

CATERPILLAR



ENGINE: 3054

BORE: 3.938"	4 Cyl	Diesel	Notes: Natural Aspirated, 1.375" Pin
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APPLICATION: Gensets: 4ZK, GSM; Industrial Engines: 6FK; Machine Engines: 5HK, 9RM;
Compactors: CP323C, CS323C, CS431C, CP433C, CS433C, CB434B, CB434C, CB544, CB545, PS150B;
Backhoe/Loaders: Cat 416B, 416C, 428B, 428C; Excavators: Cat 307; Telehandlers: TH62, 63, 82, 83;

Provide Engine
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Number

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	974411	In-Frame Kit				I
	1	975411	Out-of-Frame Kit			O	
	1	976411	Major Kit		M		
	1	977411	Premium Kit (979149 Dual Spring Valve Train Kit Included)	P			
	4	171172	Sleeve & Piston Assembly, 1st Design	P	M	O	I
	4	171386	Sleeve & Piston Assembly, 2nd Design				
	4	171173	Piston Kit, 1st Design (Includes Rings)				
	4	171395	Piston Kit, 2nd Design (Includes Rings)				
	4	171266	Cylinder Liner (Flange/Finished/No Fire Dam/4.1035" OD) (1)				
	4	171365	Cylinder Liner (Flange/Semi-Finished/No FD/4.1055" OD) (2)				
	4	171468	005 Liner Shim				
	4	171193	Piston Ring Set, 1st Design (2-2.5MM 1-4MM)				
	4	171412	Piston Ring Set, 2nd Design (2-2.5MM 1-4MM)				
	4	271261	STD Rod Bearing (Locating Tangs For Notched Rods)	P	M	O	I
	4	271262	.010 Rod Bearing (Locating Tangs For Notched Rods)				
	4	271263	.020 Rod Bearing (Locating Tangs For Notched Rods)				
	4	271264	.030 Rod Bearing (Locating Tangs For Notched Rods)				
	1	271161	STD Main Set, wo/Thrust Washers	P	M	O	I
	1	271162	.010 Main Set, wo/Thrust Washers				
	1	271163	.020 Main Set, wo/Thrust Washers				
	1	271164	.030 Main Set, wo/Thrust Washers "Additional Sizes (5)"				
	1	271119	STD Thrust Washer Set (Offset Lug)	P	M	O	I
	1	271125	.007 Thrust Washer Set (Offset Lug)				
	1	271126	.010 Thrust Washer Set (Offset Lug)				
	1	371377	Head Gasket Set	P	M	O	I
	1	371155	Head Gasket				
	1	371218	Valve Cover Gasket (Aluminum Cover)				
	1	371221	Valve Cover Gasket (Composite Cover)				
	8	371143	Valve Seal				
	1	371394	Lower Gasket Set wo/Seals	P	M	O	
	1	371393	Timing Cover Gasket				
	1	371167	Pan Gasket Set (Cast Pan / Includes 6 Flange Gaskets)				I
	1	371282	Pan Gasket (Steel Pan)				I
	1	371146	Front Crank Seal (Viton Lip Type) (6)	P	M	O	
	1	371145	Rear Crank Seal: (7) (Viton Lip Type) (9)	P	M	O	
	1	371297	Rear Crank Seal: (8) (Housing w/Integral Seal) (10) (11)				
	4	271176	Pin Bushing (1.375" Pin)	P	M		
	1	271127	Cam Bearing (Finished ID)	P	M		
	8	771151	Connecting Rod Bolt	P	M		
	8	771148	Connecting Rod Nut	P	M		
	1	771319	Head Bolt Kit (22 Bolts)				

(1).010 OS Finished Liner - 171267

(2).020 OS Semi-Finished Liner - 171516

(5)Main Bearings: .040 - 271165 / .050 - 271166 / .060 - 271167

(6)Wear Sleeve - 301115

(7)4ZK Thru 8846; 5HK; 6FK Thru 10030; 9RM Thru 50164

(8)4ZK After 8846; 5YS; 6FK After 10030; 9RM After 50164

(9)Lip Seal Housing Gasket - 371187 / Wear Sleeve - 301143

(10)Wear Sleeve - 371366

(11)Not Included In Engine Kits

X-CAT-243-A

10/4/2009

CLICK THE ITEM # TO VIEW OR PURCHASE PART

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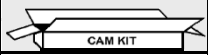
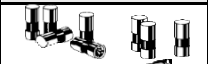
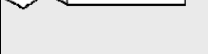
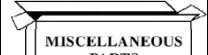


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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT
	1	979523	Camshaft Kit	C
	1	979148	Valve Train Kit: Low Speed Engines (Heads w/Single Springs)	V
	1	979149	Valve Train Kit: High Speed Engines (Heads w/Dual Springs)	V
	1	571129	Camshaft	C
	1	271249	Thrust Washer	
	8	571123	Tappet	C
	4	471129	Exhaust Valve (45° / 37.5MM Hd Dia)	V
	4	471115	Intake Valve (45° / 45.0MM Hd Dia)	V
	4	471132	Exhaust Guide	V
	4	471131	Intake Guide	V
	8	471145	Single Valve Spring (6 Coils / 2.0" Free Length)	V
	8	471144	Outer Valve Spring (8 Coils / 1.8" Free Length)	V
	8	471143	Inner Valve Spring (9 Coils / 1.7" Free Length)	V
	8	471229	Spring Seat (Stepped/.640" ID)	V
	16	471146	Keeper (Half)	V
	4	471288	Exhaust Seat (1.290 x 1.681 x .374 Stepped Top)	
	4	471289	Intake Seat (1.584 x 2.019 x .285)	
	4	471224	LH Rocker Arm (Adj Screw & Lock Nut Not Included) (12)	
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (12)	
	1	471227	Rocker Arm Shaft (13) "Includes 471176 Plugs"	
	1	571172	Cam Gear: Supply AR# (Cast / 56 Teeth)	
	1	571171	Cam Gear: Supply AR# (Steel / 56 Teeth)	
	1	571131	Crank Gear: Supply AR# (Cast / 28 Teeth / 1.632" Wide)	
	1	571217	Crank Gear: Supply AR# (Steel / 28 Teeth / 1.632" Wide)	
	8	571117	Push Rod	
	1	671114	Oil Pump: Engines Without Balancers	
	1	671176	Oil Pump Idler Gear "Includes 571124 Idler Gear Bush"	
	1	671122	Oil Pump: Engines With Balancers	
	4	671157	Piston Cooling Jet	
	4	671158	Piston Cooling Check Valve	
	1	771181	Crank Kit (Spline Nose / Lip Seal)	
	4	771154	Connecting Rod (1.375" Pin)	
	1	771358	Cylinder Head Assembly (Includes Valves & Springs)	
	1	771359	Expansion Plug Kit (20 Head & Block Plugs)	
	1	871138	Thermostat (2.125" / Bypass)	
	1	871274	Bypass Hose Kit	
	1	871163	Water Pump	
	1	871182	Manifold Heater Plug (Blade Terminal)	
	1	871255	Fuel Pump	

(12)Adjusting Screw-471226 / Lock Nut - 571139

(13)Rocker Arm Shaft Snap Ring - 471228