

JOHN DEERE



ENGINE: 4045D

Naturally Aspirated (4.5 Liter)

BORE:4.1929" 4 Cyl Diesel NOTES: .312" Valve Stem Diameter, 1.625" Piston Pin, 8.580" OAL Liners

APPLICATION: Backhoe Loaders: 410C After ESN 299999; 410D; Crawlers: 450G, 455G ESN 300000-742459;

TO-Dubuque Engine Excavators: 490D After ESN 299999; Feller Bunchers: 493D After 299999;

PE-Torreon Engine Power Units: 4045DF (Dubuque); 4045DF (Saran);

CD-Saran Engine Wheel Loaders: 344E After ESN 299999;

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	954234	In-Frame Kit				I
	1	955234	Out-of-Frame Kit			O	
	1	956234	Major Kit		M		
	4	151653	Sleeve & Piston Assembly (Marked RE28919)	M		O	I
	4	151654	Piston Assembly (Marked RE28919)				
	4	151123	Liner Assembly (8.580" OAL) (1)				
	4	151115	Liner O-Ring Package				
	4	151647	Block Repair Sleeve, Lower Liner Pilot Bore (.930" OAL)				
	4	151116	Piston Ring Set (1-1/8K 1-3/32 1-3.5MM)				
	4	251382	STD Rod Bearing	M		O	I
	4	251384	.010 Rod Bearing				
	4	251385	.020 Rod Bearing				
	4	251386	.030 Rod Bearing				
	1	251336	STD Main Bearing Set w/Thrust Washers	M		O	I
	1	251337	.010 Main Bearing Set w/Thrust Washers				
	1	251338	.020 Main Bearing Set w/Thrust Washers				
	1	251339	.030 Main Bearing Set w/Thrust Washers				
	1	251119	STD Thrust Washer Set				
	1	251121	.007 Thrust Washer Set				
	1	351676	Head Gasket Set				I
	1	351337	Head Gasket				
	1	351151	Valve Cover Gasket, w/Metal Cover (SEMR) (2)				
	1	351124	Valve Cover Gasket, w/Composite Cover (O-Ring) (3)				
	8	351683	Valve Seal (Positive Type Viton) (3)				
	1	351696	Full Gasket Set w/Seals				
	1	351697	Overhaul Gasket Set wo/Seals	M		O	
	1	351711	Block Gasket Set				
	1	351661	Timing Cover Gasket				
	1	351684	Timing Cover Gasket, w/Composite Cover (O-Ring) (3)				
	1	351686	Timing Cover Gasket, RH Side Aux Gear Drive (3)				
	1	351149	Pan Gasket (Cast or Aluminum Pan)				
	1	351327	Pan Gasket (Sheet Metal Pan)				
	1	351666	Pan Gasket Set (2-Gaskets, 3-O-Rings, 1-D-Ring 1-Sleeve)				I
	1	351128	Front Crank Seal	M		O	
	1	351154	Front Crank Spacer Assembly (3)				
	1	351228	Front Crank Seal Kit (Includes Wear Sleeve)				
	1	351129	Rear Crank Seal Kit	M		O	
	4	251565	Pin Bushing (Boreable / 1.625" Pin)	M			
	4	251566	Pin Bushing (Honeable / 1.625" Pin)				
	6	251423	Balancer Bushing	M			
	6	251424	2.00MM Oversize Balancer Bushing				
	8	751341	Rod Bolt	M		O	I
	18	751129	Head Bolt (4.410" Flanged Head)				

(1)Liner Shims: .002 - 151637 / .004 - 151638

(2)Special Valve Cover Screw - 751256

(3)Not Included In Gasket Sets Or Kits

JD-276-F

7/22/2006

CLICK THE ITEM # TO VIEW OR PURCHASE PART

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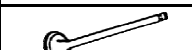
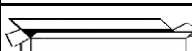
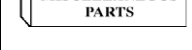
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PE-Torreon Engine Power Units: 4045DF (Dubuque); 4045DF (Saran);

