



455D LOADER

FEATURES

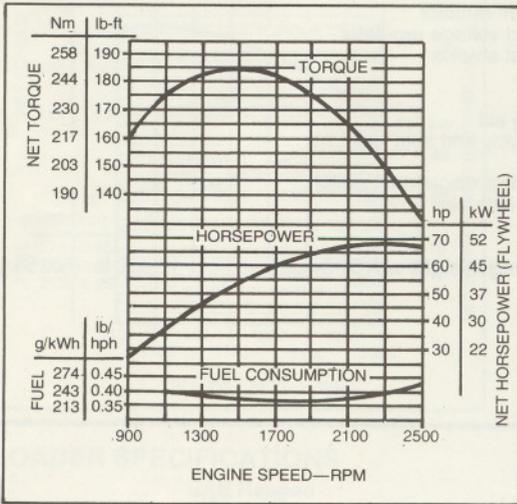
- 67 SAE net hp (50 kW)
- Single-lever loader control
- Power Shift Hi-Lo-Reverse
- Dura-Trax™ undercarriage with boron-steel deep-heat-treated, strutted, sealed track links; deep-heat-treated sealed rollers; boron-steel through-hardened grousers; sealed front idler and carrier roller
- Self-adjusting, oil-cooled steering clutches and brakes
- Roll-over protective structure (ROPS)
- Vandal protection

ADD VERSATILITY WITH:

- Winch
- Fairlead and drawbar
- Ripper
- Backhoe
- Multipurpose bucket
- Log and lumber fork
- Integral log arch



ENGINE PERFORMANCE

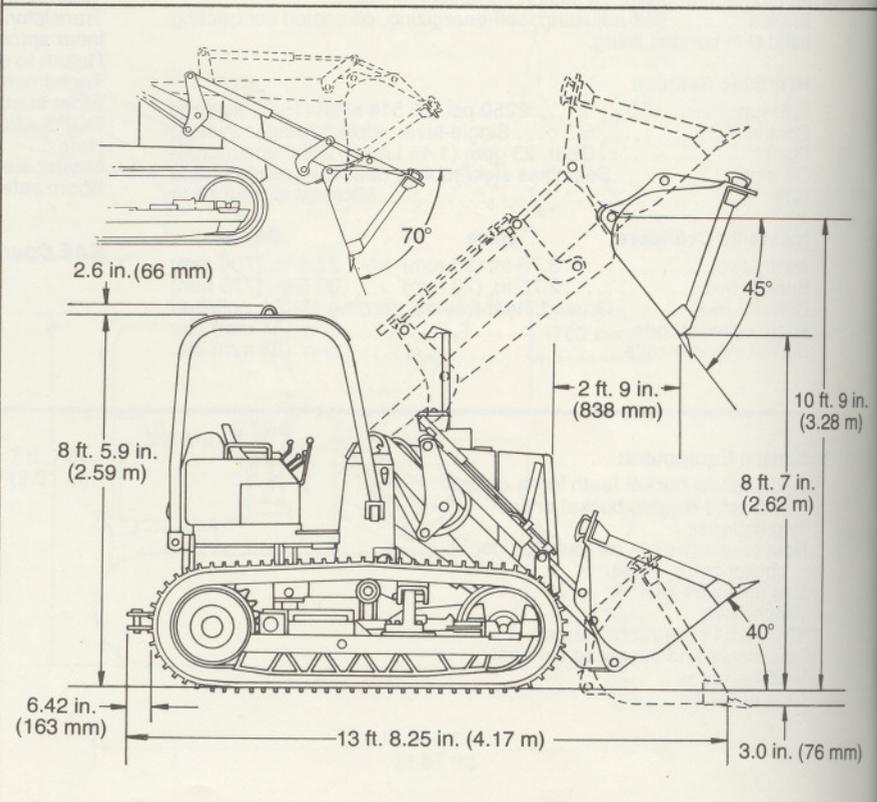


LOADER SPECIFICATIONS

	SAE Heaped Capacity	Width
Buckets:		
Digging	1¼ cu. yd. (0.96 m³)	72.25 in. (1.84 m)
Multipurpose	1½ cu. yd. (0.96 m³)	73 in. (1.85 m)

Operating Information:

- Breakout force15,174 lb. (68 kN) (6883 kg)
- SAE tipping load11,000 lb. (4990 kg)
- Maximum dumping angle50 deg.
- Raising time7.0 sec.
- Dumping time1.6 sec.
- Lowering time4.0 sec.



455D 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 1 1/4 cu. yd. (0.96 m³) digging bucket w/teeth, roll-over protective structure, full fuel tank, 175-lb. (79 kg operator) and standard equipment.)

