purposes only, and it is not implied any part is that of these manufacturers. All efforts have been made to ensure that the information contained herein is correct. KMP Products Europe Limited cannot be held responsible for its accuracy.

## CATERPILLAR D330(C) SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Marine 2B1 - 2B4363		
Cylinder Kit	854635	4
Piston Body	8N3180	4
Piston Pin	7N9804	4
Retainer, Piston Pin	9H4015	8
Piston Ring Set	9S3068	4
Cylinder Liner	110-5800	4
Seal Kit, Cylinder Liner	5P8768	4
S/No's - Industrial 4B1 - 4B6031		
S/No's - Marine 5B1 - 5B1196		
Cylinder Kit	854636	4
Piston Body	9N5250	4
Piston Pin	7N9805	4
Retainer, Piston Pin	1S9543	8
Piston Ring Set	9S3068	4
Cylinder Liner	110-5800	4
Seal Kit, Cylinder Liner	5P8768	4

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head	7S7070	1
Valve, Inlet (Non-Turbo)	5S6452	4
Valve, Exhaust (Non-Turbo)	5S6449	4
Valve, Inlet (Turbo)	2W2621	4
Valve, Exhaust (Turbo)	8N0875	4
Valve Lock-Half	2A4429	16
Insert, Valve Seat Inlet Std	5S7218	4
Insert, Valve Seat Exhaust Std	1W5321	4
Guide, Inlet & Exh Valve	148-7425	8
Rotacoil (Includes Shield)	8N7782	8
Shield, Valve Guide	6N7174	8
Spring, Inlet & Exh Valve	7S7144	8
Push Rod	5S5918	8
Lifter	7S3161	8
Precombustion Chamber	8S3970	4
Seal O Ring, Chamber	7S3206	4
Gasket, Chamber 493mm	5M2667	4
Gasket, Chamber 570mm	2S8959	4
Gasket, Chamber 630mm	2S8960	4
Director, Water	1S3062	12

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	2W7960	1
Seal, Oil Front Std	5S9021	1
Seal, Oil Front OS	5S6296	1
Sleeve, Front, Seal	2P3859	1
Seal Group with Sleeve	9Y9895	1
Seal, Oil Rear Std	5S9022	1
Seal, Oil Rear OS	9S3111	1
Seal, Oil Rear OS Double Lip	7C4297	1
Sleeve, Rear Seal	2P3858	1
Seal Group with Sleeve	4W0452	1
Main Bearing Std	232-3233	5
Main Bearing 010"	8N8225	5
Main Bearing 020"	8N8226	5
Main Bearing 030"	8N8227	5
Main Bearing 040"	232-3233/040	5
Main Bearing 050"	232-3233/050	5
Conrod Bearing Std	8N8220	4
Conrod Bearing 010"	8N8221	4
Conrod Bearing 020"	8N8222	4
Conrod Bearing 030"	8N8223	4
Conrod Bearing 040"	8N8220/040	4
Conrod Bearing 050"	8N8220/050	4
S/No's - Marine 2B1 - 2B4363		
Conrod Bushing (Straight) (15" Dia) (For old style Straight Rod 5S6360)	8N0702	4
Conrod Assy (Tapered 15" Dia Pin)	8N1984	4
Conrod Bushing (Tapered)	8N1985	4
Bolt, Conrod	1P9956	4
Nut, Conrod	5S6348	4
S/No's - Industrial 4B1 - 4B6031		
S/No's - Marine 5B1 - 5B1196		
Conrod Bushing (Straight) (17" Dia) (For old style Straight Rod 5S2793)	8N0703	4
Conrod Assy (Tapered 17" Dia Pin)	8N1721	4
Conrod Bushing (Tapered)	8N1849	4
Bolt, Conrod	1P9956	4
Nut, Conrod	5S6348	4

## CATERPILLAR D330(C) SERIES ENGINE

CAMSHAFT/ BALANCER SHAFT & RELATED PARTS	PART No	QTY
Camshaft Kit (Includes Lifters)	9Y3225	1
Camshaft	9Y1723	1
Bushing, Camshaft	9M5477	1
Bushing, Camshaft	7M4046	2
Balancer Shaft R/H	4N7977	1
Balancer Shaft L/H	4N7978	1
Bushing, Balancer Shaft	9Y2992	2
Bushing, Balancer Shaft	9Y2991	4

FUEL SYSTEM	PART No	QTY
S/No's - Marine 2B1 - 2B4363		
Valve Service Group	8M1584	4
Plunger & Barrel	9H5797	4
Fuel Transfer Pump	4N4878	1
Fuel Priming Pump	9H2256	1
S/No's - Industrial 4B1 - 4B6031		
S/No's - Marine 5B1 - 5B1196		
Valve Service Group	8M1584	4
Plunger & Barrel	9H5797	4
Fuel Priming Pump	9H2256	1

GLOW PLUGS	PART No	QTY
Lead Assy	5S8480	1
Glow Plug, 12V	3T9561	4
Glow Plug, 24V	3T9562	4

LUBRICATING SYSTEM	PART No	QTY
Oil Pump	6N2820	1

COOLING SYSTEM	PART No	QTY
Thermostat (614954) (167-172 Deg F)	120-9453	1
Oil Cooler Core (Engine)	7N0165	1
Oil Cooler Core (Engine) (7N0104)	123-1434	1
Oil Cooler Core (Transmission)	7N0128	1

