

PERKINS



ENGINE: A4.248 Diesel
Thru U880190K

BORE: 3.979"	4 Cyl	Diesel	Notes: Flanged Liners w/Fire Dam, Ag Block, 4 Bolt Balancer
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APPLICATION: Log Skidders: MF 220 After ESN 248UA63341;
Tractors: MF 275 (LF22312, LF22313, LF8531B); 283, 290 (LF22790, LF31105);
Tractors: MF 294 Thru TSN 223D02347 (LF22575, LF22762); 690 (LF31091, LF31109);

	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	
	1	974198	In-Frame Kit (4 Ring Pistons) (1)								I
	1	975198	Out-of-Frame Kit (4 Ring Pistons) (1)							O	
	1	976198	Major Kit (4 Ring Pistons) (1)							M	
	1	977198	Premium Kit (4 Ring Pistons / 979139 Valve Train Kit Incl) (1)							P	
	4	171118	Sleeve & Piston Assembly (4 Ring Piston) (1)		P	M	O	I			
	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		P	M	O	I	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	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	O	I	
	1	271125	.007 Thrust Washer Set (Offset Lug)								
	1	271126	.010 Thrust Washer Set (Offset Lug)								
	1	371115	Head Gasket Set "Head Gasket - 371116"		P	M	O	I	O	I	
	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		P	M	O		O		
	1	371149	Timing Cover Gasket								
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"		P	M	O		O		
	1	371167	Pan Gasket Set (Also Includes 6 Oil Flange Gaskets)					I		I	
	1	371146	Front Crank Seal (Viton Lip Type) (7)		P	M	O		O		
	1	371161	Rear Crank Seal Kit, Thru 248UA123423 (Rope Type) (8)		P	M	O		O		
	1	371186	Rear Seal & Housing Kit, Thru 248UA123423 (Rope Type) (8)								
	1	371145	Rear Crank Seal, After 248UA123423 (Viton Lip Type) (9)		P	M	O		O		
	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	771282	Head Stud/Bolt & Nut Kit, Thru U874811J (2 Studs/20 Bolts)								
	1	771292	Head Bolt Kit, After U874811J (22 Bolts / .125" Blk CB)								

(1)Late 3 Ring Pistons Replace 4 Ring, Use In Sets, **DO NOT MIX**, MF275 (Brazil) LF8531B Build List Uses Untopped Piston

(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

PK-248-G

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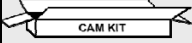
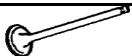
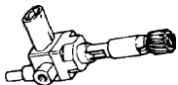
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Tractors: MF 294 Thru TSN 223D02347 (LF22575, LF22762); 690 (LF31091, LF31109);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979516	Camshaft Kit: Except Below					C
	1	979517	Camshaft Kit: MF 220 Skidder					C
	1	979143	Valve Train Kit			V		
	1	979139	Valve Train Kit, w/Guides			V		
	1	571122	Camshaft: Except Below "Cam Bolt Lock Plate - 571162"					C
	1	571114	Camshaft: MF 220 Skidder "Cam Bolt Lock Plate - 571162"				C	
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217)					
	8	571123	Tappet				C	C
	4	471123	STD Exhaust Valve (45° / Bi-Metal) (10)		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	571112	Cam Gear (Cast / 56 Teeth)					
	1	571113	Crank Gear (28 Teeth)					
	1	571111	Idler Gear: Except Below (63 Teeth) "Bushings - 571144"					
	1	571163	Idler Gear: MF 220 Skidder (Steel/63T) "Bushings - 571144"					
	8	571117	Push Rod					
	1	671142	Oil Pump Kit (Gears,Shaft,Plate,Valve,Spring,Cap,Gkts) (15)					
	1	671143	Oil Pump Body (Cast Gear Housing)					
	1	671146	Oil Pump Inlet Strainer					
	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	771164	Balancer Assembly (Includes Oil Pump)					
	1	771288	Balancer Kit, Early (3-Shafts 2-Gears 2-Keys 1-Plate) (16)					
	1	771287	Balancer Kit, Late (3-Shafts 2-Gears 2-Keys 4-Brgs) (17)					
	1	771165	Balancer Kit, Service Balancer (Shafts, Gears, Brgs) (18)					
	2	771197	Balancer Gear, Late (3 Bolt / 1.375 ID / 30T)					
	1	871162	Thermostat: Except MF 220 Skidder (2.125")					
	1	871147	Water Pump wo/Pulley: Except MF 220 Skidder					
	1	871228	Block Heater (1.250")					
	1	871226	Fuel Pump (4 Bolt / One Port Toward Block)					

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

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

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

(13)Rocker Arm Shaft Snap Ring - 471228

(15)Supply 771166 If Drive Spline Is .422" OD (16)Frame w/Bushings (17)Frame w/Needle Brgs (18)Frame w/Grooved Roller Brgs

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