

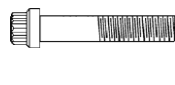
PERKINS



ENGINE: 4.248.2 Diesel
After U108196N

BORE: 3.979" 4 Cyl Diesel Notes: Flanged Liners wo/Fire Dam, Industrial Block, 6 Bolt Balancer

APPLICATION: Forklifts: Clark Unknown (LG70188); C500H60-80 (LG70159);
Forklifts: Clark C500YS60-100 (LG70103); C500Y110-155 (LG70104);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	974225	In-Frame Kit					I
	1	975225	Out-of-Frame Kit				O	
	1	976225	Major Kit			M		
	1	977225	Premium Kit, Thru 3/4/94 (979139 Valve Train Kit Included)		P			
	4	171169	Sleeve & Piston Asb (Re-entrant Bowl / Anodized / Grade L)		P	M	O	I
	4	171234	Piston Assembly (Re-entrant Bowl / Anodized / Grade L) (1)		P			
	4	171189	Cylinder Liner (Finished / No Fire Dam / 4.1025" OD)					
	4	171364	Cylinder Liner (Semi-Finished/No Fire Dam/4.1045" OD) (2)					
	4	171468	005 Liner Shim					
	4	171265	Piston Ring Set, 3 Ring Upgrade (2-2.5MM 1-5MM)					
	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 (Offset Lug)		P	M	O	I
	1	271125	.007 Thrust Washer Set (Offset Lug)					
	1	271126	.010 Thrust Washer Set (Offset Lug)					
	1	371478	Head Gasket Set (Valve Cover Bolts Thru Center Of Cover)		P	M	O	I
	1	371116	Head Gasket					
	1	371477	Valve Cover Gasket (No Bolt Holes In 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	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)Grade H Piston - 171483 (Anodized Piston - **DO NOT TOP**)

(2).020 Oversize Semi-Finished Liner - 171479

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

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

(7)Wear Sleeve - 301115

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

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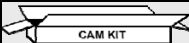
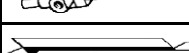
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979518	Camshaft Kit: Except Below					C
	1	979519	Camshaft Kit: LG70188					C
	1	979139	Valve Train Kit, Thru 3/4/94 (Long Springs)			V		
	1	979141	Valve Train Kit, After 3/4/94 (Short Springs)			V		
	1	571169	Camshaft: Except Below "Cam Bolt Lock Plate - 571162"					C
	1	571176	Camshaft: LG70188 "Cam Bolt Lock Plate - 571162"					C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217)					C
	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		V	
	8	471133	Inner Valve Spring, Thru 3/4/94 (9 Coils / 2.0" Free Length)		V		V	
	8	471144	Outer Valve Spring, After 3/4/94 (8 Coils / 1.8" Free Length)		V		V	
	8	471143	Inner Valve Spring, After 3/4/94 (9 Coils / 1.7" Free Length)		V		V	
	8	471229	Spring Seat (Stepped/.640" ID)		V		V	
	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) (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: Except Below (Cast / 56 Teeth)					
	1	571171	Cam Gear: LG70103 (Steel / 56 Teeth)					
	1	571113	Crank Gear: Except Below (28 Teeth)					
	1	571166	Crank Gear: LG70103 (Steel / 28 Teeth)					
	1	571163	Idler Gear: Except Below (Steel / 63T) (14)					
	1	571167	Idler Gear: LG70103 (Steel / 63 Teeth) (15)					
	8	571117	Push Rod					
	1	671122	Oil Pump					
	1	771296	Balancer/Pump Drive Kit (Gear/Shaft Asb, Drv Gear, 2-Brgs)					
	1	771132	Crank Kit (Spline Nose / Lip Seal)					
	4	771154	Connecting Rod (1.375" Pin)					
	1	771264	Cylinder Head Assembly (Includes Valves & Springs)					
	1	771286	Expansion Plug Kit: Thru U280718S (19 Head&Block Plugs)					
	1	771294	Expansion Plug Kit: After U280718S (20 Head&Block Plugs)					
	1	771168	Balancer Assembly, Engines w/LH Oil Filter (Incls Oil Pump)					
	1	771297	Balancer Idler Gear "Needle Bearing Assembly - 771298"					
	4	771171	Balancer Weight Bushings					
	1	871222	Thermostat (2.125" / Vented)					
	1	871216	Water Pump wo/Pulley					
	1	871228	Block Heater (1.250")					
	1	871182	Manifold Heater Plug (Blade Terminal) "Screw Type-871174"					
	1	871152	Fuel Pump, Late (4 Bolt)					

(12)Adj Screw - 471226 / Lock Nut - 571139 (13)Snap Ring - 471228 (14)Includes 2 Bush - 571144 (15)Needle Bearings - 571168

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