COMMON GASKETS	PART No	QTY
Gasket, Cylinder Head	7N7386	1
Gasket, Rocker Cover	8S1606	1
Gasket, Oil Pan	8S1963	1

### TYPICAL APPLICATIONS

D4, D4D, D4E Tractor  
112E, 112F Motor Grader  
120G Motor Grader  
130G Motor Grader  
518 Skidder  
920 Wheel Loader  
922B Wheel Loader  
930 Wheel Loader  
941 Traxcavator  
944, 944A Wheel Loader  
950 Wheel Loader  
951, 951B, 951C Traxcavator  
955K Traxcavator

## CATERPILLAR D333(A,B) SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Industrial 58B1-up, 87B1-up		
S/No's - Marine 59B1-up, 88B1-up		
Cylinder Kit	354030	6
Piston Body	2M5558	6
Piston Pin	7N9804	6
Retainer, Piston Pin	9H4015	12
Piston Ring Set	354029	6
Cylinder Liner	8S2240	6
Seal, O Ring	3S3977	6

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head	5S1884	1
Valve, Inlet	7M7358	6
Valve, Exhaust	9M4163	6
Valve Lock-Half	2A4429	24
Insert, Valve Seat Inlet Std	1W5321	6
Insert, Valve Seat Exhaust Std	9M6495	6
Guide, Inlet & Exh Valve	4N3668	12
Rotocoil (Includes Shield)	3S0461	12
Shield, Valve Guide	2M7876	12
Spring, Inlet & Exh Valve	9H9164	12
Push Rod	7M7681	12
Lifter	7M4166	12
Precombustion Chamber	5S1822	6
Seal O Ring, Chamber	2H3088	6
Gasket, Chamber 493mm	5M2667	6
Gasket, Chamber 570mm	2S8959	6
Gasket, Chamber 630mm	2S8960	6
Director, Water	5H7071	18
Ferrule	6B6224	19
Seal, Ferrule	6L7813	19
Ferrule	7B2420	2
Seal, Ferrule	6L7814	2

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	9M2337	1
Seal, Oil Front Std	5S9021	1
Seal, Oil Front OS	5S6296	1
Sleeve, Front, Seal	2P3859	1
Seal Group with Sleeve	9Y9895	1
Seal, Oil Rear Std	5S9022	1
Seal, Oil Rear OS	9S3111	1
Seal, Oil Rear OS Double Lip	7C4297	1
Sleeve, Rear Seal	2P3858	1
Seal Group with Sleeve	4W0452	1
Main Bearing Std	232-3233	6
Main Bearing Std	7S9439	1
Main Bearing 010"	8N8225	6
Main Bearing 010"	7S9844	1
Main Bearing 020"	8N8226	6
Main Bearing 020"	7S9845	1
Main Bearing 030"	8N8227	6
Main Bearing 030"	7S9846	1
Main Bearing 040"	232-3233/040	6
Main Bearing 040"	7S9439/040	1
Main Bearing 050"	232-3233/050	6
Main Bearing 050"	7S9439/050	1
Conrod Bearing Std	8N8220	6
Conrod Bearing 010"	8N8221	6
Conrod Bearing 020"	8N8222	6
Conrod Bearing 030"	8N8223	6
Conrod Bearing 040"	8N8220/040	6
Conrod Bearing 050"	8N8220/050	6
Conrod Bushing	9H3984	6

CAMSHAFT PARTS	PART No	QTY
Bushing, Camshaft	9M5477	1
Bushing, Camshaft	7M4046	4



## CATERPILLAR D333(A,B) SERIES ENGINE

FUEL SYSTEM	PART No	QTY
S/No's - Industrial 58B1-up,		
S/No's - Marine 59B1 - 59B490		
Valve Service Group	3S6638	6
Plunger & Barrel	9H5797	6
Fuel Priming Pump	9H2256	1
S/No's - Industrial 87B1-up,		
S/No's - Marine 59B491-up, 88B1-up		
Valve Service Group	8M1584	6
Plunger & Barrel	9H5797	6
Fuel Priming Pump	9H2256	1

### TYPICAL APPLICATIONS

D5, D5B Tractor  
D6B, D6C, D6D Tractor  
D7F Tractor  
12, 12E, 12F, 12G Motor Grader  
14C, 14D, 14E, 14G Motor Grader  
120 Motor Grader  
140, 140G Motor Grader  
528 Skidder  
561B, 561C Traxcavator  
571F Pipelayer  
572F, 572G Pipelayer  
627, 627B Scraper  
637 Scraper  
815 Compactor  
816 Compactor  
966 Traxcavator  
966C Wheel Loader  
977H, 977K Traxcavator  
980 Wheel Loader

GLOW PLUGS	PART No	QTY
Glow Plug, 12V	3T9561	6
Glow Plug, 24V	3T9562	6

COOLING SYSTEM	PART No	QTY
Thermostat (614954) (167-172 Deg F)	120-9453	1

COMMON GASKETS	PART No	QTY
Gasket, Cylinder Head	5M6039	1
Gasket, Rocker Cover	8S1605	1
Gasket, Oil Pan	4M2962	1

