

IPD parts for Caterpillar® G399 Engines

VALVE TRAIN AND CYLINDER HEAD COMPONENTS			
DESCRIPTION	PART NUMBER	QTY. REQ.	COMMENTS
Engine Serial # 49C 1 - Up			
For Cylinder Heads Using 3/8" Stem Valves			
Valve , Exhaust	2W3211	16	
Valve , Intake	1W8606	16	
Guide, Exhaust	2N9299	16	
Guide, Intake	2N9298	16	
Insert, Valve Seat Exhaust	1S5738	16	
Insert, Valve Seat Intake	5S1757	16	
Valve Lock	2A4429	64	
Rotocoil	7N7639	32	Use With Correct Springs
Spring, Valve Inner (Double)	9M5349	32	Use With 7N7639 Rotocoil
Spring, Valve Outer (Double)	9M5350	32	Use With 7N7639 Rotocoil
Spring, Valve (Single)	7S6323	32	Use With 7N7639 Rotocoil
Shield	8N7780	16	
Retainer, Spring Exhaust	2N9297	16	
Retainer, Spring Intake	1W3062	16	Includes 8N7780 Shield
Spacer, Valve Guide	3N1414	32	
Button, Rocker Arm	8F8858	32	
Ring, Button Retaining	9F7707	32	For 8F8858
Screw, Rocker Arm Adjusting	1A0744	32	
Bushing, Rocker Arm	3F7445	32	
Plug	3B0645	64	8 Per Cylinder Head
Spark Plug Adapter	7L0918	16	
Spark Plug Adapter Gasket	6L1576	16	Metal Gasket
Spark Plug Adapter Seal	6L7816	16	
Lifter, Valve	1021561	32	
Director, Water	5H7071	64	
For Cylinder Heads Using 1/2" Stem Valves			
Valve , Exhaust	5S5323	16	
Valve , Intake	7M7817	16	
Guide, Exhaust	6N8847	16	
Guide, Intake	4N3664	16	
Insert, Valve Seat Exhaust	1S5738	16	
Insert, Valve Seat Intake	5S1757	16	
Valve Lock	3B1143	96	
Rotocoil	7N7639	32	Use With Correct Springs

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For Cylinder Heads Using 1/2" Stem Valves Continued			
DESCRIPTION	PART NUMBER	QTY. REQ.	COMMENTS
Spring, Valve Inner (Double)	9M5349	32	Use With 7N7639 Rotocoil
Spring, Valve Outer (Double)	9M5350	32	Use With 7N7639 Rotocoil
Spring, Valve (Single)	7S6323	32	Use With 7N7639 Rotocoil
Shield	8N7780	16	
Retainer, Spring Exhaust	3B1142	16	
Retainer, Spring Intake	3H5867	16	Use with 8F9206
Spacer, Valve Guide	3N1414	32	
Button, Rocker Arm	8F8858	32	
Ring, Button Retaining	9F7707	32	
Screw, Rocker Arm Adjusting	1A0744	32	
Bushing, Rocker Arm	3F7445	32	
Plug	3B0645	64	8 Per Cylinder Head
Spark Plug Adapter	7L0918	16	
Spark Plug Adapter Gasket	6L1576	16	Metal Gasket
Spark Plug Adapter Seal	6L7816	16	
Lifter, Valve	1021561	32	
Director, Water	5H7071	64	
GASKET SETS AND MISCELLANEOUS GASKETS			
Overhaul Gasket Set	9S4317	1	49C 1 - 261
Overhaul Gasket Set	399121	1	49C 261 - Up - Up Non Turbocharged
Overhaul Gasket Set (Composite)	399121CP	1	49C 261 - Up - Up Non Turbocharged
Overhaul Gasket Set	399131	1	49C 261 - Up Turbocharged, Aftercooled
Overhaul Gasket Set (Composite)	399131CP	1	49C 261 - Up Turbocharged, Aftercooled
In Frame Gasket Set	399122	1	49C 261 - Up - Up Non Turbocharged
In Frame Gasket Set (Composite)	399122CP	1	49C 261 - Up - Up Non Turbocharged
In Frame Gasket Set	399132	1	49C 261 - Up Turbocharged, Aftercooled
In Frame Gasket Set (Composite)	399132CP	1	49C 261 - Up Turbocharged, Aftercooled
Multiple Cylinder Head Gasket Set	399123	1	49C 261 - Up - Up Non Turbocharged
Multiple Cylinder Head Gasket Set	399123CP	1	49C 261 - Up - Up Non Turbocharged
Multiple Cylinder Head Gasket Set	399133	1	49C 261 - Up Turbocharged, Aftercooled
Multiple Cylinder Head Gasket Set	399133CP	1	49C 261 - Up Turbocharged, Aftercooled
Single Cylinder Head Gasket Set	399054	8	49C 1 - Up Includes Ferrule Assemblies
Single Cylinder Head Gasket Set	399054CP	8	49C 1 - Up Includes Ferrule Assemblies
Cylinder Head Gasket (Metal Clad)	3N3220	8	
Cylinder Head Gasket (Composite)	3N3220CP	8	

