

755 CRAWLER LOADER

32,005 lb (14 517 kg)

Transport Height.....	10 ft 2.6 in. (3.11 m)
Transport Length.....	17 ft 9 in. (5.41 m)
Machine Width	10 ft (3.05 m)

ENGINE.....John Deere 300 Series

Number of Cylinders and Displacement	6 cylinders, 414 cu in. (6.8 L)
Air Intake System.....	Turbocharged
Bore and Stroke	4.19 x 5 in. (106 x 127 mm)
Net hp at 2100 rpm.....	110 SAE hp (82 kW) DIN 82 kW
Maximum Torque at 1300 rpm.....	400 lb-ft (542 N•m)
Nozzle Opening Pressure:	
New	3700 + 50 psi (25 510 + 345 kPa)
Used	3500 + 50 psi (24 135 + 345 kPa)
Valve Clearance (Cold):	
Intake.....	0.014 in. (0.36 mm)
Exhaust	0.018 in. (0.46 mm)
Oil Pressure at Fast Idle	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*	15 + 0 - 1° BTDC
Speeds:	
Slow Idle, Disconnect Clutch Engaged.....	975—1000 rpm
Fast Idle, Disconnect Clutch Engaged	2275—2300 rpm
Rated Full Load	2100 rpm
Cylinder Pressure Hot (Min)	350 psi (2415 kPa) cranking with injectors removed
Turbo Boost Pressure at Rated Full Load	9—12 psi (62—83 kPa)
Flywheel Teeth.....	129

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

TRANSMISSION

Model and Speeds.....	Hydrostatic: variable speed, forward and reverse
Charge Pressure in Neutral	260—340 psi (1795—2345 kPa)
High Pressure Relief (in Forward and Reverse)	6100—6500 psi (42 060—44 820 kPa)
Oil Cooler Bypass Valve	40 psi (280 kPa)
Maximum Engine rpm Pulldown	1800 rpm

HYDRAULIC SYSTEM—Open-Center

Pump Size	6.88 cu in. (112.7 cm ³)
Pump Flow (Min):	
New	54 gpm (204.7 L/min) at 2500 psi (17 240 kPa) and 2100 rpm
Used	49.5 gpm (187.6 L/min) at 2500 psi (17 240 kPa) and 2300 rpm

RELIEF VALVE SETTINGS

System Relief Valve.....	2500 + 175 - 0 psi (17 240 + 1210 - 0 kPa)
Circuit Relief Valve:	
Bucket Dump.....	3000 + 225 - 0 psi (20 685 + 1550 - 0 kPa)
Bucket Rollback.....	3000 + 225 - 0 psi (20 685 + 1550 - 0 kPa)
Boom Lift	3000 + 225 - 0 psi (20 685 + 1550 - 0 kPa)
Auxiliary.....	3000 + 225 - 0 psi (20 685 + 1550 - 0 kPa)

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CYCLE TIMES (At Fast Idle and Hot Oil)

Boom Raise	5.0 sec
Bucket Dump	1.3 sec
Boom Lower (Float)	3.2 sec

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]	5.4 gal	5.2 gal	20.3 L
2nd Reduction [J]	3.5 gal	2.9 gal	13.2 L
Fuel Tank	73 gal	60.8 gal	276.3 L
Hydraulic System [C]	37 gal	30.8 gal	140.1 L
Hydrostatic Drives [L]	33 gal	27.5 gal	124.9 L
Splitter [M]	1.5 gal	1.3 gal	5.7 L