## CATERPILLAR D333(C) SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Industrial 23C1 - 23C739		
Cylinder Kit	854635	6
Piston Body	8N3180	6
Piston Pin	7N9804	6
Retainer, Piston Pin	9H4015	12
Piston Ring Set	9S3068	6
Cylinder Liner	110-5800	6
Seal Kit, Cylinder Liner	5P8768	6
S/No's - Industrial 66D1 - 66D8890		
S/No's - Marine 67D1 - 67D1102		
Cylinder Kit	854636	6
Piston Body	9N5250	6
Piston Pin	7N9805	6
Retainer, Piston Pin	1S9543	12
Piston Ring Set	9S3068	6
Cylinder Liner	110-5800	6
Seal Kit, Cylinder Liner	5P8768	6

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head	1P4303	1
Valve, Inlet (Non-Turbo)	5S6452	6
Valve, Exhaust (Non-Turbo)	5S6449	6
Valve, Inlet (Turbo)	2W2621	6
Valve, Exhaust (Turbo)	8N0875	6
Valve Lock-Half	2A4429	24
Insert, Valve Seat Inlet Std	5S7218	6
Insert, Valve Seat Exhaust Std	1W5321	6
Guide, Inlet & Exh Valve	148-7425	12
Rotocoil (Includes Shield)	8N7782	12
Shield, Valve Guide	6N7174	12
Spring, Inlet & Exh Valve	7S7144	12
Push Rod	5S5918	12
Lifter	7S3161	12
Precombustion Chamber	8S3970	6
Seal O Ring, Chamber	7S3206	6
Gasket, Chamber 493mm	5M2667	6
Gasket, Chamber 570mm	2S8959	6
Gasket, Chamber 630mm	2S8960	6
Director, Water	1S3062	18

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	2W7458	1
Seal, Oil Front Std	5S9021	1
Seal, Oil Front OS	5S6296	1
Sleeve, Front, Seal	2P3859	1
Seal Group with Sleeve	9Y9895	1
Seal, Oil Rear Std	5S9022	1
Seal, Oil Rear OS	9S3111	1
Seal, Oil Rear OS Double Lip	7C4297	1
Sleeve, Rear Seal	2P3858	1
Seal Group with Sleeve	4W0452	1
Main Bearing Std	232-3233	7
Main Bearing 010"	8N8225	7
Main Bearing 020"	8N8226	7
Main Bearing 030"	8N8227	7
Main Bearing 040"	232-3233/040	7
Main Bearing 050"	232-3233/050	7
Conrod Bearing Std	8N8220	6
Conrod Bearing 010"	8N8221	6
Conrod Bearing 020"	8N8222	6
Conrod Bearing 030"	8N8223	6
Conrod Bearing 040"	8N8220/040	6
Conrod Bearing 050"	8N8220/050	6
S/No's - Industrial 23C1 - 23C739		
Conrod Bushing (Straight) (15" Dia) (For old style Straight Rod 5S6360)	8N0702	6
Conrod Assy (Tapered 15" Dia Pin)	8N1984	6
Conrod Bushing (Tapered)	8N1985	6
Bolt, Conrod	1P9956	6
Nut, Conrod	5S6348	6
S/No's - Industrial 66D1 - 66D8890		
S/No's - Marine 67D1 - 67D1102		
Conrod Bushing (Straight) (17" Dia) (For old style Straight Rod 5S2793)	8N0703	6
Conrod Assy (Tapered 17" Dia Pin)	8N1721	6
Conrod Bushing (Tapered)	8N1849	6
Bolt, Conrod	1P9956	6
Nut, Conrod	5S6348	6

## CATERPILLAR D333(C) SERIES ENGINE

CAMSHAFT & RELATED PARTS	PART No	QTY
Camshaft Kit (Includes Lifters)	4P2942	1
Camshaft	7E9980	1
Bushing, Camshaft	9M5477	1
Bushing, Camshaft	7M4046	4

COMMON GASKETS	PART No	QTY
Gasket, Cylinder Head	6N7263	1
Gasket, Rocker Cover	8S1606	1
Gasket, Oil Pan	169-4199	1

FUEL SYSTEM	PART No	QTY
S/No's - Industrial 23C1 - 23C739		
Valve Service Group	8M1584	6
Plunger & Barrel	9H5797	6
Fuel Priming Pump	9H2256	1
S/No's - Industrial 66D1 - 66D8890		
S/No's - Marine 67D1 - 67D1102		
Valve Service Group	8M1584	6
Plunger & Barrel	9H5797	6
Fuel Transfer Pump	4N4878	1
Fuel Priming Pump	9H2256	1

### TYPICAL APPLICATIONS

D5 Tractor  
D6C Tractor  
D7F Tractor  
12F Motor Grader  
120 Motor Grader  
140 Motor Grader  
561 Pipelayer  
627B Scraper  
814 Wheel Tractor  
815 Compactor  
966C Wheel Loader

GLOW PLUGS	PART No	QTY
Lead Assy	5S8479	1
Glow Plug, 12V	3T9561	6
Glow Plug, 24V	3T9562	6

LUBRICATING SYSTEM	PART No	QTY
Oil Pump	6N2820	1

COOLING SYSTEM	PART No	QTY
Thermostat (6I4954) (167-172 Deg F)	120-9453	1
Oil Cooler Core (Engine)	7N0110	1
Oil Cooler Core (Engine)	7N0165	1
Oil Cooler Core (Engine)	7N3521	1
Oil Cooler Core (Transmission)	4W7188	1
Oil Cooler Core (Transmission)	2W9978	1
Oil Cooler Core (Transmission)	7N0128	1

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## CATERPILLAR D342 SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
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S/No's - Industrial  
31B1 - 31B2477, 31B3091-up  
41B1 - 41B33, 41B312up

