

PERKINS



ENGINE: C4.236 Light Turbocharged Diesel

BORE: 3.877"	4 Cyl	Diesel	Notes: 3 Ring Pistons, 1.500" Pin, Flanged Liners wo/Fire Dam, 45° Valves, No Balancer
APPLICATION: Backhoes: Cat 200 (LH70189); 416 (LH70202); 426 (LH70213);			

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	974164	In-Frame Kit					I
	1	975164	Out-of-Frame Kit				O	
	1	976164	Major Kit			M		
	1	977164	Premium Kit, Thru 3/4/94 (979139 Valve Train Kit Included)		P			
	4	171125	Sleeve & Piston Asb (Piston Stamped "KS") (1)	P	M	O	I	
	4	171227	Piston Asb, Thru U424723U (Piston Stamped "KS") (1) (2)	P	M	O	I	
	4	171274	Piston Asb, After U424723U (Piston Stamped "ML") (1) (3)	P	M	O	I	
	4	171131	Liner (Finished / No Fire Dam / 4.103" OD) (4)					
	4	171361	Liner (Semi-Finished / No Fire Dam / 4.105" OD) (5)					
	4	171468	005 Liner Shim					
	4	171272	Piston Ring Set (1-1/8K 1-3/32 1-3/16)					
	4	271151	STD Rod Bearing	P	M	O	I	
	4	271152	.010 Rod Bearing					
	4	271153	.020 Rod Bearing					
	4	271154	.030 Rod Bearing "Additional Sizes (6)"					
	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 (7)"					
	1	271119	STD Thrust Washer Set	P	M	O	I	
	1	271125	.007 Thrust Washer Set					
	1	271126	.010 Thrust Washer Set					
	1	371321	Head Gasket Set	P	M	O	I	
	1	371132	Head Gasket					
	1	371117	Valve Cover Gasket					
	8	371143	Valve Seal (Umbrella)					
	8	371192	Valve Seal (O-Ring)					
	4	371318	Nozzle Dust Seal Kit "Not In Sets Or Kits"					
	1	371292	Lower Gasket Set wo/Seals	P	M	O		
	1	371149	Timing Cover Gasket					
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"	P	M	O		
	1	371167	Pan Gasket Set, Cast Pan (Includes 6 Oil Flange Gaskets)				I	
	1	371146	Front Crank Seal (Viton Lip Type) (8)	P	M	O		
	1	371145	Rear Crank Seal (Viton Lip Type) (9)	P	M	O		
	4	271135	Pin Bushing (1.500" 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	771315	Head Bolt Kit (4 Lengths / Ribbed Blocks / .500" CB)					

(1)ML&KS pistons are different weights, replace in sets, do not mix (2)Untopped KS Piston-171415 (3)Untopped ML Piston-171416

(4).010 OS-171362 (5).020 OS-171363 (6).040-271155 / .050-271156 / .060-271157 (7).040-271165 / .050-271166 / .060-271167

(8)Front Seal Wear Sleeve - 301115

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

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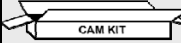
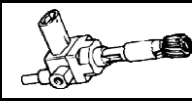
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APPLICATION: Backhoes: Cat 200 (LH70189); 416 (LH70202); 426 (LH70213);			

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979521	Camshaft Kit					C
	1	979139	Valve Train Kit, Thru 3/4/94 (Long Springs)			V		
	1	979141	Valve Train Kit, After 3/4/94 (Short Springs)			V		
	1	571134	Camshaft					C
	1	571162	Cam Bolt Lock Plate					
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217) (10)					
	8	571123	Tappet					C
	4	471123	STD Exhaust Valve (45° / Bi-Metal)		V		V	
	4	471128	STD Intake Valve (45° / Alloy / Chromed Stem)		V		V	
	4	471132	Exhaust Guide		V		V	
	4	471131	Intake Guide		V		V	
	8	471134	Outer Valve Spring, Thru 3/4/94 (8 Coils / 2.5" Free Length)				V	
	8	471133	Inner Valve Spring, Thru 3/4/94 (9 Coils / 2.0" Free Length)				V	
	8	471144	Outer Valve Spring, After 3/4/94 (8 Coils / 1.8" Free Length)		V			
	8	471143	Inner Valve Spring, After 3/4/94 (9 Coils / 1.7" Free Length)		V			
	8	471229	Spring Seat (Stepped/.640" ID)					
	16	471146	Keeper (Half)		V		V	
	4	471111	Exhaust Seat (1.248 x 1.681 x .374 Stepped Top)					
	4	471113	Intake Seat (1.594 x 2.020 x .281)					
	4	471224	LH Rocker Arm (Adj Screw & Lock Nut Not Included) (11)					
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (11)					
	1	471227	Rocker Arm Shaft (12) "Includes 471176 Plugs"					
	1	571172	Cam Gear (Cast / 56 Teeth)					
	1	571113	Crank Gear (28 Teeth)					
	1	571111	Idler Gear (Cast / 63 Teeth) (13)					
	1	571145	Idler Gear Hub					
	8	571117	Push Rod					
	1	671112	Oil Pump					
	1	671134	Oil Pump Idler Gear "Idler Gear Bush - 571124"					
	1	671148	Relief Valve Assembly (LH Oil Filter Only)					
	1	771132	Crank Kit (Spline Nose / Lip Seal)					
	4	771194	Connecting Rod (1.500" Pin)					
	1	771264	Cylinder Head Assembly (Includes Valves & Springs)					
	1	771159	Rear Block Bridge Piece					
	1	771286	Expansion Plug Kit: Thru U280718S (19 Head&Block Plugs)					
	1	771294	Expansion Plug Kit: After U280718S (20 Head&Block Plugs)					
	1	871138	Thermostat (2.125" / Bypass)					
	1	871229	Water Pump wo/Pulley					
	1	871228	Block Heater (1.250")					
	1	871226	Fuel Pump, U084734N-U472348V (4 Bolt/1 Port Toward Blk)					
	1	871234	Fuel Pump, After U472348V (4 Bolt)					

(10)U729165B-U732690B Uses 271239 (1.750 X 2.873 X .243 Recessed Face)

(11)Adj Screw - 471226 / Lock Nut - 571139

(12)Snap Ring - 471228

(13)Includes 2 Bushings - 571144

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