## ENGINE

- **Type**: Yanmar 4TN98 - Naturally Aspirated Direct Injection Diesel, (meets EPA emissions regulations)
- **Rated power**: 58 SAE gross hp (43 kW) 55 SAE net hp (41 kW) @ 2,200 rpm
- **Cylinders**: 4
- **Displacement**: 202 cu. in. (3.318 L)
- **Maximum net torque**: 166 ft.-lb. (225 Nm) @ 1,100 rpm
- **Fuel consumption, typical**: 1.0 to 2.0 gal./hr. (3.8 to 7.6 L/hr)
- **Cooling fan**: Blower
- **Electrical system**: 24 volt with 35-amp alternator
- ** Batteries (two 12 volt)**: reserve capacity: 332 min., 320 CCA

## TRANSMISSION
- **Type**: Hydrostatic (HST) with infinitely-variable speed control; two-speed power-shift transmission coupled with the HST to provide full range of operating speeds and direction reversal
- **Controls**: Low-effort electric shift, single lever for direction and speed changes; HST inching pedal
- **Travel speeds**
  - **Gear 1**: 6.0 mph (9.6 km/h)
  - **Gear 2**: 20.0 mph (32.2 km/h)

## AXLES/BRAKES
- **Final drives**: heavy-duty planetary, mounted inboard
- **Differentials**: conventional front and rear
- **Rear axle oscillation**: 22 degrees, stop to stop
- **Maximum rise and fall, single wheel**: 11.2 in. (284 mm)
- **Brakes (conform to SAE J1473, ISO3450)**
  - **Service brakes**: inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting
  - **Parking brake**: automatically spring applied, hydraulically released, disc and caliper type, attached to transmission output shaft

## HYDRAULIC SYSTEM/STEERING
- **Pump (loader and steering)**: gear-type, open-center system
- **Maximum flow**: 21.2 gpm (80 L/min.) @ 2,990 psi (20 615 kPa) and @ 2,200 engine rpm
- **Pressure**
  - **Loader relief**: 2,990 psi (20 615 kPa)
  - **Steering relief**: 1,990 psi (13 720 kPa)
- **Loader controls**: two-function valve with single lever and control lever lockout
  - optional three-function valve with auxiliary lever
- **Hydraulic cycle times**
  - **Raise**: 4.3 sec.
  - **Dump**: 0.8 sec.
  - **Lower**: 3.8 sec. (float down) / 2.9 sec. (power down)
- **Maximum lift capacity**
  - **with 1.3 cu. yd. (1.0 m³) light-material bucket**: 9,560 lb. (4336 kg)
  - **Lift at maximum height**: 4,409 lb. (2000 kg)
- **Steering (conforms to SAE J1511)**
  - **Type**: Power, fully hydraulic
  - **Relief valve setting**: 1,990 psi (13 720 kPa)
  - **Articulation angle**: 90 degrees arc (40 degrees each direction)
  - **Turning radius (measured to center-line of outside tire)**: 12 ft. 5 in. (3.79 m)

## TIRES
- **Standard**: 17.5/65-20, 10 PR L2
- **Tread width**: 38 in. (1470 mm)
- **Width over tires**: 76 in. (1930 mm)

## CAPACITIES (U.S.)
- **Fuel tank with ground level fueling**: 18.5 gal. (70.0 L)
- **Engine lubrication, including full-flow spin-on filter**: 12.2 qt. (11.5 L)
- **Power shift transmission, including vertical cartridge filter**: 10.6 qt. (10.0 L)
- **Front or rear differential (each)**: 10.0 qt. (9.5 L)
- **Loader-hydrostatic reservoir**: 19.3 gal. (73.0 L)
- **Brake oil reservoir**: 0.1 qt. (0.1 L)
ADJUSTMENTS TO OPERATING WEIGHTS FOR PIN-ON BUCKETS