S/No's - Vehicle  
17S1 - 17S2853

S/No's - Marine  
32B1-up, 50B1 - 50B34, 50B287-up

Cylinder Kit	KM4032	6
Piston Body	4M9111	6
Piston Pin	7N9809	6
Retainer, Piston Pin	7M4926	12
Piston Ring Set	3S4031	6
Cylinder Liner	8N5676	6
Seal Kit, Cylinder Liner	5P9221	6

S/No's - Industrial  
31B2478 - 31B3090, 49B34 - 49B311

S/No's - Vehicle  
17S2854-up

S/No's - Marine  
50B35 - 50B286

Cylinder Kit	3S4032	6
Piston Body	7N1366	6
Piston Pin	7N9809	6
Retainer, Piston Pin	7M4926	12
Piston Ring Set	8N5760	6
Cylinder Liner	8N5676	6
Seal Kit, Cylinder Liner	5P9221	6

CYLINDER HEAD COMPONENTS	PART No	QTY
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Cylinder Head (Spacer Plate)(8N6000)	5N8501	2
Cylinder Head (Non-Spacer Plate)	8N6004	2

Valve, Inlet	8H1993	6
Valve, Exhaust	8H1994	6
Valve Lock-Half	3B1143	36
Insert, Valve Seat Inlet Std	9M8745	6
Insert, Valve Seat Inlet 005" O/S	4S8912	6
Insert, Valve Seat Inlet 010" O/S	4S8913	6
Insert, Valve Seat Exhaust Std	8M9810	6
Insert, Valve Seat Exhaust 005" O/S	4S8896	6
Insert, Valve Seat Exhaust 010" O/S	4S8897	6
Guide, Inlet & Exh Valve	7N2051	12
Spacer, Valve Guide	3N1414	12
Rotacoil (Includes Shield)	7N7639	12
Spring, Inlet & Exh Valve (Outer)	9M5350	12
Spring, Inlet & Exh Valve (Inner)	9M5349	12

CYLINDER HEAD COMPONENTS (Continued)	PART No	QTY
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Push Rod	9H6236	12
Lifter	5S1220	12

Precombustion Chamber	2P0484	6
Seal O Ring, Chamber	6L7816	6
Gasket, Chamber 354mm	1P6442	6
Gasket, Chamber 394mm	1P6441	6
Gasket, Chamber 315mm	5H2579	6

Director, Water	5H7071	24
Ferrule	6B6224	24
Seal, Ferrule	6L7813	24
Ferrule	7B2420	2
Seal, Ferrule	6L7814	2

CRANKSHAFT & RELATED PARTS	PART No	QTY
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S/No's - Industrial  
31B1 - 31B3783, 49B1 - 49B0795

S/No's - Marine  
32B1 - 32B2223, 50B1 - 50B0913

Crankshaft	4M0447	1
Seal, Oil Front Std	8H7319	1

Seal, Oil Rear Std (Used with Std Bearings)	6H4498	1
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Seal, Oil Rear Std (Used with 020" and above Bearings)	7H6747	1
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Main Bearing Std (Front)	6F1931	1
Main Bearing Std (Intermediate)	6F1932	4
Main Bearing Std (Center)	4H5510	1
Main Bearing Std (Rear)	6H4510	1

Main Bearing 025" (Front)	2H2451	1
Main Bearing 025" (Intermediate)	2H2449	4
Main Bearing 025" (Center)	4H5511	1
Main Bearing 025" (Rear)	2H2452	1

Main Bearing 050" (Front)	6F1935	1
Main Bearing 050" (Intermediate)	6F1936	4
Main Bearing 050" (Center)	4H5512	1
Main Bearing 050" (Rear)	7H4449	1

Conrod Bearing Std	2M6499	6
Conrod Bearing 025"	2M6500	6
Conrod Bearing 050"	2M6501	6

Conrod Bushing	4M9183	6
Bolt, Conrod	9S8493	12
Nut, Conrod	9S8494	12

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## CATERPILLAR D342 SERIES ENGINE

CRANKSHAFT & RELATED PARTS (continued)	PART No	QTY
S/No's - Industrial 31B3784 - 31B3984, 49B796 - 49B1090		
S/No's - Marine 32B2224 - 32B2268, 50B914 - 50B1024		
Crankshaft	4M0447	1
Seal, Oil Front Std	8H7319	1
Seal, Oil Rear Std (Used with Std Bearings)	6H4498	1
Seal, Oil Rear Std (Used with O20" and above Bearings)	7H6747	1
Main Bearing Std (Intermediate)	9M2429	5
Main Bearing Std (Center)	9M2430	1
Main Bearing Std (Rear)	9M2431	1
Main Bearing O25" (Intermediate)	1S7573	5
Main Bearing O25" (Center)	1S7574	1
Main Bearing O25" (Rear)	1S7575	1
Main Bearing O50" (Intermediate)	1S7576	5
Main Bearing O50" (Center)	1S7577	1
Main Bearing O50" (Rear)	1S7578	1
Conrod Bearing Std	2M6499	6
Conrod Bearing O25"	2M6500	6
Conrod Bearing O50"	2M6501	6
Conrod Bushing	4M9183	6
Bolt, Conrod	9S8493	12
Nut, Conrod	9S8494	12
S/No's - Industrial 31B3985-up, 49B1091-up		
S/No's - Marine 32B2269-up, 50B1025-up		
S/No's - Vehicle 17S1-up		
Crankshaft	4S7436	1
Crankshaft (S/No 17S1-up)	6N2823	1
Seal, Oil Front Std	8H7319	1
Seal, Oil Front Std (S/No 17S1-up)	2S1509	1
Seal, Oil Front OS (S/No 17S1-up)	9N2539	1
Sleeve, Front, Seal (S/No 17S1-up)	9J0110	1
Seal, Oil Front Std	2W2191	1
Main Bearing Std (Intermediate)	8N7923	6
Main Bearing Std (Rear)	8N7928	1

