

**350B CRAWLER BULLDOZER
350B CRAWLER LOADER**

**10,600 lb (5055 kg)
12,210 lb (5539 kg)**

Transport Height.....7 ft (1.8 m)
Transport Length.....8 ft 3 in. (2.09 m)
Machine Width5 ft (1.27 m)

ENGINE.....John Deere 300 Series

Number of Cylinders and Displacement:

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

Diesel 3 cylinders, 164 cu in. (2.7 L)

Air Intake System..... Naturally aspirated

Bore and Stroke 3.86 x 4.33 in. (98 x 110 mm) or
4.02 x 4.33 in. (1.02 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 3200 ± 50 psi (22 065 ± 345 kPa)

Used 3000 ± 50 psi (20 685 ± 345 kPa)

Valve Clearance (Cold):

Intake 0.014 in. (0.38 mm)

Exhaust 0.018 in. (0.46 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 800 rpm

Fast Idle 2650 rpm

Rated Full Load 2500 rpm

Cylinder Pressure Hot (Min) 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 Collar shift: 4 forward, 4 reverse

Lube Pressure at Fast Idle 17—33 psi (120—230 kPa)

Reverser Pressure at 2650 rpm:

(S.N. —278391) 120 ± 10 psi (830 ± 69 kPa)

(S.N. 278392—) 150 ± 10 psi (1030 ± 69 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)

Pump Size 2.29 cu in. (37.5 cm³)

Flow (Min) New at 2250 psi (15 515 kPa) and 2500 rpm 21.6 gpm (81.8 L/min)

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RELIEF VALVE SETTINGS

System Relief Valves:

Loader	2250 psi (15 515 kPa)
Selector Valve.....	2000 psi (13 790 kPa)
Bulldozer	1750 psi (12 065 kPa)
Winch at 1900 Engine rpm	950—1050 psi (6550—7240 kPa)

Loader Circuit Relief Valves:

Bucket:	
Dump (S.N. —206828)	1000 psi (6895 kPa)
Dump (S.N. 206829—)	1250 psi (8620 kPa)
Rollback	2500 psi (17 240 kPa)
Boom Lift	3100 psi (21 375 kPa)
Auxiliary	2500 psi (17 240 kPa)

9250 Backhoe Circuit Relief Valves:

Crowd	2500 psi (17 240 kPa)
Swing:	
Right	1800 psi (12 410 kPa)
Left.....	2375 psi (16 375 kPa)
Boom:	
Raise	2750 psi (18 960 kPa)
Lower.....	2500 psi (17 240 kPa)

9300 Backhoe Circuit Relief Valves:

Crowd	2375 psi (16 375 kPa)
Swing:	
Right	2000 psi (13 790 kPa)
Left.....	2000 psi (13 790 kPa)
Boom:	
Raise	3500 psi (24 135 kPa)
Lower.....	2375 psi (16 375 kPa)

9550 Backhoe Circuit Relief Valves:

Crowd	2500 psi (7 240 kPa)
Swing:	
Right	2375 psi (16 375 kPa)
Left.....	2375 psi (16 375 kPa)
Boom:	
Raise	2750 psi (18 960 kPa)
Lower.....	2500 psi (17 240 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]	6.4 gal	5.3 gal	24.5 L
Steering Clutch and Final Drives [C].....	10 gal	8.3 gal	38.0 L