

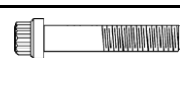
PERKINS



ENGINE: AD3.152 Diesel
Direct Injection After UA391044D

BORE: 3.602"	3 Cyl	Diesel	Cast Liner, .150" Flange, 45° Valves, 5 Ring Piston, Keyed Crank, Lip Seal, 18 Studs
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APPLICATION: Crawlers: MF 200, 200B After ESN UA391044D; Forklifts: MF 2500 After ESN UA391044D; 4500;
Tractors: MF 230; 235 w/ESN Ending With "DL";
Wheel Tractor: MF 20, 40 After ESN UA391044D;

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	974233	In-Frame Kit					I
	1	975233	Out-of-Frame Kit				O	
	1	976233	Major Kit			M		
	1	977233	Premium Kit (Valve Train Kit Included)		P			
	3	171114	Sleeve & Piston Assembly (Topped Piston / Finished Liner)		P	M	O	I
	3	171143	Piston Kit (Topped w/Pin & Chrome Rings) (1)					
	3	171195	Piston Assembly (Topped) (2)					
	3	171129	STD Cylinder Liner (Finished/Slip Fit) (3)					
	3	171211	STD Cylinder Liner (Semi-Finished/Press Fit) (4)					
	3	171429	.005 Liner Shim					
	3	171261	Piston Ring Set, Chrome (2-3/32 1-1/8 2-1/4)					
	3	271231	STD Rod Bearing		P	M	O	I
	3	271232	.010 Rod Bearing					
	3	271233	.020 Rod Bearing					
	3	271234	.030 Rod Bearing					
	3	271235	.040 Rod Bearing					
	3	271236	.050 Rod Bearing					
	3	271237	.060 Rod Bearing					
	1	271251	STD Main Bearing Set		P	M	O	I
	1	271252	.010 Main Bearing Set					
	1	271253	.020 Main Bearing Set					
	1	271254	.030 Main Bearing Set					
	1	271255	.040 Main Bearing Set					
	1	271256	.050 Main Bearing Set					
	1	271257	.060 Main Bearing Set					
	1	271111	STD Thrust Washer Set (.122" Thick) (5)		P	M	O	I
	1	271131	.005 Thrust Washer Set (.127" Thick) (5)					
	1	271132	.007 Thrust Washer Set (.129" Thick) (5)					
	1	271133	.010 Thrust Washer Set (.132" Thick) (5)					
	1	371265	Head Gasket Set "Head Gasket - 371252"		P	M	O	I
	1	371217	Valve Cover Gasket					
	3	371239	Nozzle Dust Seal (Flanged) "Not In Gasket Sets Or Kits"					
	1	371198	Lower Gasket Set wo/Seals		P	M	O	
	1	371234	Tach Drive Seal					
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"		P	M	O	
	1	371255	Pan Gasket Set					I
	1	371233	Front Crank Seal		P	M	O	
	1	371145	Rear Crank Seal (Viton Lip Type)		P	M	O	
	3	271175	Pin Bushing		P	M		
	6	771153	Connecting Rod Bolt		P	M		
	6	771152	Connecting Rod Nut		P	M		
	1	771251	Head Stud & Nut Kit, Thru UA431804DL					
	1	771253	Head Stud/Bolt & Nut Kit, After ESN UA431804DL					

(1)Untopped Piston Kit - 171439 (2)Untopped Piston Assembly - 171438 (3)Oversize Finished Liners: .010 - 171356 / .030 - 171357

(4)Oversize Semi-Finished Liners: .010 - 171139 / .030 - 171212 / .050 - 171112 / .100 - 171213

(5)Others Sizes Available

PK-152-J

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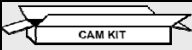
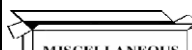
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Tractors: MF 230; 235 w/ESN Ending With "DL";

Wheel Tractor: MF 20, 40 After ESN UA391044D;

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979512	Camshaft Kit					C
	1	979126	Valve Train Kit (45° Valves)				V	
	1	571115	Camshaft					C
	1	571152	Camshaft Thrust Spring, Early (.125" Hole)					
	1	571154	Camshaft Thrust Spring, Late (.163" Hole)					
	6	571125	Tappet, wo/Adjusting Screw					C
	6	571138	Adjusting Screw (6)					
	3	471122	Exhaust Valve (1.320 Hd Dia / 4.507 OAL / 45°)				V	
	3	471118	Intake Valve (1.539 Hd Dia / 4.507 OAL / 45°)				V	
	6	471127	Valve Guide				V	
	6	471138	Outer Valve Spring				V	
	6	471179	Spring Seat, Single Spring					
	6	471167	Spring Retainer					
	12	471168	Keeper (Half)				V	
	3	471182	Exhaust Seat (1.203 x 1.681 x .312 x 45°)					
	3	401197	Intake Seat (1.406 x 1.875 x .219 x 45°)					
	3	471173	LH Rocker Arm					
	3	471174	RH Rocker Arm					
	1	471189	Rocker Arm Shaft (7) (8) (9)					
	1	571128	Cam Gear (50 Teeth)					
	1	571121	Crank Gear (25 Teeth)					
	1	571118	Idler Gear (90 Teeth)					
	1	571153	Idler Gear Hub					
	1	671118	Oil Pump (Idler Gear Not Included)					
	1	671116	Oil Pump Idler Gear (21 Teeth)					
	1	671136	Idler Gear Bushing					
	1	771112	Crankshaft (Keyed Nose / Lip Seal)					
	1	771126	Crankshaft Kit (Keyed Nose / Lip Seal)					
	1	771235	Balance Weight Bolt Kit (4-2.375" Bolts, 4-Special Washers)					
	3	771158	Connecting Rod					
	1	771145	Cylinder Head Assembly (Includes Valves & Springs)					
	1	771249	Expansion Plug Kit (Includes 8 Plugs For Block)					
	1	771191	Timing Gear Case Bridge Piece					
	1	771252	Timing Gear Case					
	1	771185	Timing Cover					
	1	871162	Thermostat					
	1	871155	Water Pump wo/Pulley: 20, 230, 235, 2500					
	1	871189	Water Pump w/Pulley: 20, 230, 235, 2500 (10)					
	1	871194	Water Pump wo/Pulley: 40, 4500					
	1	871169	Fuel Pump: Exc 230 After ESN U635848G (2 Bolt wo/Bowl)					
	1	871196	Fuel Pump: 230 After ESN U635848G (4 Bolt)					

(6)Lock Nut - 571139 (7)Shaft Plug - 471176 (8)Shaft Snap Ring - 471177 (9)Rocker Arm Oil Line Assembly - 471191

(10)Includes 871191 Pulley (3 1/8" Hub/Square Bolt Pattern)

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