CRANKSHAFT & RELATED PARTS (continued)	PART No	QTY
Main Bearing O25" (Intermediate)	8N7924	6
Main Bearing O25" (Rear)	8N7929	1
Main Bearing O50" (Intermediate)	8N7925	6
Main Bearing O50" (Rear)	8N7930	1
Conrod Assy	4M6867	6
Conrod Bushing	4M9183	6
Bolt, Conrod	9S8493	12
Nut, Conrod	9S8494	12

CAMSHAFT & RELATED PARTS	PART No	QTY
Camshaft Kit (Includes Lifters)	9Y3230	1
Camshaft	9Y3230	1
Bushing, Camshaft	4H9640	2
Bushing, Camshaft	8F8523	4

FUEL SYSTEM	PART No	QTY
S/No's - Industrial 31B1 - 31B3090, 49B1 - 49B311		
S/No's - Marine 32B1 - 32B1759, 50B1 - 50B286		
Valve Service Group	8M1584	6
Pump Assy, Fuel Injection	8M3280	6
Fuel Priming Pump (2W2604)	162-3904	1
S/No's - Industrial 31B3090-up, 49B312-up		
S/No's - Marine 32B1760-up, 50B287-up		
Valve Service Group	8M1584	6
Pump Assy, Fuel Injection	1P3409	6
Fuel Priming Pump (2W2604)	162-3904	1
S/No's - Vehicle 17S1-up		
Valve Service Group	8N1831	6
Plinger & Barrel, Fuel Inj Pump	1P6400	6
Fuel Priming Pump (2W2604)	162-3904	1

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## CATERPILLAR D342 SERIES ENGINE

GLOW PLUGS	PART No	QTY
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Lead Assy	6N0652	1
Glow Plug, 24V	3T9562	6

LUBRICATING SYSTEM	PART No	QTY
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Oil Pump	7N4170	1
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COOLING SYSTEM	PART No	QTY
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S/No's - Industrial 31B1-up, 49B1 - 49B646		
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S/No's - Marine 32B1-up, 50B1 - 50B675		
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Thermostat	9S3808	2
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S/No's - Industrial 49B647-up		
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S/No's - Marine 50B676-up		
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S/No's - Vehicle 17S1-up		
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Water Pump (S/No 17S1-up)	6N6015	1
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Oil Cooler Core (Engine)	6N9653	1
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Oil Cooler Core (Transmission)	7N0113	1
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Oil Cooler Core (Transmission)	2W0999	1
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Oil Cooler Core (Eng/Transmission)	4P7731	1
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Thermostat (167 deg - 172 deg)	120-9453	1
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Fully open temp 185 deg (614954)		
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COMMON GASKETS	PART No	QTY
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Gasket, Cylinder Head (Non-Spacer)	1S4390	2
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Gasket, Cylinder Head (Spacer)	8N4810	2
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Shim, Spacer Plate	7N3353	2
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Gasket, Rocker Cover	7N9352	2
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S/No's - Industrial 31B1-up, 49B1 - 49B1090		
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S/No's - Marine 32B1 -32B2268, 50B1 - 50B1024		
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Gasket, Oil Pan	4M4409	1
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S/No's - Industrial 49B1091-up		
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S/No's - Marine 32B2269-up, 50B1025-up		
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S/No's - Vehicle 17S1-up		
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Gasket, Oil Pan	2P3759	1
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TURBOCHARGER	PART No	QTY
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Turbo	6N7203	1
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Cartridge	6N7202	1
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Repair Kit, Cartridge	2W0719	1
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Turbo	8N5510	1
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Cartridge	8N5511	1
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Turbo	1N4695	1
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Cartridge	8N5511	1
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### TYPICAL APPLICATIONS

583 Pipelayer  
D8K Tractor  
D342 Vehicular Engine

## CATERPILLAR D343 SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Industrial 62B1-up		
S/No's - Marine 33B1-up		
S/No's - Vehicle 52K1-up		
Cylinder Kit	1P0698	6
Piston Body	9N2874	6
Piston Pin	7N9806	6
Retainer, Piston Pin	3F8513	12
Piston Ring Set	8N0822	6
Cylinder Liner	126-0739	6
Seal Kit, Cylinder Liner	5P8789	6

