

PERKINS



ENGINE: 4.236 Diesel
After U106654N

BORE: 3.877"	4 Cyl	Diesel	Notes: 3 Ring Pistons, 1.375" Pin, Flanged Liners wo/Fire Dam, No Balancer
APPLICATION: Backhoes: Cat 416, 418 (LD70178, LD70200); 426, 428 (LD70179, LD70201); Excavators: Cat Eder 805 (LD80249);			

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	974196	In-Frame Kit					I
	1	975196	Out-of-Frame Kit				O	
	1	976196	Major Kit			M		
	1	977196	Premium Kit, Thru 3/4/94 (979139 Valve Train Kit Included)		P			
	4	171167	Sleeve & Piston Assembly (3 Ring / Flanged / No Fire Dam)		P	M	O	I
	4	171233	Piston Assembly (3 Ring / Topped) (1)		P			
	4	171131	Liner (Finished / No Fire Dam / 4.103" OD) (3)					
	4	171361	Liner (Semi-Finished / No Fire Dam / 4.105" OD) (4)					
	4	171468	005 Liner Shim					
	4	171256	Piston Ring Set (2-3/32 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 (5)"					
	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 (6)"					
	1	271119	STD Thrust Washer Set		P	M	O	I
	1	271125	.007 Thrust Washer Set					
	1	271126	.010 Thrust Washer Set					
	1	371115	Head Gasket Set		P	M	O	I
	1	371116	Head Gasket, Thru U418405U					
	1	371132	Head Gasket, After U418405U "Not In Head Gasket Set"		P	M	O	I
	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	371282	Pan Gasket, Steel Pan					I
	1	371146	Front Crank Seal (Viton Lip Type) (7)		P	M	O	
	1	371145	Rear Crank Seal (Viton Lip Type) (8)		P	M	O	
	1	771159	Rear Block Bridge Piece					
	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	771293	Head Bolt Kit (Ribbed Blocks / .500" CB)					

(1)Untopped Piston Assembly - 171413

(3)Oversize Finished Liner: .010 - 171362

(4)Oversize Liner: .020 - 171363

(5).040 - 271155 / .050 - 271156 / .060 - 271157

(6).040 - 271165 / .050 - 271166 / .060 - 271167

(7)Front Seal Wear Sleeve - 301115

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

PK-236-30

5/1/2008

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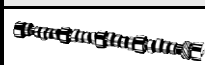
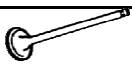
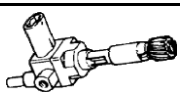
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979521	Camshaft Kit: Except LD80249					C
	1	979518	Camshaft Kit: LD80249					C
	1	979139	Valve Train Kit, Thru 3/4/94 (Long Springs)		V			
	1	979141	Valve Train Kit, After 3/4/94 (Short Springs)		V			
	1	571134	Camshaft: Except LD80249 "Cam Bolt Lock Plate - 571162"					C
	1	571169	Camshaft: LD80249 "Cam Bolt Lock Plate - 571162"					C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217) (9)					
	8	571123	Tappet					C
	4	471123	STD Exhaust Valve (45° / Bi-Metal)		V			
	4	471128	STD Intake Valve (45° / Alloy / Chromed Stem)		V			
	4	471132	Exhaust Guide		V			
	4	471131	Intake Guide		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)		V			
	16	471146	Keeper (Half)		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) (10)					
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (10)					
	1	471227	Rocker Arm Shaft (11) "Includes 471176 Plugs"					
	1	571172	Cam Gear (Cast / 56 Teeth)					
	1	571113	Crank Gear (28 Teeth)					
	1	571111	Idler Gear: Except LD80249 (Cast / 63 Teeth) (12)					
	1	571163	Idler Gear: LD80249 (Steel / 63 Teeth / Bushings) (12)					
	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)					
	1	771132	Crank Kit (Spline Nose / Lip Seal)					
	4	771154	Connecting Rod (1.375" 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: Except LD80249 (2.125" / Bypass)					
	1	871162	Thermostat: LD80249 (2.125" / Non-Bypass)					
	1	871229	Water Pump wo/Pulley: Except LD80249					
	1	871147	Water Pump wo/Pulley: LD80249					
	1	871228	Block Heater (1.250")					
	1	871152	Fuel Pump, Thru U472348V (4 Bolt / Both Ports Toward Blk)					
	1	871234	Fuel Pump, After U472348V (4 Bolt)					

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

(10)Adj Screw 471226 / Lock Nut - 571139

(11)Snap Ring - 471228

(12)Includes 2 Bushings - 571144

PK-236-30

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