

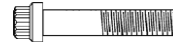
PERKINS



ENGINE: A4.248 Diesel
Thru U108196N

BORE: 3.979" 4 Cyl Diesel Notes: Flanged Liners w/Fire Dam, Ag Block, No Balancer

APPLICATION: Crawlers: MF 300 (LF21577);
Wheel Loaders: MF 22C (LF22663); 33 (LF21578, LF21580);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	974125	In-Frame Kit (Late 3 Ring Upgrade Pistons) (1)			I	
	1	975125	Out-of-Frame Kit (Late 3 Ring Upgrade Pistons) (1)		O		
	4	171118	Sleeve & Piston Assembly (4 Ring Piston) (1)				
	4	171379	Sleeve & Piston Assembly (Late 3 Ring Upgrade Piston) (1)		O	I	
	4	171198	Piston Assembly (4 Ring Piston) (1) (2)				
	4	171228	Piston Assembly (Late 3 Ring Upgrade Piston) (1) (3)				
	4	171132	Cylinder Liner (Finished / Fire Dam / 4.1025" OD)				
	4	171217	Cylinder Liner (Semi-Finished / Fire Dam / 4.1045" OD) (4)				
	4	171468	005 Liner Shim				
	4	171477	Piston Ring Set, Early 4 Ring (3-3/32 1-3/16)				
	4	171192	Piston Ring Set, Late 4 Ring (3-3/32 1-1/4) "Fits 171198"				
	4	171265	Piston Ring Set, 3 Ring Upgrade (2-2.5MM 1-5MM)				
	4	271151	STD Rod Bearing		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		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)		O	I	
	1	271125	.007 Thrust Washer Set (Offset Lug)				
	1	271126	.010 Thrust Washer Set (Offset Lug)				
	1	371115	Head Gasket Set		O	I	
	1	371116	Head Gasket				
	1	371117	Valve Cover Gasket				
	8	371143	Valve Seal				
	4	371239	Nozzle Dust Seal "Not In Gasket Sets Or Kits"				
	1	371292	Lower Gasket Set wo/Seals		O		
	1	371149	Timing Cover Gasket				
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"		O		
	1	371167	Pan Gasket Set (Also Includes 6 Oil Flange Gaskets)			I	
	1	371146	Front Crank Seal (Viton Lip Type) (7)		O		
	1	371161	Rear Crank Seal Kit, Thru 248UA123423 (Rope Type) (8)		O		
	1	371186	Rear Seal & Housing Kit, Thru 248UA123423 (Rope Type) (8)				
	1	371145	Rear Crank Seal, After 248UA123423 (Viton Lip Type) (9)		O		
	1	771159	Rear Block Bridge Piece				
	4	271176	Pin Bushing (1.375" Pin)				
	1	271127	Cam Bearing (Finished ID)				
	8	771151	Connecting Rod Bolt				
	8	771148	Connecting Rod Nut				
	1	771321	Head Stud/Bolt & Nut Kit (4 Studs / 18 Bolts)				

(1)Late 3 Ring Pistons Replace 4 Ring, Replace In Sets, **DO NOT MIX**

(2)Untopped Piston Assembly - 171475

(3)Untopped Piston Assembly - 171476

(4).020 Oversize Semi-Finished Liner - 171478

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

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

(7)Wear Sleeve - 301115

(8)Rope Seal Housing Gasket - 371288

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

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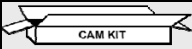
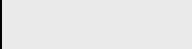
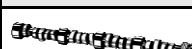
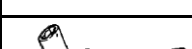
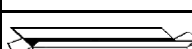
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979516	Camshaft Kit					C
	1	979143	Valve Train Kit					V
	1	979139	Valve Train Kit, w/Guides					V
	1	571122	Camshaft "Cam Bolt Lock Plate - 571162"					C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217)					
	8	571123	Tappet					C
	4	471123	STD Exhaust Valve (45° / Bi-Metal) (10)		V		V	
	4	471128	STD Intake Valve (45° / Alloy / Chromed Stem) (11)		V		V	
	4	471132	Exhaust Guide: Service Repair or 1985 & Up		V			
	4	471131	Intake Guide: Service Repair or 1985 & Up		V			
	8	471134	Outer Valve Spring (8 Coils / 2.500" Free Length)		V		V	
	8	471133	Inner Valve Spring (9 Coils / 2.000" Free Length)		V		V	
	8	471219	Spring Seat, Integral Guides "With Service Guides - 471229"					
	8	471222	Spring Retainer					
	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	571165	Cam Gear (Steel / 56 Teeth)					
	1	571113	Crank Gear (28 Teeth)					
	1	571163	Idler Gear (Steel / 63T)					
	2	571144	Idler Gear Bushing					
	1	571145	Idler Gear Hub					
	8	571117	Push Rod					
	1	671112	Oil Pump					
	1	671134	Oil Pump Idler Gear					
	1	571124	Idler Gear Bushing					
	1	671148	Relief Valve Assembly (Engines w/LH Oil Filter Only)					
	1	771129	Crank Kit, Thru 248UA123423 (Spline Nose / Rope Seal)					
	1	771132	Crank Kit, After 248UA123423 (Spline Nose / Lip Seal)					
	4	771154	Connecting Rod (1.375" Pin)					
	1	771264	Cylinder Head Assembly (Includes Valves & Springs)					
	1	771286	Expansion Plug Kit (Includes 19 Plugs For Head & Block)					
	1	871138	Thermostat (2.125" / Bypass)					
	1	871229	Water Pump w/Pulley: Except LF22663					
	1	871228	Block Heater (1.250")					
	1	871225	Fuel Pump, Early (2 Bolt/Horizontal Diaphragm)					
	1	871152	Fuel Pump, Late (4 Bolt)					

(10)Oversizes: .003 - 471271 / .015 - 471272 / .030 - 471273

(11)Oversizes: .003 - 471274 / .015 - 471275 / .030 - 471276

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

(13)Rocker Arm Shaft Snap Ring-471228

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