

# JOHN DEERE



ENGINE: 4239D

Naturally Aspirated

BORE:4.1929" 4 Cyl Diesel NOTES: .375" Valve Stem Diameter, 1.375" Piston Pin, 7.720" OAL Liners

APPLICATION: Backhoe Loaders: 210C, 310C, 315C, 415B; Crawler: 400G; Forklift: 482C; Excavators: 70, 290D, 70D;

TO-Dubuque Engine Power Unit: 4239D (Dubuque), 4239D (Saran); Sprayer: 6000; Tractors: 2130, 2350, 2355, 2550, 2555CS;

CD-Saran Engine Tractors: 1640(E), 1840(E), 2040(E), 2040S(E), 2130(E); Windrowers: 2360, 3430;

|  | QTY | ITEM # | DESCRIPTION  | LETTERED ITEMS INCLUDED IN KIT |   |   |   |   |   |
|--|-----|--------|--|--------------------------------|---|---|---|---|---|
|  | 1   | 954222 | In-Frame Kit (High Ring)                                 |                                |   |   |   |   | I |
|  | 1   | 954258 | In-Frame Kit (Low Ring)                                  |                                |   |   |   |   | I |
|  | 1   | 955222 | Out-of-Frame Kit (High Ring)                             |                                |   |   | O |   |   |
|  | 1   | 955258 | Out-of-Frame Kit (Low Ring)                              |                                |   |   | O |   |   |
|  | 1   | 956222 | Major Kit (High Ring)                                    |                                |   | M |   |   |   |
|  | 1   | 956258 | Major Kit (Low Ring)                                     |                                |   | M |   |   |   |
|  | 4   | 151633 | Sleeve & Piston Assembly (High Ring)                     |                                |   | M |   | O | I |
|  | 4   | 151634 | Sleeve & Piston Assembly (Low Ring)                      |                                |   | M |   | O | I |
|  | 4   | 151635 | Piston Assembly  |                                |   |   |   |   |   |
|  | 4   | 151636 | Piston Assembly (Low Ring Option)                        |                                |   |   |   |   |   |
|  | 4   | 151412 | Liner Assembly (7.720" OAL) (1)                          |                                |   |   |   |   |   |
|  | 4   | 151115 | Liner O-Ring Package                                     |                                |   |   |   |   |   |
|  | 4   | 151639 | Block Repair Sleeve, Lower Liner Pilot Bore (.870" OAL)  |                                |   |   |   |   |   |
|  | 4   | 151116 | Piston Ring Set (1-1/8K 1-3/32 1-3.5MM)                  |                                |   |   |   |   |   |
|  | 4   | 251111 | STD Rod Bearing  |                                | M | M | O | O | I |
|  | 4   | 251112 | .010 Rod Bearing   |                                |   |   |   |   |   |
|  | 4   | 251113 | .020 Rod Bearing   |                                |   |   |   |   |   |
|  | 4   | 251114 | .030 Rod Bearing   |                                |   |   |   |   |   |
|  | 1   | 251266 | STD Main Bearing Set                                     |                                | M | M | O | O | I |
|  | 1   | 251267 | .010 Main Bearing Set                                    |                                |   |   |   |   |   |
