

## 855 CRAWLER LOADER

49,600 lb (19 543 kg)

|                       |                      |
|-----------------------|----------------------|
| Transport Height..... | 10 ft 10 in. (3.3 m) |
| Transport Length..... | 20 ft (6.1 m)        |
| Machine Width .....   | 12 ft 8 in. (3.8 m)  |

### ENGINE.....John Deere 500 Series

|   |  |
|---|--|
| Number of Cylinders and Displacement .....    | 6 cylinders, 619 cu in. (10.1 L)                   |
| Air Intake System.....                        | Turbocharged and aftercooler                       |
| Bore and Stroke .....                         | 5.12 x 5 in. (130 x 127 mm)                        |
| Net hp at 1800 rpm.....                       | 200 SAE hp (149 kW) (DIN 149 kW)                   |
| Maximum Torque at 1300 rpm.....               | 730 lb-ft (990 N•m)                                |
| Nozzle Opening Pressure:                      |  |
| New .....                                     | 4050 ± 50 psi (27 925 ± 345 kPa)                   |
| Used .....                                    | 3800 ± 50 psi (26 200 ± 345 kPa)                   |
| Valve Clearance (Cold):                       |  |
| Intake.....                                   | 0.015 in. (0.38 mm)                                |
| Exhaust .....                                 | 0.025 in. (0.063 mm)                               |
| Oil Pressure at 1900 rpm.....                 | 40—50 psi (275—345 kPa)                            |
| Static Injection Pump Timing .....            | Timing lines aligned w/ flywheel located at TDC    |
| Dynamic Injection Pump Timing                 |  |
| at Rated Load rpm* .....                      | 8 + 0 - 1° BTDC                                    |
| Speeds:                                       |  |
| Slow Idle .....                               | 975—1000 rpm (disconnect clutch engaged)           |
| Fast Idle.....                                | 1975—2000 rpm                                      |
| Rated Full Load .....                         | 1800 rpm   |
| Cylinder Pressure Hot (Min) .....             | 380 psi (2620 kPa) cranking with injectors removed |
| Turbo Boost Pressure at Rated Full Load ..... | 15—18 psi (105—125 kPa)                            |
| Flywheel Teeth.....                           | 147  |

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

### TRANSMISSION

|                                   |  |
|-----------------------------------|--|
| Model and Speeds.....             | Hydrostatic; variable speed, forward and reverse |
| High Pressure Relief.....         | 6300—6700 psi (43 440—46 195 kPa)                |
| Maximum Engine rpm Pulldown ..... | 1550 rpm   |

### HYDRAULIC SYSTEM—Open-Center

|   |  |
|---|--|
| Pump Size .....                               | 9.90 cu in. (162.2 cm <sup>3</sup> )       |
| Main System Relief.....                       | 2375 + 175 - 0 psi (16 375 + 1210 - 0 kPa) |
| Pump Flow (Min) Used at 2000 psi (13 790 kPa) |  |
| and 1700 rpm .....                            | 58.5 gpm (221.4 L/min)                     |

### RELIEF VALVE SETTINGS

|                                  |  |
|----------------------------------|--|
| System Relief Valve at 1250 rpm: |  |
| Loader .....                     | 2375 + 175 - 0 psi (16 375 ± 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) |

### CYCLE TIMES (At Fast Idle and Hot Oil)

|                     |         |
|---------------------|---------|
| Boom:               |         |
| Raise .....         | 6.7 sec |
| Lower (Float) ..... | 3.7 sec |
| Bucket Dump .....   | 1.5 sec |

Continued on next page

## LUBRICANTS

See front of this book for the codes [ ].

### CAPACITIES

|                               | <b>U.S.</b> | <b>Imp.</b> | <b>Metric</b> |
|-------------------------------|-------------|-------------|---------------|
| Engine:                       |             |             |               |
| Cooling System [N] .....      | 10.5 gal    | 8.7 gal     | 39.8 L        |
| Crankcase w/ Filter [E] ..... | 36 qt       | 28 qt       | 34 L          |
| Final Drive (Each):           |             |             |               |
| 1st Reduction [J] .....       | 6.25 gal    | 5.2 gal     | 23.6 L        |
| 2nd Reduction [J] .....       | 3.5 gal     | 2.9 gal     | 13.2 L        |
| Fuel Tank .....               | 106 gal     | 88.3 gal    | 401.2 L       |
| Hydraulic System [C] .....    | 40 gal      | 33.3 gal    | 151.4 L       |
| Splitter [M] .....            | 1.5 gal     | 1.3 gal     | 5.7 L         |