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head (Spacer Plate)	4N6765	1
Valve, Inlet	1N4885	12
Valve, Exhaust	7E7830	12
Valve Lock-Half	2A4429	48
Insert, Valve Seat Inlet Std	9M3205	12
Insert, Valve Seat Inlet 005" O/S	4S8898	12
Insert, Valve Seat Inlet 010" O/S	4S8899	12
Insert, Valve Seat Exhaust Std	1W5283	12
Insert, Valve Seat Exhaust 005" O/S	4S8902	12
Insert, Valve Seat Exhaust 010" O/S	4S8903	12
Guide, Inlet & Exh Valve	6N2236	24
Rotocoil (Includes Shield)	4N6761	24
Spring, Inlet & Exh Valve	2S4213	24
Precombustion Chamber	8S1523	6
Seal O Ring, Chamber	4F9653	6
Gasket, Chamber 354mm	5M2667	6
S/No's - Industrial 62B1 - 62B6727		
S/No's - Marine 33B1 - 33B3027		
Ferrule	3H5887	24
Seal, Ferrule	3H5912	24
S/No's - Industrial 62B6728-up		
S/No's - Marine 33B3028-up		
Ferrule	9S5747	24
Seal, Ferrule	9S5746	24

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	2P3859	1
Seal, Oil Front Std	2S1509	1
Seal, Oil Front OS	9N2539	1
Sleeve, Front, Seal	9J0110	1
Seal, Oil Rear Std	2W6763	1
Main Bearing Std (Intermediate)	7W2138	6
Main Bearing Std (Rear)	7W2137	1
Main Bearing 025" (Intermediate)	8N5346	6
Main Bearing 025" (Rear)	8N5341	1
Main Bearing 050" (Intermediate)	8N5347	6
Main Bearing 050" (Rear)	8N5342	1
Conrod Bearing Std	7W2136	6
Conrod Bearing 025"	8N5339	6
Conrod Bearing 050"	8N5338	6
Conrod Bushing	1M6107	6

CAMSHAFT & RELATED PARTS	PART No	QTY
Camshaft Kit (Includes Lifters)	9Y3231	1
Camshaft (Intake)	9Y3231	1
Camshaft Kit (Includes Lifters)	9Y3232	1
Camshaft (Exhaust)	9Y3232	1
Bushing, Camshaft	5M3603	2
Bushing, Camshaft	5M3560	12

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## CATERPILLAR D343 SERIES ENGINE

CATERPILLAR D343 SERIES ENGINE

FUEL SYSTEM	PART No	QTY
S/No's - Industrial 62B1 - 62B1868		
S/No's - Marine 33B1 - 33B677, 33B1116 - 33B3027		
Valve Service Group	8N3176	6
Pump Assy, Fuel Injection	8M2667	6
Fuel Priming Pump (2W2605)	183-2823	1
S/No's - Industrial 62B1869 - 62B6727		
S/No's - Marine 33B678 - 33B1115		
Valve Service Group	8N1831	6
Pump Assy, Fuel Injection	8M2667	6
Fuel Priming Pump (2W2605)	183-2823	1
S/No's - Industrial 62B6728-up		
S/No's - Marine 33B3028 - 33B7441		
Valve Service Group	8N1831	6
Plunger & Barrel Assy	8S3656	6
Fuel Priming Pump (2W2604)	162-3904	1
S/No's - Marine 33B7442-up		
Valve Service Group	8N3176	6
Plunger & Barrel Assy	8S3656	6
Fuel Priming Pump (2W2604)	162-3904	1

GLOW PLUGS	PART No	QTY
Glow Plug, 24V	3T9562	6

LUBRICATING SYSTEM	PART No	QTY
Oil Pump	9S1195	1

COOLING SYSTEM	PART No	QTY
Oil Cooler Core (Engine)	6N9213	1
Oil Cooler Core (Engine)	6N9220	1
Oil Cooler Core (Transmission)	2W0999	1
Oil Cooler Core (Eng./Transmission)	4P7731	1
Thermostat (167 deg - 172 deg)	120-9453	2
Fully open temp 185 deg (614954)		

COMMON GASKETS	PART No	QTY
Gasket, Cylinder Head (Spacer)	3S9686	1
Shim, Spacer Plate	3S9988	1
Gasket, Rocker Cover	7M7226	1
Gasket, Oil Pan	1M6724	1

### TYPICAL APPLICATIONS

657, 657B Scraper  
666, 666B Scraper  
768B Scraper  
769, 769B Scraper  
824B Wheel Tractor  
825B Wheel Tractor  
826B Wheel Tractor  
983 Traxcavator  
988 Wheel Loader



## CATERPILLAR D353 SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Industrial 46B1 - 46B5724, 77B1-up		
S/No's - Vehicle 97U1 - 97U5465		
S/No's - Marine 47B1 - 47B4016		
Cylinder Kit	KM0354	6
Piston Body	7N4515	6
Piston Pin	7N9810	6
Retainer, Piston Pin	7M4926	12
Piston Ring Set	1W5105	6
Cylinder Liner	8N9174	6
Seal Kit, Cylinder Liner	5P8970	6
S/No's - Industrial 46B5725-up		
S/No's - Vehicle 97U5466-up		
S/No's - Marine 47B4017-up		
Cylinder Kit	KM0353	6
Piston Body	7N5036	6
Piston Pin	7N9810	6
Retainer, Piston Pin	7M4926	12
Piston Ring Set	1N3601	6
Cylinder Liner	8N9174	6
Seal Kit, Cylinder Liner	5P8970	6

