

PERKINS



ENGINE: A4.248 Diesel

BORE: 3.979"	4 Cyl	Diesel	Notes: Straight Liners, Ag Block, 4 Bolt Balancer
APPLICATION: Log Skidders: MF 220 Thru ESN 248UA63341; Tractors: MF 178 UK; 282 Mexico (LF022M);			

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	974144	In-Frame Kit (Late 3 Ring Upgrade Pistons) (1)				I
	1	975144	Out-of-Frame Kit (Late 3 Ring Upgrade Pistons) (1)		O		
	4	171333	Sleeve & Piston Assembly (4 Ring Piston) (1)				
	4	171389	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	171332	STD Cylinder Liner (Straight/Semi-Finished/4.0655" OD)				
	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 (4)"				
	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 (5)"				
	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 "Head Gasket - 371116"		O		I
	1	371117	Valve Cover Gasket				
	8	371143	Valve Seal (Umbrella)				
	8	371192	Valve Seal, After U778517H (O-Ring)				
	4	371239	Nozzle Dust Seal, Thru 712248G "Not In Gkt Sets Or Kits"				
	4	371318	Nozzle Dust Seal Kit, After 712248G "Not In 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) (6)		O		
	1	371161	Rear Crank Seal Kit, Thru 248UA123423 (Rope Type) (7)		O		
	1	371186	Rear Seal & Housing Kit, Thru 248UA123423 (Rope Type) (7)				
	1	371145	Rear Crank Seal, After 248UA123423 (Viton Lip Type) (8)		O		
	4	271176	Pin Bushing (1.375" Pin)				
	1	271127	Cam Bearing (Finished ID)				
	8	771151	Connecting Rod Bolt				
	8	771148	Connecting Rod Nut				
	1	771291	Head Stud & Nut Kit: MF220 Thru ESN 248UA40502				
	1	771312	Head Stud/Bolt & Nut Kit: MF220 After ESN 248UA40502				
	1	771282	Head Bolt/Stud & Nut Kit: MF282 (2 Studs & Nuts/20 Bolts)				

(1)Late 3 Ring Pistons Replace 4 Ring, Replace In Sets, **DO NOT MIX** (2)Untopped Piston Asb-171475 (3)Untopped Piston Asb-171476
 (4)Rod Bearings: .040 - 271155 / .050 - 271156 / .060 - 271157 (5)Main Bearings: .040 - 271165 / .050 - 271166 / .060 - 271167
 (6)Wear Sleeve - 301115 (7)Rope Seal Housing Gasket - 371288 (8)Lip Seal Housing Gasket - 371187 / Wear Sleeve - 301143

PK-248-K

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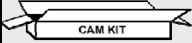
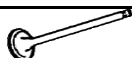
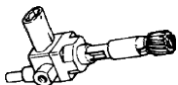
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APPLICATION: Log Skidders: MF 220 Thru ESN 248UA63341; Tractors: MF 178 UK; 282 Mexico (LF022M);			

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979517	Camshaft Kit: MF220 Skidder					C
	1	979516	Camshaft Kit: MF178 & 282 Tractor					C
	1	979137	Valve Train Kit		V			
	1	979138	Valve Train Kit, w/Guides		V			
	1	571114	Camshaft: MF220 Skidder "Cam Bolt Lock Plate - 571162"					C
	1	571122	Camshaft: MF178 & 282 "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 (10)		V			
	4	471119	STD Intake Valve (11)		V			
	4	471132	Exhaust Guide: Service Repair		V			
	4	471131	Intake Guide: Service Repair		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 (Cast / 63 Teeth) (14)					
	1	571145	Idler Gear Hub					
	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: MF178 & 282 Tractor					
	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	771159	Rear Block Bridge Piece					
	1	771286	Expansion Plug Kit (Includes 19 Plugs For Head & Block)					
	1	771164	Balancer Assembly (Includes Oil Pump)					
	1	771165	Balancer Kit: MF282 (3-Shafts 2-Gears 2-Keys 4-Brgs) (16)					
	2	771197	Balancer Gear: MF282 (3 Bolt / 1.375 ID / 30T)					
	1	871137	Thermostat: MF220 (2.750")					
	1	871162	Thermostat: MF178 & 282 (2.125")					
	1	871147	Water Pump wo/Pulley					
	1	871228	Block Heater (1.250")					
	1	871225	Fuel Pump (2 Bolt/Horizontal Diaphragm)					

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

(11)Oversizes: .003 - 471267 / .015 - 471268 / .030 - 471269

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

(13)Rocker Arm Shaft Snap Ring - 471228

(14)Includes 2 Bushings - 571144

(15)Supply 771166 If Drive Spline Is .422" OD

(16)Frame w/Grooved Roller Brgs

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