



302A LOADER

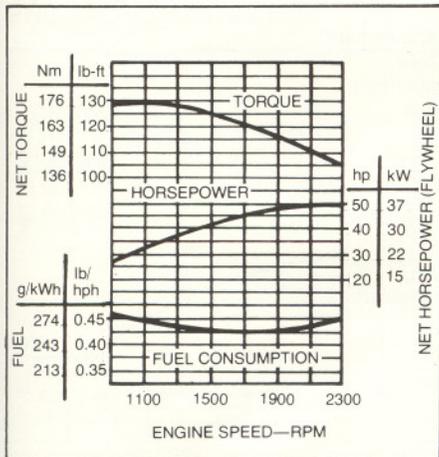
FEATURES

- 50 SAE net hp (37.3 kW)
- 8-speed transmission w/hydraulic direction reverser
- Self-adjusting wet-disk brakes
- Inboard planetary final drives
- Foot-operated differential lock
- Power steering
- Choice of 2 loader buckets
- Single-lever loader control
- Roll-over protective structure (ROPS)

ADD VERSATILITY WITH:

- Backhoe
- Mowers
- Landscape tools

ENGINE PERFORMANCE

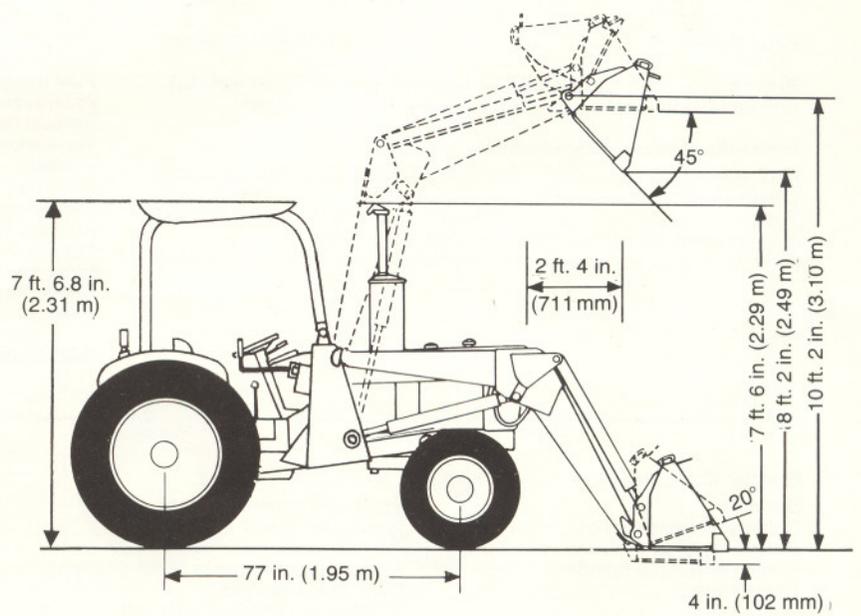


LOADER SPECIFICATIONS

| Buckets: | Nominal Heaped Capacity | Width |
|------------------------------------|-------------------------|-------|
| 3/4 cu. yd. (0.57 m ³) | 81.125 in. (2.06 m) | |
| 1 cu. yd. (0.76 m ³) | 81.125 in. (2.06 m) | |

Operating Information:

- Breakout force 5000 lb. (22.41 kN) (2270 kg)
- Digging depth below ground level (w/bucket level) 4 in. (102 mm)
- Lifting capacity, full height 3300 lb. (1500 kg)
- Height to bucket hinge pin 10 ft. 2 in. (3.10 m)
- Clearance, bucket dumped at 45 degrees 8 ft. 2 in. (2.49 m)
- Reach at maximum height, bucket dumped at 45 degrees 2 ft. 4 in. (711 mm)
- Raising time to full height 3.7 sec.
- Bucket dump time 1.6 sec.
- Lowering time (power) 2.0 sec.
- Minimum effective rear wheel counterweight required, except when used with backhoe 2000 lb. (907 kg)



302A LOADER SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 14.9-24, 6-ply-rating, R4 rear tires; 11L-15, 8-ply-rating, F3 front tires; ¾ cu. yd. (0.57 m³) utility bucket, and standard equipment.)

Power (@ 2500 engine rpm):

| | SAE | DIN |
|-------|-----------------|---------|
| Gross | 52 hp (38.8 kW) | |
| Net | 50 hp (37.3 kW) | 53.2 PS |

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator, and muffler. Gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85°F. temperature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C. temperature.

