

CATERPILLAR



ENGINE: 3054

BORE: 3.938" 4Cyl Diesel Notes: Turbocharged, Quadram Piston, 1.500" Pin

APPLICATION: Gensets: 4ZK, GSM; Industrial Engines: 6FK; Machine Engines: 5HK, 9RM;
Backhoe/Loaders: Cat 416B, 416C, 426B, 426C, 428B, 428C, 436B, 436C, 438B, 438C;
Compactors: CS431C, CP433C, CS433C, CB534B, CB534C, CB535B; Excavators: 312, 315, 317, 317N;

Provide Engine Serial
& Arrangement Number

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT					
	1	974464	In-Frame Kit, 2nd Design (1)						I
	1	974465	In-Frame Kit, 3rd Design						I
	1	975464	Out-of-Frame Kit, 2nd Design (1)				O		
	1	975465	Out-of-Frame Kit, 3rd Design				O		
	1	976464	Major Kit, 2nd Design (1)		M				
	1	976465	Major Kit, 3rd Design		M				
	4	171176	Sleeve & Piston Assembly, 2nd Design (1)		M	M	O		I
	4	171388	Sleeve & Piston Assembly, 3rd Design		M		O		I
	4	171236	Piston Assembly (1st Design > 3.0MM Top Ring) (1)						
	4	171237	Piston Assembly (2nd Design) (1)						
	4	171387	Piston Assembly (3rd Design)						
	4	171266	Cylinder Liner (Flange/Finished/No Fire Dam/4.1035" OD) (2)						
	4	171365	Cylinder Liner (Flange/Semi-Finished/No FD/4.1055" OD) (3)						
	4	171468	005 Liner Shim						
	4	171191	Ring Set (1st Design Piston > 1-3.0K 1-2.5 1-4.0)						
	4	171281	Ring Set (2nd & 3rd Design Pistons > 1-3.5K 1-2.5 1-4.0)						
	4	271261	STD Rod Bearing (Locating Tangs For Notched Rods)	M	M	O	O	I	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	M	M	O	O	I	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)	M	M	O	O	I	I
	1	271125	.007 Thrust Washer Set (Offset Lug)						
	1	271126	.010 Thrust Washer Set (Offset Lug)						
	1	371377	Head Gasket Set "Head Gasket - 371155"	M	M	O	O	I	I
	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	M	M	O	O		
	1	371167	Pan Gasket Set (Cast Pan / Includes 6 Flange Gaskets)					I	II
	1	371282	Pan Gasket (Steel Pan)					I	
	1	371146	Front Crank Seal (Viton Lip Type) (6)	M	M	O	O		
	1	371145	Rear Crank Seal: (7) (Viton Lip Type) (9)	M	M	O	O		
	1	371297	Rear Crank Seal: (8) (Housing w/Integral Seal) (10) (11)						
	4	271135	Pin Bushing, Butt & Serrated Split (Straight / 1.500" Pin)	M	M				
	4	271199	Pin Bushing, Fractured Split Rod (Tapered / 1.500" Pin)						
	1	271127	Cam Bearing (Finished ID)	M	M				
	8	771151	Connecting Rod Bolt (Serrated Split)	M	M				
	8	771148	Connecting Rod Nut (Serrated Split)	M	M				
	8	771368	Rod Capscrew (Doweled Flat Butt Split/1/2 x 2.766 Hex Hd)						
	8	771323	Rod Capscrew (Fractured Split / 7/16 x 2.580 12 Pt Head)						
	1	771319	Head Bolt Kit (22 Bolts)						

(1) Can Upgrade To 3rd Design Overhaul Kit or Complete Piston Sets

(2) .010 OS Finished Liner - 171267

(3) .020 OS Semi-Finished Liner - 17151 (5) Main Bearings: .040 - 271165 / .050 - 271166 / .060 - 271167 (6) Wear Sleeve - 301115

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

10/4/2009

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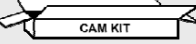
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ENGINE: 3054

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APPLICATION:	Gensets: 4ZK, GSM; Industrial Engines: 6FK; Machine Engines: 5HK, 9RM; Backhoe/Loaders: Cat 416B, 416C, 426B, 426C, 428B, 428C, 436B, 436C, 438B, 438C; Compactors: CS431C, CP433C, CS433C, CB534B, CB534C, CB535B; Excavators: 312, 315, 317, 317N;		
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979523	Camshaft Kit					C
	1	979156	Valve Train Kit (45° / Low Speed / Single Springs)			V		
	1	979157	Valve Train Kit (45° / High Speed / Dual Springs)			V		
	1	979151	Valve Train Kit (30° / Low Speed / Single Springs)			V		
	1	979152	Valve Train Kit (30° / High Speed / 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	V	V	V	
	4	471116	Intake Valve (45° / 45.0MM Hd Dia)			V	V	
	4	471126	Intake Valve (30° / 45.0MM Hd Dia)	V	V			
	4	471132	Exhaust Guide	V	V	V	V	
	4	471131	Intake Guide	V	V	V	V	
	8	471145	Single Valve Spring (6 Coils / 2.0" Free Length)			V	V	
	8	471144	Outer Valve Spring (8 Coils / 1.8" Free Length)	V		V		
	8	471143	Inner Valve Spring (9 Coils / 1.7" Free Length)	V		V		
	8	471229	Spring Seat (Stepped/.640" ID)					
	16	471146	Keeper (Half)	V	V	V	V	
	4	471288	Exhaust Seat (1.290 x 1.681 x .374 Stepped Top)					
	4	471289	Intake Seat (45° / 1.584x2.019x.285)					
	4	471292	Intake Seat (30°)					
	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	571171	Cam Gear (Steel / 56 Teeth)					
	1	571131	Crank Gear (Cast / 28 Teeth / 1.632" Wide)					
	8	571117	Push Rod					
	1	671115	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	771194	Connecting Rod (1.500" Pin)					
	1	771358	Cylinder Head Assembly (Includes 45° Intake Valves)					
	1	771362	Cylinder Head Assembly (Includes 30° Intake Valves)					
	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

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(13)Rocker Arm Shaft Snap Ring - 471228
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