|  | 1   | 251268 | .020 Main Bearing Set                                    |                                |   |   |   |   |   |
|  | 1   | 251269 | .030 Main Bearing Set                                    |                                |   |   |   |   |   |
|  | 1   | 351676 | Head Gasket Set "Head Gasket Only - 351337"              |                                |   |   |   |   | I |
|  | 1   | 351151 | Valve Cover Gasket, w/Metal Cover (SEMR) (2)             |                                |   |   |   |   | I |
|  | 1   | 351124 | Valve Cover Gasket, w/Composite Cover (O-Ring) (3)       |                                |   |   |   |   |   |
|  | 8   | 351161 | Valve Seal (O-Ring)                                      |                                |   |   |   |   |   |
|  | 8   | 351682 | Valve Seal, Late Stepped Guide (Positive Type Viton) (3) |                                |   |   |   |   |   |
|  | 1   | 351677 | Full Gasket Set w/Lip Seals                              |                                |   |   |   |   |   |
|  | 1   | 351314 | Overhaul Gasket Set wo/Seals                             |                                | M | M | O | O |   |
|  | 1   | 351147 | Lower Gasket Set w/Lip Seals                             |                                |   |   |   |   |   |
|  | 1   | 351259 | Crankcase Gasket Set wo/Seals                            |                                |   |   |   |   |   |
|  | 1   | 351329 | Block Gasket Set   |                                |   |   |   |   |   |
|  | 1   | 351684 | Timing Cover Gasket, w/Composite Cover (O-Ring) (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 | M | O | O |   |
|  | 1   | 351154 | Front Crank Spacer Assembly, Late Engines Only           |                                |   |   |   |   |   |
|  | 1   | 351228 | Front Crank Seal Kit (Includes Wear Sleeve)              |                                |   |   |   |   |   |
|  | 1   | 351129 | Rear Crank Seal Kit                                      |                                | M | M | O | O |   |
|  | 1   | 351129 | Rear Crank Seal Kit                                      |                                | M | M | O | O |   |
|  | 4   | 251563 | Pin Bushing (Boreable / 1.375" Pin)                      |                                | M | M |   |   |   |
|  | 4   | 251564 | Pin Bushing (Honeable / 1.375" Pin)                      |                                |   |   |   |   |   |
|  | 6   | 251423 | Balancer Bushing   |                                | M | M |   |   |   |
|  | 6   | 251424 | 2.00MM Oversize Balancer Bushing                         |                                |   |   |   |   |   |
|  | 8   | 751168 | Rod Bolt: Rods Marked R51727 (2.125" Length)             |                                |   |   |   |   |   |
|  | 8   | 751128 | Rod Bolt: Rods Marked R80034 (2.375" Length)             |                                | M | M | O | O | I |
|  | 18  | 751129 | Head Bolt: Except Early Saran Engines (4.410" Flg Head)  |                                |   |   |   |   |   |

