

**350D CRAWLER BULLDOZER  
355D CRAWLER LOADER**

**10,700 lb (5055 kg)  
12,400 lb (5625 kg)**

**Transport Height**.....7 ft 7 in. (2.31 m)  
**Transport Length**.....11 ft 3 in. (3.43 m)  
**Machine Width** .....6 ft 8 in. (2.03 m)

**ENGINE**.....**John Deere 300 Series**

Number of Cylinders and Displacement ..... 3 cylinders, 179 cu in. (2.9 L)  
Air Intake System..... Naturally aspirated  
Bore and Stroke ..... 4.19 x 4.33 in. (106.5 x 110 mm)  
Net hp at 2500 rpm ..... 48 SAE hp (36 kW) DIN 36 kW  
Maximum Torque at 1300 rpm ..... 126 lb-ft (170 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 ..... 150 ± 10 psi (1030 ± 69 kPa)

**HYDRAULIC SYSTEM—Open Center**

Pump Size ..... 1.48 cu in. (24.3 cm<sup>3</sup>)  
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 cm<sup>3</sup>)  
Flow (Min) new at 2250 psi  
    (15 515 kPa) and 2500 rpm ..... 21.6 gpm (81.8 L/min)

## RELIEF VALVE SETTINGS

### System Relief Valves:

Loader .....	2250 psi (15 515 kPa)
Selector Valve.....	2000 psi (13 790 kPa)
Bulldozer (6310).....	1750 psi (12 065 kPa)
Bulldozer (6305).....	2250 psi (15 514 kPa)
Winch at 1900 Engine rpm .....	950—1050 psi (6550—7240 kPa)

### Loader Circuit Relief Valves:

Bucket Dump .....	1250 psi (8620 kPa)
Bucket 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)
Swing Left.....	2375 psi (16 375 kPa)
Boom Raise .....	2750 psi (18 960 kPa)
Boom Lower .....	2500 psi (17 240 kPa)

### 9300 Backhoe Circuit Relief Valves:

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

### 9550 Backhoe Circuit Relief Valves:

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

## CYCLE TIMES

	Minimum Seconds	Maximum Seconds
<b>Bulldozer</b>		
Blade:		
Raise.....	3.0	5.0
Lower (Power Down) .....	1.2	2.4
Tilt .....	0.5	1.5
Angle.....	2.5	3.8
	Minimum Seconds	Maximum Seconds
<b>Loader (Empty Bucket)</b>		
Boom:		
Raise.....	6.0	10.0
Lower (Float Down).....	3.6	4.2
Lower (Power Down) .....	4.0	5.0
Bucket:		
Dump (Boom at Full Height) .....	1.7	2.3
Rollback (From Bucket Level).....	0.6	1.0
	Minimum Seconds	Maximum Seconds
<b>Backhoes</b>		
Bucket:		
Dump (Cylinder Retract) .....	2	5
Load (Cylinder Extend) .....	4	0

## LUBRICANTS

See front of this book for the codes [ ].

### CAPACITIES

	<b>U.S.</b>	<b>Imp.</b>	<b>Metric</b>
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