CD-Saran Engine Wheel Loaders: 344E After ESN 299999;

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	959525	Camshaft Kit					C
	1	959333	Basic Valve Kit				B	
	1	959133	Valve Train Kit			V		
	1	551343	Camshaft "Use w/Screw-In Tach Drive (5)"					C
	1	551112	Cam Thrust Plate					C
	8	551113	Tappet					C
	4	451111	STD Exhaust Valve (6)		V		B	
	4	451113	STD Intake Valve (7)		V		B	
	8	451531	Exhaust Service Repair Valve Guide (.502 OD / 2.390" OAL)					
	8	451532	Intake Service Repair Valve Guide (.502 OD / 2.209" OAL)					
	8	451115	Valve Spring		V		B	
	8	451116	Rotator		V			
	16	451117	Keeper (Half)		V		B	
	4	451126	Ex Seat, OEM Dubuque (1.345-T-1.482 x 1.695 x .242) (8)					
	4	451119	Ex Seat, OEM Saran (1.345-T-1.482 x 1.697 x .243)					
	4	451127	In Seat, OEM Dubuque (1.550-T-1.650 x 1.857 x .257) (9)					
	4	451122	In Seat, OEM Saran (1.550-T-1.650 x 1.859 x .257)					
	8	451124	Rocker Arm, Early (Socket Type Adj Screw) "Use w/551122"					
	8	451533	Rocker Arm, Late (Ball Type Adj Screw) "Use w/551123"					
	1	451254	Rocker Arm Shaft					
	2	451165	Rocker Arm Shaft Plug (.464")					
	1	551137	Cam Gear (48 Helical Teeth) "Spur Gear - 551114"					
	1	551138	Crank Gear (24 Helical Teeth) "Spur Gear - 551115"					
	1	551139	Upper Idler Gear (55T Helical / 23 Notches) "Bush - 551142"					
	1	551141	Lower Idler Gear (45T Helical) "Bush - 551143 (.750" Wide)"					
	8	551122	Push Rod (2-Ball Tips / 10.63" OAL)					
	8	551123	Push Rod, Late Style (1-Socket 1-Ball / 10.43" OAL)					
	1	651145	Oil Pump, Early (2.000" Gears) "Oil Pump Kit - 651149"					
	1	651128	Oil Pump, Late (1.625" Gears) "Oil Pump Kit - 651131"					
	1	651269	Oil Cooler Element (2.375" Core Diameter)					
	1	651258	Oil Cooler (8 Plate Doughnut)					
	1	751116	Crankshaft (Long 60MM Nose)					
	4	751347	Connecting Rod (1.625" Pin)					
	1	751343	LH Balancer Shaft Assembly (Bolt-On Weights)					
	1	751344	RH Balancer Shaft Assembly (Bolt-On Weights)					
	1	851188	Fuel Pump (Threaded Ports) "w/Vert Hose Barbs - 851342"					
	2	851174	Thermostat: Exc Saran, 344E (180°) "Some Use Only 1"					
	1	851249	Block Heater					
			(10) Water Pumps (11) Pump Kits (12) Pump Kits wo/Impeller					

(5)Late Screw-In Tach Drive: Shaft Type - 551136 / Gear Type (.541 Gear Length) - 551146 / Gear Type (.711 Gear Length) - 551147

(6).015 - 451112 / .030 - 451528 (7).015 - 451114 / .030 - 451529 (8)Oversize Ex Seat - 451121 (9)Oversize In Seat - 451123

(10)4045DF Code 2016 - 851331 / 4045DF Codes 2017, 2019 - 851334 / 4045DF Codes 2003, 2004 - 851345

(10)4045DF Code 2001; 490D, 493D - 851355 (11)4045DF Code 2001,2022; 490D, 493D - 851192 / 4045DF Code 2017,2019 - 851352

(11)4045DF Codes 2016, 2020, 2026 - 851321 / 4045DF Codes 2003, 2004, 2023, 2029 - 851332

(12)410C, 410D - 851329