

# IPD parts for Caterpillar® G3412 Engines

<b>VALVE TRAIN AND CYLINDER HEAD COMPONENTS</b>			
<b>DESCRIPTION</b>	<b>PART NUMBER</b>	<b>QTY. REQ.</b>	<b>COMMENTS</b>
<b>Engine Serial # 7DB , 3NK , 6ZM , 8LW</b>			
Valve , Exhaust	2W2443	24	30 Degree 7.14" Length
Valve , Exhaust	1018314	24	20 Degree 7.14" Length
Valve , Intake	1227353	24	Use With 1227352
Guide, Intake & Exhaust	1511330	48	With Correct Serial Number
Insert, Valve Seat Exhaust	4W4325	24	30 Degree
Insert, Valve Seat Exhaust	1986529	24	20 Degree
Insert, Valve Seat Intake	4N5893	24	
Insert, Valve Seat Intake	1227352	24	Use With 1227353
Valve Lock	2A4429	96	
Rotocoil	6N7175	48	Includes 6N7174
Rotocoil	6N7154	48	No Shield
Shield	6N7174	48	Oil Shield ( As Needed )
Spring, Valve	4N5906	48	
Valve Lifter	1055139	24	With Correct Serial & Arrangement #
Valve Lifter Repair Kit	1055139RK	24	
Spring, Lifter Guide	3056843	24	Lifter Clip
Plug, Cup	3B0623	24	
Plug, Cup	3B0645	20	
Spark Plug Adapter	7W3860	12	With Correct Serial Number
Spark Plug Adapter Gasket	2N7174	12	Metal Gasket
Spark Plug Adapter Seal	2S2251	12	
Water Seal	3E6772	24	
<b>Engine Serial # 7DB , 3NK , 6ZM , 8LW ( Thick Cylinder Heads Only )</b>			
Valve , Exhaust	2120933	24	20 Degree 7.62" Length
Valve , Intake	2120932	24	20 Degree 7.62" Length
Guide, Exhaust	2137537	24	
Guide, Intake	2137536	24	
Insert, Valve Seat Exhaust	1986529	24	20 Degree
Insert, Valve Seat Intake	1227352	24	20 Degree
Valve Lock	2A4429	96	
Rotocoil	6N7154	48	No Shield
Spring, Valve	4N5906	48	
Valve Lifter	1055139	24	With Correct Serial & Arrangement #
Valve Lifter Repair Kit	1055139RK	24	
Spring, Lifter Guide	3056843	24	Lifter Clip
Plug, Cup	3B0623	24	
Plug, Cup	3B0645	20	
Spark Plug Adapter Gasket	2N7174	12	Metal Gasket
Spark Plug Adapter Seal	2S2251	12	
Water Seal	3E6772	24	

# IPD parts for Caterpillar® G3412 Engines

<b>GASKET SETS AND MISCELLANEOUS GASKETS</b>			
<b>DESCRIPTION</b>	<b>PART NUMBER</b>	<b>QTY. REQ.</b>	<b>COMMENTS</b>
Overhaul Gasket Set	412091	1	7DB1 - UP Non Turbo
Overhaul Gasket Set	412111	1	7DB1 - UP Turbo Aftercooled
Multiple Cylinder Head Gasket Set	412093	1	7DB1 - UP Non Turbo
Multiple Cylinder Head Gasket Set	412113	1	7DB1 - UP Turbo Aftercooled
Single Cylinder Head Gasket Set	412114	A/R	7DB1 - UP Single Head Set
Oil Pan Gasket	4N1151	1	Puzzle Style
Oil Pan Gasket	4N1151-12	1	1 Piece Pan Gasket
Valve Cover Gasket	5P5678-13	1	(Both Valve Covers)
Valve Cover Gasket	5P5678-07	1	( One Valve Cover )
Water Pump Gasket Set	6V2543	1	With Correct Serial Number
Water Pump Gasket Set	1036192	1	With Correct Serial Number
Water Pump Gasket Set	2177884	1	With Correct Serial Number
<b>ENGINE BEARINGS AND BUSHINGS</b>			
Main Bearing Standard	3215746	7	
Main Bearing .010"	4W5492-010	A/R	
Main Bearing .025"	4W5698	A/R	
Main Bearing .050"	4W5699	A/R	
Rod Bearing Standard	9Y9497G	12	Narrow Journal Crankshaft ( 1.535" Wide )
Rod Bearing .010"	9Y9497G-010	A/R	Narrow Journal Crankshaft ( 1.535" Wide )
Rod Bearing .025"	4W5702G	A/R	Narrow Journal Crankshaft ( 1.535" Wide )
Rod Bearing .050"	4W5703G	A/R	Narrow Journal Crankshaft ( 1.535" Wide )
Rod Bearing Standard	9Y7735G	12	Wide Journal Crankshaft ( 1.930 " Wide )
Rod Bearing .025"	7E0558	A/R	Wide Journal Crankshaft ( 1.930 " Wide )
Rod Bearing .050"	7E0559	A/R	Wide Journal Crankshaft ( 1.930 " Wide )
Thrust Plate	2531752	2	
Cam Bearing	4N0685	5	
Cam Bearing	4N6658	2	
Bushing, Connecting Rod	8N0705	12	Straight Rods
Bushing, Connecting Rod	8N0706	12	Narrow Tapered Rods ( 1.540" Wide )
Bushing, Connecting Rod	8N2018	12	Wide Tapered Rods ( 1.850" Wide )
Bushing, Connecting Rod	4P8495	12	Wide Tapered Rods With Relief on ID