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GASKET SETS AND MISCELLANEOUS GASKETS Continued			
DESCRIPTION	PART NUMBER	QTY. REQ.	COMMENTS
Gasket, Oil Pan	8L5457	1	
Gasket, Side Door	1F9223	8	
Gasket, Valve Cover	6L3352	8	Old Style
Seal, Valve Cover	2N3597	8	New Style
Gasket, Water Cover	1F4419	8	
Water Pump Gasket Set	8S1892	1	Check Serial Number
Water Pump Gasket Set	6V6384	1	49C 261 - 567
Water Pump Gasket Set	6V6385	1	49C 568 - Up
Water Pump Gasket Set	6V5427	1	For 2N0955 Water Pump Group
NOTE: " CP " following part number indicates set contains IPD Composite Cylinder Head Gasket			
ENGINE BEARINGS AND BUSHINGS			
Main Bearing Standard	8N7764	9	
Main Bearing .025"	8N7765	9	
Main Bearing .050"	8N7766	9	
Rod Bearing Standard	8N7769	16	
Rod Bearing .025"	8N7770	16	
Rod Bearing .050"	8N7771	16	
Thrust Plates	4L4653	2	
Cam Bearing	5L2894	9	
Bushing, Connecting Rod	8N2275	16	
Bushing, Rocker Arm	3F7445	32	
CYLINDER KITS AND COMPONENTS			
Piston and Liner Assembly	PLG3S1824	16	7.0 : 1 CR
Piston and Liner Assembly	PLG3S1826	16	10.0 : 1 CR
Piston Body	3S1824	16	7.0 : 1 CR
Piston Body	3S1826	16	10.0 : 1 CR
Ring Group	1W6055	16	
Liner, Cylinder	8N9174	16	
Pin, Piston	7N9810	16	
Retainer, Piston Pin	7M4926	32	
Gasket Kit (Liner O Rings and Seal)	5P8970	16	Contains 3 - 6L7815 and 1 - 8N4708

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COOLING SYSTEM COMPONENTS			
DESCRIPTION	PART NUMBER	QTY. REQ.	COMMENTS
Regulator, Water Temperature 170'	6I4954	4	170 Degree
Regulator, Water Temperature 180'	4W4794	4	180 Degree
Regulator, Water Temperature 190'	7C3095	4	190 Degree
Regulator, Water Temperature 170'	1209453	4	New Sealed Design
Regulator, Water Temperature 180'	2485513	4	New Sealed Design
Regulator, Water Temperature 190'	2477133	4	New Sealed Design
Gasket, Regulator Housing	2N0741	4	
Seal, Regulator	3S9643	4	
Water Pump Rebuild Kit	1W7080	1	Contains 5N4378 Water Pump Shaft
Seal Assembly	4N7526	1	Large Case
Seal Assembly	1664376	1	
Shaft, Water Pump	5N4378	1	Long Shaft
Shaft, Water Pump	5N1883	1	Short Shaft
Seal, O Ring	1H8278	1	
Ring	2S3966	1	Use With 4N7526
Washer, Sealing	5L5840	8	
Seal, Rubber	3S3535	1	Use With 2S3966
Gasket, Shim	4L6706	A/R	Use 1 to 10
Gasket, Drain Plug	5B3265	1	
Gasket, Water Pump Mounting	4L3437	1	
Bearing, Water Pump	4L3756	1	
Bearing, Fresh Water Pump	5L2660	1	
Lock	7F7510	A/R	
Seal	8J6775	8	
Gasket, Retainer	4L9965	1	
Seal, Shaft Oil	2N2560	1	
Washer, Hardened	5M2894	8	Use With 5L5840
Adapter	6N4744	1	Use With 6N9313
Seal Ring (Metal)	6N5476	1	Use With 6N9313
Seal Ring (Rubber)	6N5475	1	Use With 6N9313
Tube, Water	5L9371	16	Cast Iron
Seal Ring, Water Tube	6L7817	16	
Oil Cooler Core	6N9236	1	(New)

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MISCELLANEOUS COMPONENTS			
DESCRIPTION	PART NUMBER	QTY. REQ.	COMMENTS
Crankshaft Components			
Seal, Front Directional	4W2606	1	Standard Rotation
Seal, Rear Directional	4W2607	1	Standard Rotation
Seal Group, Crankshaft Conversion	4W2568	1	Front Standard Rotation
Seal Group, Crankshaft Conversion	4W2569	1	Rear Standard Rotation
Seal Group, Crankshaft Conversion	4W2570	1	Front Opposite Rotation
Seal Group, Crankshaft Conversion	4W2571	1	Rear Opposite Rotation
Adapter, Crankshaft Seal	4W2566	1	Front Standard Rotation
Adapter, Crankshaft Seal	4W2567	1	Rear Standard Rotation
Adapter Gasket	5L2093	2	
Baffle	8L3972	2	
Cylinder Block Repair			
Sleeve, " Z " Stepped	1W6265	A/R	" Z " Type
Sleeve, " Z " Stepped	1W6266	A/R	" Z " Type
Sleeve, " Z " Stepped	1W6267	A/R	" Z " Type
Sleeve, Cast Iron	5P0936	A/R	" L " Type