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

(2)Special Valve Cover Screw - 751256

(3)Not Included In Gasket Sets Or Kits

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CD-Saran Engine Tractors: 1640(E), 1840(E), 2040(E), 2040S(E), 2130(E); Windrowers: 2360, 3430;

| QTY |    | ITEM # | DESCRIPTION   | LETTERED ITEMS INCLUDED IN KIT |   |   |   |
|-----|----|--------|---|--------------------------------|---|---|---|
|     | 1  | 959525 | Camshaft Kit  |                                |   |   | C |
|     | 1  | 959316 | Basic Valve Kit   |                                |   |   | B |
|     | 1  | 959116 | Valve Train Kit   |                                |   | V |   |
|     | 1  | 551343 | Camshaft "Use w/Screw-In Tach Drive (4)"                    |                                |   |   | C |
|     | 8  | 551113 | Tappet  |                                |   |   | C |
|     | 4  | 451221 | STD Exhaust Valve (45 Degree) (5)                           |                                | V |   | B |
|     | 4  | 451222 | STD Intake Valve (45 Degree) (6)                            |                                | V |   | B |
|     | 8  | 401149 | Ex/In Service Repair Valve Guide (.564 OD / 2.750" OAL) (7) |                                |   |   |   |
|     | 8  | 451115 | Valve Spring  |                                | V |   | B |
|     | 8  | 451187 | Rotator "Will Replace 451411 Spring Retainer"               |                                | V |   |   |
|     | 8  | 451198 | Valve Wear Cap  |                                |   |   |   |
|     | 16 | 451164 | Keeper (Half)   |                                | V |   | B |
|     | 4  | 451519 | Exhaust Seat, OEM Dubuque (1.410 x 1.638 x .219 x 45°)      |                                |   |   |   |
|     | 4  | 451535 | Exhaust Seat, OEM Saran (1.410 x 1.640 x .218 x 45°)        |                                |   |   |   |
|     | 4  | 401186 | Exhaust Seat, STD Cutter (1.375 x 1.687 x .219 x 45°)       |                                |   |   |   |
|     | 4  | 451527 | Intake Seat, OEM Dubuque (1.584 x 1.858 x .208 x 45°)       |                                |   |   |   |
|     | 4  | 451536 | Intake Seat, OEM Saran (1.608 x 1.860 x .219 x 45°)         |                                |   |   |   |
|     | 4  | 401168 | Intake Seat, STD Cutter (1.625 x 1.875 x .219 x 45°)        |                                |   |   |   |
|     | 8  | 451124 | Rocker Arm  |                                |   |   |   |
|     | 1  | 451254 | Rocker Arm Shaft  |                                |   |   |   |
|     | 2  | 451165 | Rocker Arm Shaft Plug (.464")                               |                                |   |   |   |
|     | 1  | 551137 | Cam Gear (48 Teeth)   |                                |   |   |   |
|     | 1  | 551138 | Crank Gear (24 Teeth)                                       |                                |   |   |   |
|     | 1  | 551139 | Upper Idler Gear (55 Teeth / 23 Notches) "Bushing - 551142" |                                |   |   |   |
|     | 1  | 551141 | Lower Idler Gear (45 Teeth) "Bushing - 551143 (.750" Wide)" |                                |   |   |   |
|     | 8  | 551342 | Push Rod  |                                |   |   |   |
|     | 1  | 651128 | New Oil Pump "May Need 651132 Outlet Tube"                  |                                |   |   |   |
|     | 1  | 651131 | Oil Pump Kit (1.625" Gears)                                 |                                |   |   |   |
|     | 1  | 651133 | Pump Inlet Screen: Except 4239D (CD), 2130, 2355, 2555      |                                |   |   |   |
|     | 1  | 651151 | Oil Cooler, Thru ESN 794193 (10 Plate) (8)                  |                                |   |   |   |
|     | 1  | 751112 | Crankshaft, Early (Short 35MM Nose)                         |                                |   |   |   |
|     | 1  | 751113 | Crankshaft, Late (Long 60MM Nose)                           |                                |   |   |   |
|     | 4  | 751336 | Connecting Rod (1.375" Pin)                                 |                                |   |   |   |
|     | 1  | 751331 | LH Balancer Shaft Assembly                                  |                                |   |   |   |
|     | 1  | 751332 | RH Balancer Shaft Assembly                                  |                                |   |   |   |
|     | 1  | 851188 | Fuel Pump (Threaded Ports) "Pump w/Hose Barbs - 851336"     |                                |   |   |   |
|     | 1  | 851163 | Thermostat, Single Non-Bypass Non-Vented (180 Degree) (9)   |                                |   |   |   |
|     |    |        | (10) New Water Pumps (11) Water Pump Kits                   |                                |   |   |   |

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

(5).003 - 451513 / .015 - 451514 / .030 - 451515 (6).003 - 451516 / .015 - 451517 / .030 - 451518 (7)Spiral ID - 401189 (.502 OD)

(8)Installation Kit - 651252 (9)Single 180 Deg Bypass Type - 851333 / Single 180 Deg Vented Type / Dual 180 Deg Stat - 851174

(10)4239D Code 2004 (CD) Thru 498385; 2130, 290D, 70, 70D - 851317 / 4239D Code 2005; 210C, 400G, 482C - 851318

(10)4239D Code 2021 - 851319 / 4239D Code 2004 (CD) After 498385 & (TO); 2360, 6000 - 851331

(10)4239D Code 2022; 1640, 1840, 2040, 2040S, 2350, 2355, 2550, 2555 - 851334 (11)300D, 310C, 310D, 315C, 315D w/AC - 851328

(11)4239D Codes 2004, 2021; 2130, 2360, 290D, 3430, 6000, 70, 70D - 851321 / 1640, 1840, 2040, 2040S, 2355, Early 2555 - 851335

(11)4239D Codes 2005, 2022; 210C, 400G, 482C - 851192 / 300D, 310C, 310D, 315C, 315D wo/AC - 851332 / 415B - 851329

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