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head (Non-Spacer Plate)	7N6340	2
Cylinder Head (Spacer Plate)	7N3630	2
Valve, Inlet (1/2" Stem)	7M7817	6
Valve, Exhaust (1/2" Stem)	8N3723	6
Guide, Inlet Valve (1/2" Stem)	4N3664	6
Guide, Exhaust Valve (1/2" Stem)	6N8847	6
Spacer, Valve Guide	3N1414	12
Valve Lock (3 per Valve)	3B1143	36
Valve, Inlet (3/8" Stem)	1W3606	6
Valve, Exhaust (3/8" Stem)	1W1822	6
Guide, Inlet Valve (3/8" Stem)	2N9298	6
Guide, Exhaust Valve (3/8" Stem)	2N9299	6
Spacer, Valve Guide	3N1414	12
Valve Lock (2 per Valve)	2A4429	24
Insert, Valve Seat Inlet Std	5S1757	6
Insert, Valve Seat Inlet 005" O/S	4S8908	6
Insert, Valve Seat Inlet 010" O/S	4S8909	6
Insert, Valve Seat Exhaust Std	8M4014	6
Insert, Valve Seat Exhaust 005" O/S	4S8906	6
Insert, Valve Seat Exhaust 010" O/S	4S8907	6
S/No's - Industrial 46B1 - 46B2379, 77B1 - 77B276		
S/No's - Marine 47B1 - 47B1668		
Spring, Inlet & Exh Valve (Outer)	4F5408	12
Spring, Inlet & Exh Valve (Inner)	4F5409	12
Rotocoil	7F7666	12
S/No's - Industrial 46B2380 - 46B4436, 77B277-up		
S/No's - Vehicle 97U1 - 97U5911		
S/No's - Marine 47B1669 - 47B3101		
Spring, Inlet & Exh Valve	7S3623	12
Rotocoil	7N7639	12

## CATERPILLAR D353 SERIES ENGINE

CYLINDER HEAD COMPONENTS (Continued)	PART No	QTY
S/No's - Industrial 46B4437-up		
S/No's - Vehicle 97U5912-up		
S/No's - Marine 47B3102-up		
Spring, Inlet & Exh Valve (Outer)	9M5350	12
Spring, Inlet & Exh Valve (Inner)	9M5349	12
Rotocoil	7N7639	12
Push Rod	4H9772	12
Lifter	2H3069	12
Precombustion Chamber	7S5787	6
Seal O Ring, Chamber	6L7816	6
Gasket, Chamber 460mm	1P8005	6
Gasket, Chamber 368mm	1P8004	6
Director, Water	5H7071	24
Ferrule	6B6224	24
Seal, Ferrule	6L7813	24
Ferrule	7B2420	16
Seal, Ferrule	6L7814	16

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	2P2800	1
Seal, Oil Front Std	2W6769	1
Seal, Oil Rear Std	2W2191	1
S/No's - Industrial 46B1 - 46B2275, 77B1 - 77B235		
S/No's - Marine 47B1 - 47B1447		
Main Bearing Std (Front)	9M3893	1
Main Bearing Std (Intermediate)	9M3894	4
Main Bearing Std (Center)	9M3895	1
Main Bearing Std (Rear)	9M3896	1
Main Bearing 025" (Front)	9M4872	1
Main Bearing 025" (Intermediate)	9M4873	4
Main Bearing 025" (Center)	9M4874	1
Main Bearing 025" (Rear)	9M4875	1
Main Bearing 050" (Front)	9M4877	1
Main Bearing 050" (Intermediate)	9M4878	4
Main Bearing 050" (Center)	9M4879	1
Main Bearing 050" (Rear)	9M4880	1

CRANKSHAFT & RELATED PARTS (Continued)	PART No	QTY
Conrod Bearing Std	1N4336	6
Conrod Bearing 025"	1N4337	6
Conrod Bearing 050"	1N4338	6
Conrod Bushing	8N2275	6
S/No's - Industrial 46B2276-up, 77B236-up		
S/No's - Vehicle 97U1-up		
S/No's - Marine 47B1448-up		
Main Bearing Std (Front)	1N4316	1
Main Bearing Std (Intermediate)	1N4317	4
Main Bearing Std (Center)	1N4318	1
Main Bearing Std (Rear)	1N4331	1
Main Bearing 025" (Front)	1N4319	1
Main Bearing 025" (Intermediate)	1N4320	4
Main Bearing 025" (Center)	1N4321	1
Main Bearing 025" (Rear)	1N4332	1
Main Bearing 050" (Front)	1N4322	1
Main Bearing 050" (Intermediate)	1N4323	4
Main Bearing 050" (Center)	1N4324	1
Main Bearing 050" (Rear)	1N4333	1
Conrod Bearing Std	1N4336	6
Conrod Bearing 025"	1N4337	6
Conrod Bearing 050"	1N4338	6
Conrod Bushing	8N2275	6

CAMSHAFT & RELATED PARTS	PART No	QTY
Camshaft	129-8364	1
Bushing, Camshaft	2H7878	1
Bushing, Camshaft	2H2330	6

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## CATERPILLAR D353 SERIES ENGINE

FUEL SYSTEM	PART No	QTY
S/No's - Industrial 46B1 - 46B808		
S/No's - Marine 47B1 - 47B408		
Valve Service Group	5H7936	6
Pump Assy, Fuel Injection	8M3138	6
Fuel Priming Pump (2W2605)	183-2823	1
S/No's - Industrial 46B809 - 46B5064		
S/No's - Marine 47B409 - 47B3509		
Valve Service Group	7M7431	6
Pump Assy, Fuel Injection	2S7264	6
Fuel Priming Pump (2W2605)	183-2823	1
S/No's - Industrial 46B5065-up, 77B1-up		
S/No's - Vehicle 97U1-up		
S/No's - Marine 47B3510-up		
Valve Service Group	8N1831	6
Pump Assy, Fuel Injection	2S7264	6
Fuel Priming Pump (2W2605)	183-2823	1