Power (@ 2500 engine rpm):	SAE	DIN
Gross	72 hp (53.7 kW)	
Net	67 hp (50 kW)	50 kW

Net engine power is with standard equipment including air cleaner, exhaust system, alternator and cooling fan. Gross power is without cooling fan. Power ratings are at standard conditions per SAE J1349 and DIN 6270. No derating is required up to 10,000 feet (3050 m) altitude.

Engine: John Deere 4-cylinder turbocharged diesel, 4-stroke cycle
 Bore and stroke 4.02×4.33 in. (102×110 mm)
 Piston displacement 219 cu. in. (3.589 L)
 Compression ratio 16.2 to 1
 Maximum torque @ 1400 rpm 190 lb-ft (258 Nm) (26.3 kg-m)
 Torque rise 35 percent
 NACC or AMA (U.S. Tax) horsepower 25.8
 Lubrication Pressure system w/full-flow filter
 Main bearings 5
 Cooling Pressurized w/thermostat and fixed bypass
 Fan Blower
 Air cleaner w/restriction indicator Dry
 Electrical system 12-volt w/alternator
 Battery (12 volt) Reserve capacity: 180 minutes

Transmission H-L-R: 4 speed ranges; with high, low and reverse speeds shifted hydraulically without clutching in each range.

Clutch 11-in. (279 mm) single-disk

Gear	Travel Speeds		Gear	Travel Speeds	
	mph	km/h		mph	km/h
Range 1			Range 3		
Low	1.3	2.1	Low	3.0	4.8
High	1.8	2.9	High	4.3	6.9
Reverse	1.7	2.7	Reverse	4.1	6.6
Range 2			Range 4		
Low	2.0	3.2	Low	4.7	7.6
High	2.8	4.5	High	6.7	10.8
Reverse	2.7	4.3	Reverse	6.4	10.3

Steering:

Steering clutches and brakes are controlled by a single lever for each track (pedal steering optional). A pedal provides braking and lock-down for parking.

Clutches Oil-cooled, hydraulically-actuated, multiple-disk, 11-in. (279 mm) disks, 16 friction surfaces per clutch.

Brakes Self-adjusting, self-energizing, oil-cooled contracting band with bonded lining.

Hydraulic System:

Control Single-lever triple hydraulic system
 Pump Gear, 28 gpm (1.76 L/s)
 Pressure 2250 psi (15 514 kPa) (158.2 kg/cm²)
 Oil lines Seamless steel tubing; double-wire-braid hose
 Filter Spin-on micron

Hydraulic Cylinders:	Bore	Stroke
Boom, two	4.25 in. (108 mm)	28.25 in. (718 mm)
Bucket, two	3.5 in. (89 mm)	31.1 in. (790 mm)
Cylinder rods	Ground, heat-treated, chrome-plated, polished	
Boom cylinder rods	2.25 in. (57 mm) dia.	
Bucket cylinder rods	1.75 in. (44 mm) dia.	

Undercarriage: (5-roller track frame with full-length rock guards. Dura-Trax™ deep-heat-treated components.)

Triple semi-grouser, open-center 14 in. (356 mm)
 Track shoes, each side 37
 Ground contact area 2128 sq. in. (13 729 cm²)
 Ground pressure 8.1 psi (55.8 kPa) (0.569 kg/cm²)
 Length of track on ground 76 in. (1.93 m)
 Track gauge 52 in. (1.32 m)
 Carrier roller 1
 Adjustment Hydraulic
 Clearance at rear crossbar 14.25 in. (362 mm)

Capacities:	U.S.	Liters
Cooling system	4 gal.	15
Fuel tank	31 gal.	117
Crankcase, including filter	9 qt.	8.5
Transmission	8 gal.	30
Final drive (each)	6.25 qt.	5.91
Loader hydraulic reservoir	7 gal.	27
Loader hydraulic system	13 gal.	49
Steering clutch housing (each side)	28 qt.	26.5

Additional Standard Equipment:

Boom safety lock bar
 Bottom guard counterweight
 w/fixed drawbar
 Bucket level indicator
 Cold-weather starting aid
 Deluxe cushion seat w/armrests
 Electric hourmeter
 Engine side shields
 Front idler shield
 Front hitch
 Front and rear bottom guards
 Horn
 Key switch w/pushbutton safety
 start
 Lights
 Master electrical disconnect switch
 Muffler
 Precleaner
 Radiator sand shield
 Return to dig
 ROPS w/canopy and seat belt
 Sprocket weights
 Tachometer
 Trash-resistant radiator
 Vandal protection

SAE Operating Weight w/ROPS 17,150 lb. (7780 kg)

Special Equipment:

Brush screens
 Cab (includes ROPS)
 Cigaret lighter
 Limb risers w/overhead exhaust
 PTO (1000 rpm)
 Rear counterweight for multipurpose
 bucket or log loader
 13-in. (330 mm) rubber shoes
 Two batteries
 Winch drive