Engine: John Deere 3-cylinder diesel, valve-in-head, 4-stroke cycle

| | |
|-----------------------------------|---|
| Bore and stroke | 4.02×4.33 in. (102×110 mm) |
| Piston displacement | 164 cu. in. (2.688 L) |
| Compression ratio | 16.2 to 1 |
| Maximum torque @ 1300 rpm | 129 lb-ft (175 Nm) (17.8 kg-m) |
| NACC or AMA (U.S. Tax) horsepower | 19.4 |
| Main bearings | 4 |
| Lubrication | Pressure system w/full-flow filter |
| Cooling | Pressurized w/thermostat and fixed bypass |
| Fan | Suction |
| Air cleaner | Dry |
| Electrical system | 12-volt w/alternator |
| Batteries (two 12 volt) | |
| 72 amps each | Reserve capacity: 220 minutes |
| Alternator | 35 amps |

Engine Clutch Foot-operated, single 10-in. (254 mm) plate

Transmission:

Constant mesh, 8 speeds forward, 8 reverse. Standard hydraulic direction reverser permits no-clutch reversing in all gears.

| Gear: | Travel Speeds | | | |
|-------|---------------|------|------|------|
| | mph | | km/h | |
| | Fwd. | Rev. | Fwd. | Rev. |
| 1 | 1.3 | 1.6 | 2.1 | 2.6 |
| 2 | 1.9 | 2.2 | 3.1 | 3.5 |
| 3 | 2.9 | 3.3 | 4.7 | 5.3 |
| 4 | 4.0 | 4.7 | 6.4 | 7.6 |
| 5 | 5.3 | 6.2 | 8.5 | 10.0 |
| 6 | 7.6 | 8.8 | 12.2 | 14.2 |
| 7 | 11.2 | 13.0 | 18.0 | 20.9 |
| 8 | 15.7 | 18.3 | 25.3 | 29.4 |

Final Drives Inboard, planetary

Brakes Hydraulically actuated, fully enclosed wet-disk. Self-equalizing. Foot-operated individually or simultaneously

Hydraulic System: Closed-center

| | |
|----------------|--|
| Max. pressure | 2350 psi (16 203 kPa) (165.2 kg/cm ²) |
| Loader control | Single-lever |
| Pump | Piston, constant pressure, variable-displacement, 28 gpm (1.76 L/s) at 2500 engine rpm |
| Filter | 25-micron steel-enclosed paper cartridge in return |

Hydraulic Cylinders:

| | Bore | Stroke |
|---------------|---|----------------------|
| Boom | 2.75 in. (70 mm) | 28.33 in. (720 mm) |
| Bucket | 2.5 in. (64 mm) | 27.25 in. (692 mm) |
| Cylinder rods | Ground, heat-treated, chrome-plated, polished | |
| | | 1.5-in. (38 mm) dia. |

Steering

| | Power |
|--|-----------------------|
| Turning radius (brake applied) | 10 ft. 1 in. (3.07 m) |
| Loader clearance (brake applied) | 29 ft. 6 in. (8.99 m) |
| Number of turns, far left to far right | 3.3 |

Tires:

| Front | Rear |
|---------------------------------|----------------------------|
| 7.50/8.00-16, 10-ply-rating, F3 | 14.9-24, 6-ply-rating, R3 |
| 11L-15, 8-ply-rating, F3 | 14.9-24, 6-ply-rating, R4 |
| | 17.5L-24, 8-ply-rating, R4 |

Wheel Treads:

| | |
|-------|-----------------|
| Front | 62 in. (1.57 m) |
| Rear | 60 in. (1.52 m) |

Dimensions:

| | |
|-------------------------------------|-------------------------|
| Height to top of hood | 4 ft. 7 in. (1.40 m) |
| Overall width w/o bucket | 6 ft. 3 in. (1.91 m) |
| Overall length | 14 ft. 5 in. (4.47 m) |
| Ground clearance (under front axle) | 1 ft. 5.25 in. (438 mm) |
| Ground clearance, min. | 12 in. (305 mm) |
| Overall length w/3-pt. hitch | 15 ft. 4.2 in. (4.68 m) |

Capacities:

| | U.S. | Imp. | Liters |
|--------------------------------------|-----------|-----------|--------|
| Cooling system | 3 gal. | 2.5 gal. | 11.4 |
| Fuel tank | 19.5 gal. | 16.3 gal. | 73.8 |
| Engine lubrication, including filter | 9 qt. | 7.5 qt. | 8.5 |
| Transmission and hydraulic system | 10 gal. | 8.3 gal. | 37.9 |
| Loader hydraulic system | 2.5 gal. | 2.1 gal. | 9.5 |

Additional Standard Equipment:

- Oil pressure indicator light
- Alternator charge indicator light
- Water temperature gauge
- Key switch safety start
- Lights
- Differential lock
- Foot throttle
- Bucket-level indicator
- Fuel gauge
- Antifreeze
- Vertical muffler w/rain cap
- Transistorized voltage regulator
- Fenders
- Fuel filter
- Cushioned seat
- Air cleaner restriction indicator
- Cigaret lighter
- Ether starting aid
- Speed-hourmeter
- Horn

SAE Operating Weight 7550 lb. (3425 kg)

Special Equipment

- Backhoe
- Collar shift transmission
- Counterweights w/bucket (w/o 3-point hitch or remote cylinder)
- Deluxe seat

- Front axle counterweights
- Front grille guard
- Parking brake
- Rear PTO (continuous "live" 540 rpm)
- Rear wheel weights
- ROPS w/canopy and seat belt

- Single remote hydraulic cylinder control w/quick-disconnect coupler
- Swinging drawbar
- 3-inch (76 mm) seat belt
- 3-point hitch (Category 1 or 2 w/sway blocks and regular or short links)