# IPD parts for Caterpillar® G3412 Engines

<b>CYLINDER KITS AND COMPONENTS</b>			
<b>DESCRIPTION</b>	<b>PART NUMBER</b>	<b>QTY. REQ.</b>	<b>COMMENTS</b>
Piston and Liner Assembly	PLG7E3888	12	10.0 : C.R.
Piston and Liner Assembly	PLG4P8996	12	Gallery Cooled 9.7 : 1 C.R.
Piston and Liner Assembly	PLG1607994	12	8.5 : 1 C.R.
Piston and Liner Assembly	PLG7E3888/CS	12	IPD Crevice Style Liner
Piston and Liner Assembly	PLG4P8996/CS	12	IPD Crevice Style Liner
Piston and Liner Assembly	PLG1607994/CS	12	IPD Crevice Style Liner
Piston Body	7E3888	12	10.0 : C.R.
Piston Body	4P8996	12	Gallery Cooled 9.7 : 1 C.R.
Piston Body	1607994	12	8.5 : 1 C.R.
Ring Group	7E3888SI	12	For Use Only With 7E3888 Piston
Ring Group	G3400RS	12	
Liner, Cylinder	2W6000	12	
Liner, Cylinder Crevice Seal Design	2W6000CSWS	12	IPD Crevice Style Liner With Seals
Pin, Piston	8N1608	12	
Retainer, Piston Pin	7E5665	24	
Gasket Kit (Liner O Rings and Seal)	1183732	12	Contains 3 - 1102220 and 1 - 9L5854
Gasket Kit (Liner O Rings and Seal)	1183732CS	12	Crevice Seal Design Liner Only
<b>COOLING SYSTEM COMPONENTS</b>			
Regulator, Water Temperature 180'	4W4794	2	180 Degree
Regulator, Water Temperature 190'	7C3095	2	190 Degree
Regulator, Water Temperature 180'	2485513	2	New Sealed Design
Regulator, Water Temperature 190'	2477133	2	New Sealed Design
Seal, Regulator	3S9643	2	
Water Pump Rebuild Kit	1293068	1	With Correct Serial & Arrangement #
Water Pump Rebuild Kit	1293069	1	With Correct Serial & Arrangement #
Water Pump Rebuild Kit	1386744	1	With Correct Serial & Arrangement #
Seal Group, Water Pump	4W3864	1	With Correct Serial & Arrangement #
Seal Group, Water Pump	1313815	1	With Correct Serial & Arrangement #
Seal Group, Water Pump	1280317	1	With Correct Serial & Arrangement #
Shaft, Water Pump	1354928	1	With Correct Serial & Arrangement #
Seal, Oil	8C3100	1	
Adapter, Inlet	1012749	1	With Correct Serial Number
Bearing Assembly, Water Pump	1087930	1	With Correct Serial Number ( roller type )
Bearing, Water Pump	1B3867	1	With Correct Serial Number
Bearing, Water Pump	2L5271	1	With Correct Serial Number

# IPD parts for Caterpillar® G3412 Engines

MISCELLANEOUS COMPONENTS			
DESCRIPTION	PART NUMBER	QTY. REQ.	COMMENTS
<b>Crankshaft Components</b>			
Crankshaft	1W6213	1	With Correct Serial Number
Crankshaft	2W4088	1	With Correct Serial Number
Crankshaft Seal, Rear	1425868	1	Standard Rotation
Crankshaft Seal, Front	1425867	1	Standard Rotation
<b>Cylinder Block Repair</b>			
Insert, Stainless Steel	9Y3368	A/R	.032" Thick
Insert, Stainless Steel	2W3815	A/R	.062" Thick