

**350 CRAWLER TRACTOR
350 CRAWLER LOADER**

**7,895 lb (3 582 kg)
11,570 lb (5 250 kg)**

Transport Height.....6 ft 4 in. (1.9 m)
Transport Length.....13 ft 3 in. (2.5 m)
Machine Width.....5 ft 6 in. (1.7 m)

ENGINE.....John Deere 300 Series

Number of Cylinders and Displacement:

Gasoline 3 cylinders, 135 cu in. (2.2 L)
Diesel 3 cylinders, 152 cu in. (2.5 L)

Air Intake System..... Naturally aspirated

Bore and Stroke:

Gasoline 3.86 x 3.86 in. (98 x 98 mm)
Diesel 3.86 x 4.33 in. (98 x 110 mm)

Net hp at 2500 rpm..... 42 SAE hp (31 kW) DIN 32 kW

Maximum Torque at 1300 rpm..... 110 lb-ft (149 N•m)

Nozzle Opening Pressure:

New 2750—2850 psi (18 959—19 647 kPa)
Used 2550—2650 psi (17 580—18 269 kPa)

Valve Clearance (Cold):

Intake..... 0.014 in. (0.38 mm)
Exhaust:

Diesel..... 0.018 in. (0.46 mm)
Gasoline 0.022 in. (0.56 mm)

Oil Pressure at 2500 rpm..... 50 ± 15 psi (345 ± 105 kPa)

Static Injection Pump Timing Timing lines aligned w/flywheel located at TDC

Dynamic Injection Pump Timing at Rated Load rpm* 16 + 0 - 1° BTDC

Speeds:

Slow Idle:

Diesel..... 800 rpm
Gasoline (S.N. —15905) 375 rpm
Gasoline (S.N. 15906—) 600 rpm

Fast Idle..... 2675—2700 rpm

Rated Full Load 2500 rpm

Cylinder Pressure Hot (Min):

Gasoline 120 psi (827 kPa)
Diesel 350 psi (2415 kPa) cranking with injectors removed

Flywheel Teeth..... 142

*Note: *For latest information, see Dealer Technical Assistance Center (DTAC) Solution K000413.*

TRANSMISSION

Model and Speeds..... Manually selected, sliding gear
with directional reverse, 4 forward,
1 reverse

Direction Reverser Relief at 2650 rpm..... 110—130 psi (758 kPa—896 kPa)

HYDRAULIC SYSTEM—Open-Center

Pump Size 1.48 cu in. (24.3 cm³)

Flow (Min) New, at 2250 psi (15 515 kPa) and 2500 rpm.... 14.0 gpm (53 L/min)

RELIEF VALVE SETTINGS

System Relief Valves:

Loader-Crawler:

(S.N. —600).....	2000 psi (13 790 kPa)
(S.N. 601—).....	2250 psi (15 511 kPa)

Circuit Relief Valves:

Bucket:

Dump	1000 psi (6 895 kPa)
Rollback (S.N. —600).....	2500 psi (17 240 kPa)
Rollback (S.N. 601—).....	2000 psi (13 790 kPa)

Boom:

Lift (S.N. —600).....	2500 psi (17 240 kPa)
Lift (S.N. 601—).....	2000 psi (13 790 kPa)

Backhoe Circuit Relief Valves:

(93 and 95 Backhoe):

Crowd	2375 psi (16 375 kPa)
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Swing:

Right	1500 psi (10 341 kPa)
Left.....	1500 psi (10 341 kPa)

Boom:

Raise	3000 psi (20 682 kPa)
Lower.....	2375 psi (16 375 kPa)

LUBRICANTS

See front of this book for the codes [].

CAPACITIES

	U.S.	Imp.	Metric
Direction Reverse [C].....	12 qt	10.0 qt	11.3 L
Engine:			
Cooling System [N]	3.25 gal	2.7 gal	12.3 L
Crankcase w/ Filter [E].....	9 qt	7.5 qt	8.5 L
Fuel Tank	22 gal	18.3 gal	83.0 L
Hydraulic System (Refill):			
Bulldozer [C]	6.4 gal	5.3 gal	24.5 L
Loader [C]	12.5 gal	5 gal	47.3 L
Steering Clutch and Final Drives [C]	10 gal	8.3 gal	38.0 L