

750 CRAWLER BULLDOZER

29,300 lb (11 810 kg)

Transport Height.....10 ft 2.6 in. (3.11 m)
Transport Length.....15 ft 5.6 in. (4.7 m)
Machine Width10 ft (3.05 m)

ENGINE.....John Deere 300 Series

Number of Cylinders and Displacement6 cylinders, 414 cu in. (6.8 L)
Air Intake System.....Turbocharged
Bore and Stroke4.19 x 5 in. (106 x 127 mm)
Net hp at 2100 rpm110 SAE hp 82 kW DIN 82 kW
Maximum Torque at 1300 rpm345 lb-ft (468 N•m)
Nozzle Opening Pressure:
 New3700 ± 50 psi (25 510 ± 345 kPa)
 Used3500 ± 50 psi (24 135 ± 345 kPa)
Valve Clearance (Cold):
 Intake0.014 in. (0.36 mm)
 Exhaust0.018 in. (0.46 mm)
Oil Pressure at Fast Idle50 ± 15 psi (345 ± 105 kPa)
Static Injection Pump TimingTiming lines aligned w/ flywheel located at TDC
Speeds:
 Slow Idle, Disconnect Clutch Engaged.....975—1000 rpm
 Fast Idle, Disconnect Clutch Engaged2275—2300 rpm
 Rated Full Load2100 rpm
Cylinder Pressure Hot (Min)350 psi (2415 kPa) cranking with injectors removed
Turbo Boost Pressure at Rated Full Load9—12 psi (62—83 kPa)
Flywheel Teeth.....129

TRANSMISSION

Model and Speeds.....Hydrostatic: variable speed, forward and reverse
High Pressure Relief (in Forward and Reverse)6100—6500 psi (42 060—44 820 kPa)
Maximum Engine rpm Pulldown1800 rpm

HYDRAULIC SYSTEM—Open-Center

Pump Size:
 (S.N. —365075)5.96 cu in. (97.7 cm³)
 (S.N. 365076—)4.98 cu in. (81.6 cm³)
Main System Relief at Fast Idle2000 + 175 - 0 psi (13 790 + 1200 - 0 kPa)
Pump Flow (Min) Used at 2000 psi (13 790 kPa)
 and 2100 rpm:
 (S.N. —365075)38 gpm (144 L/min)
 (S.N. 365076—)32 gpm (121 L/min)

RELIEF VALVE SETTINGS

System Relief Valve at Fast Idle (Bulldozer).....2000 + 175 - 0 psi (13 790 + 1210 - 0 kPa)
Circuit Relief Valve at Fast Idle:
 Blade Boom Lift2250 + 175 - 0 psi (15 515 + 1210 - 0 kPa)
 Auxiliary2250 + 175 - 0 psi (15 515 + 1210 - 0 kPa)

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LUBRICANTS

See front of this book for the codes [].

CAPACITIES

	U.S.	Imp.	Metric
Engine:			
Cooling System [N]	7 gal	5.8 gal	26.5 L
Crankcase w/ Filter [E]	20 qt	16.7 qt	18.9 L
Final Drive (Each):			
1st Reduction [J]	8.5 gal	7.1 gal	32.2 L
2nd Reduction [J]	3.5 gal	2.9 gal	13.2 L
1st Reduction 750 Narrow Gauge [J]	5.375 gal	4.5 gal	20 L
1st Reduction 750 LGP [J]	4.5 gal	3.7 gal	17 L
Fuel Tank	73 gal	60.8 gal	276.3 L
Hydraulic System [C]	33 gal	27.5 gal	124.9 L
Hydrostatic Drives [L]	33 gal	27.5 gal	124.9 L
Splitter [M]	1.5 gal	1.3 gal	5.7 L