GLOW PLUG GROUP	PART No	QTY
Lead Assy	6N0652	6
Glow Plug, 24V	3T9562	6
Switch Assy	7N4160	1

LUBRICATING SYSTEM	PART No	QTY
Oil Pump	6N2450	1

COOLING SYSTEM	PART No	QTY
S/No's - Industrial 46B1 - 46B869		
S/No's - Vehicle 97U1-up		
S/No's - Marine 47B1 - 47B469		
Oil Cooler Core	6N9654	1
Oil Cooler Core (D9G) (6N9245) (Eng/Transmission) (97U1-up)	7W6459	1
S/No's - Industrial 46B870-up, 77B1-up		
Oil Cooler Core (7N0125)	125-2728	1
Thermostat (167 deg - 172 deg) Fully open temp 185 deg (6I4954)	120-9453	2

COMMON GASKETS	PART No	QTY
Gasket, Cylinder Head (Non-Spacer)	8M2970	2
Gasket, Cylinder Head (Spacer)	1W6440	2
Shim, Spacer Plate	7N3033	2
Gasket, Rocker Cover	8N7892	1
Gasket, Oil Pan	2L3451	1
Gasket, Oil Pan (S/No 97U1-up)	7H3249	1

### TYPICAL APPLICATIONS

594, 594H Pipelayer  
D9G, D9H Tractor

The **KMP BRAND** **Engine Book**  
SUITABLE FOR  
**CATERPILLAR**

**CATERPILLAR D398 SERIES ENGINE**

CATERPILLAR D398 SERIES ENGINE

CYLINDER COMPONENTS	PART No	QTY
S/No's - Industrial 6681-up, 7581-up		
S/No's - Genset 3521-up		
S/No's - Marine 6781-up		
Pre-Combustion (Rectangular Ring) (Heat Plug)		
Cylinder Kit	KM0354	12
Piston Body	7N4515	12
Piston Pin	7N9810	12
Retainer, Piston Pin	7M4926	24
Piston Ring Set	1W5105	12
Cylinder Liner	8N9174	12
Seal Kit, Cylinder Liner	5P8970	12
Pre-Combustion (Keystone Ring) (Heat Plug)		
Cylinder Kit	KM0353	12
Piston Body	7N5036	12
Piston Pin	7N9810	12
Retainer, Piston Pin	7M4926	24
Piston Ring Set	1N3601	12
Cylinder Liner	8N9174	12
Seal Kit, Cylinder Liner	5P8970	12

CYLINDER HEAD COMPONENTS	PART No	QTY
Cylinder Head	7L0138	6
Valve, Inlet (1/2" Stem)	7M7817	12
Valve, Exhaust (1/2" Stem)	8N3723	12
Guide, Inlet Valve (1/2" Stem)	4N3664	12
Guide, Exhaust Valve (1/2" Stem)	6N8847	12
Spacer, Valve Guide	3N1414	24
Valve Lock (3 per Valve)	3B1143	72
Valve, Inlet (3/8" Stem)	1W3606	12
Valve, Exhaust (3/8" Stem)	1W1822	12
Guide, Inlet Valve (3/8" Stem)	2N9298	12
Guide, Exhaust Valve (3/8" Stem)	2N9299	12
Spacer, Valve Guide	3N1414	24
Valve Lock (2 per Valve)	2A4429	48
Insert, Valve Seat Inlet Std	5S1757	12
Insert, Valve Seat Inlet 005" O/S	4S8908	12
Insert, Valve Seat Inlet 010" O/S	4S8909	12
Insert, Valve Seat Exhaust Std	8M4014	12
Insert, Valve Seat Exhaust 005" O/S	4S8906	12
Insert, Valve Seat Exhaust 010" O/S	4S8907	12

CYLINDER HEAD COMPONENTS (Continued)	PART No	QTY
Spring, Inlet & Exh Valve (Outer)	9M5350	24
Spring, Inlet & Exh Valve (Inner)	9M5349	24
Rotocoil	7N7639	24
Push Rod	4L7820	24
Lifter	102-1561	24
Precombustion Chamber	7S5787	12
Seal O Ring, Chamber	6L7816	12
Gasket, Chamber 460mm	1P8005	12
Gasket, Chamber 368mm	1P8004	12
Director, Water	5H7071	48
Ferrule	6B6224	48
Seal, Ferrule	6L7813	48
Ferrule	7B2420	36
Seal, Ferrule	6L7814	36
Gasket, Cylinder Head	3N3220	6
Gasket, Rocker Cover	2N3597	6

CRANKSHAFT & RELATED PARTS	PART No	QTY
Crankshaft	4W7614	1
Seal, Oil Front Std	3N9160	1
Seal Group, Front	4W2606	1
Seal, Oil Rear Std	3N9160	1
Seal Group, Rear	4W2607	1
Main Bearing Std	8N7764	7
Main Bearing 025"	8N7765	7
Main Bearing 050"	8N7766	7
Thrust Washer	4L4653	2
Conrod Bearing Std	8N7769	12
Conrod Bearing 025"	8N7770	12
Conrod Bearing 050"	8N7771	12
Conrod Bushing	8N2275	12

IT IS RECOMMENDED TO CHECK PART NUMBERS PRIOR TO ORDERING  
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