Bucket Type/Size Light Material General Purpose
Capacity, heaped SAE 1.3 cu. yd. (1.0 m³) 1.0 cu. yd. (0.77 m³)
Capacity, struck SAE 1.2 cu. yd. (0.99 m³) 0.9 cu. yd. (0.69 m³)
Breakout force, SAE J732C 8,666 lb. (38.5 kN) 10,143 lb. (45.1 kN)
Reach, 45-degree full turn, SAE 6,429 lb. (2916 kg) 6,470 lb. (2935 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance 47.8 in. (1215 mm) 46.7 in. (1185 mm)
Reach, 45-degree dump, full height 36.7 in. (933 mm) 33.3 in. (845 mm)
Overall length 16 ft. 8 in. (5.07 m) 16 ft. 3 in. (4.95 m)

Add (+) or deduct (–) lb. (+ 45 kg) as indicated

ADJUSTMENTS TO OPERATING WEIGHTS FOR PIN-ON BUCKETS

BOLT-ON BUCKET ADDITIONS

Add (+) or deduct (–) lb. (kg) as indicated for loaders with 1.3 cu. yd. (1.0 m³) light-material bucket

Bolt-on cutting edge and skid shoes 143 lb. (+ 65 kg)
Bolt-on bucket teeth 100 lb. (+ 45 kg)

BUCKET SELECTION GUIDE *

BUCKET INFORMATION (PIN-ON)

DIMENSIONS WITH BUCKET 244H

Adjustments to operating weights and tipping loads for 1.3 cu. yd. (1.0 m³) light-material bucket

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BUCKET SELECTION GUIDE *

ADJUSTMENTS TO OPERATING WEIGHTS FOR PIN-ON BUCKETS

Add (+) or deduct (–) lb. (kg) as indicated

BUCKET SELECTION GUIDE *

LOADER WITH CAB AND CaCl₂ IN REAR TIRES

Turquoise blue—loader with cab and CaCl₂ in rear tires 10 PR L2 (no fluid) tires, ROPS cab, 175-lb. (79 kg) operator, and full fuel tank.

Operating Weight 11,400 lb. (5171 kg) 11,370 lb. (5157 kg)
Tipping load, 40-degree full turn 6,429 lb. (2916 kg) 6,470 lb. (2935 kg)
Tipping load, 35-degree turn 6,636 lb. (3010 kg) 6,680 lb. (3030 kg)
Breakout force, SAE J732C 8,666 lb. (38.5 kN) 10,143 lb. (45.1 kN)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance 47.8 in. (1215 mm) 46.7 in. (1185 mm)
Reach, 45-degree dump, full height 36.7 in. (933 mm) 33.3 in. (845 mm)
Reach, 45-degree dump, 7-ft. (2.13 m) carry position 29 ft. 4 in. (8.90 m) 29 ft. 2 in. (8.80 m)

Loader operating information is based on machine with all standard equipment, 17.5/65-20, 10 PR L2 tires with CaCl₂

+ 750 lb. (+ 340 kg) + 922 lb. (+ 418 kg) + 835 lb. (+ 379 kg) + 805 lb. (+ 365 kg)

+ 100 lb. (+ 45 kg) – 121 lb. (– 55 kg) – 106 lb. (– 48 kg) – 103 lb. (– 47 kg)

+ 143 lb. (+ 65 kg) – 176 lb. (– 80 kg) – 154 lb. (– 70 kg) – 148 lb. (– 67 kg)

+ 29 lb. (+ 13 kg) – 32 lb. (– 15 kg) – 29 lb. (– 13 kg) – 28 lb. (– 13 kg)

+ 75 lb. (+ 34 kg) + 92 lb. (+ 42 kg) + 85 lb. (+ 38 kg) + 80 lb. (+ 36 kg)

BUCKET SELECTION GUIDE *

Note: See Bucket Information below.
Maintenance and repair is an important decision on machine maintenance and repair. Their mission is to lend a personal quality to Total Repair Cost Management. Deere and is honored by all Deere construction dealers.

1.0 cu. yd. (0.8 m³) excavating bucket

Component lifecycle data – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to prevent catastrophic downtime by servicing major components at about 90 percent of their life cycle.

To help you implement a plan that’s right for you and take the burden of machine maintenance off your shoulders.

Customer Support Advisors (CSAs) – Deere believes the CSA program lends a personal quality to Total Repair Cost Management. Certified Customer Support Advisors have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that’s right for you and take the burden of machine maintenance off your shoulders.