



# JD450-C LOADER

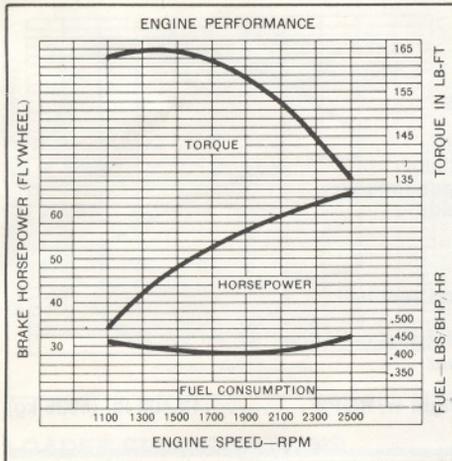
## FEATURES

- 65 SAE net hp (65.9 PS)
- Single-lever loader control
- Power Shift Hi-Lo-Reverse
- Hydraulic track adjustment
- Sealed track rollers and idlers
- Sealed track links
- Self-adjusting, oil-cooled steering clutches and brakes
- Roll-over protective structure (ROPS)
- Vandal protection

## ADD VERSATILITY WITH:

- Winch
- Fairlead and drawbar
- Ripper
- Backhoe
- Log and Lumber fork
- Integral log arch

## ENGINE PERFORMANCE

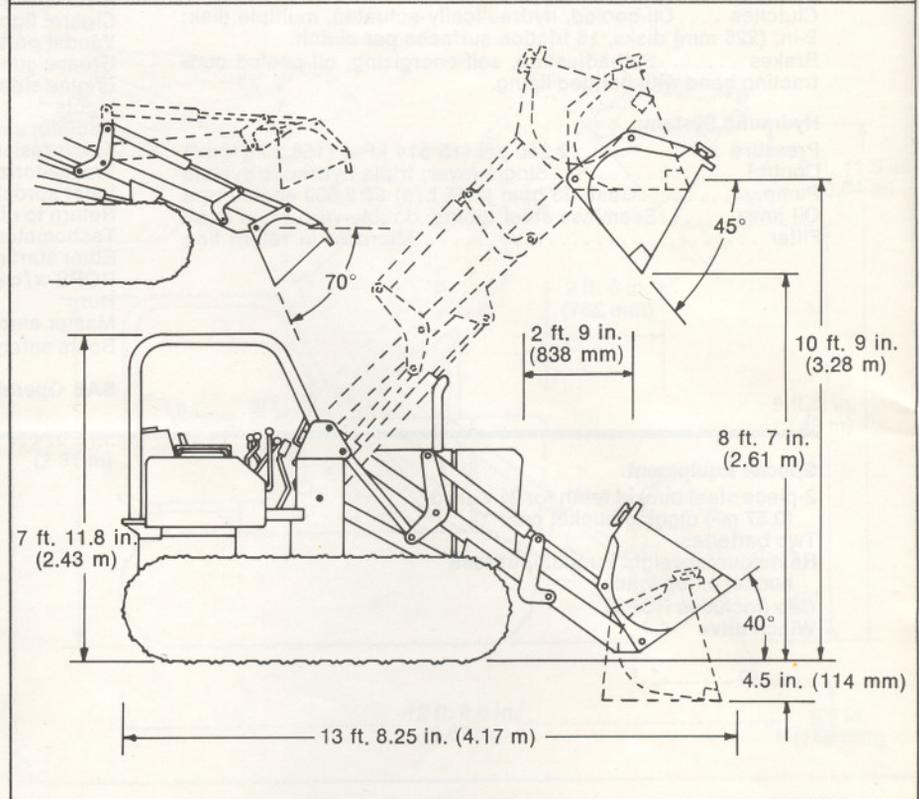


## LOADER SPECIFICATIONS

Buckets:	SAE Heaped Capacity	Width
Digging	1¼ cu. yd. (0.96 m <sup>3</sup> )	72.25 in. (1.84 m)
Light Materials	1¾ cu. yd. (1.34 m <sup>3</sup> )	78.25 in. (1.99 m)
Multipurpose	1¼ cu. yd. (0.96 m <sup>3</sup> )	73 in. (1.85 m)

### Operating Information:

- Breakout force . . .14,360 lb. (64.4 kN)(6513 kg)
- SAE tipping load . . . . .9,200 lb. (4173 kg)
- Maximum dumping angle . . . . .50 deg.
- Raising time . . . . .7.0 sec.
- Dumping time . . . . .1.6 sec.
- Lowering time . . . . .4.0 sec.



## JD450-C 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 1¼ cu. yd. (0.96 m<sup>3</sup>) digging bucket w/teeth, roll-over protective structure, and standard equipment.)

<b>Power (@ 2500 engine rpm):</b>	<b>SAE</b>	<b>DIN</b>
Gross .....	70 hp (52.2 kW)	
Net .....	65 hp (48.5 kW)	65.9 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator. The gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85° F. temperature, and DIN 6270 conditions (non-corrected). No derating is required up to 10,000 feet (3000 m) altitude.

**Engine:** John Deere 4-cyl. turbocharged diesel, 4-stroke cycle  
 Bore and stroke ..... 4.02x4.33 in. (102x110 mm)  
 Piston displacement ..... 219 cu. in. (3588 cm<sup>3</sup>)  
 Compression ratio ..... 16.2 to 1  
 Maximum torque @ 1400 rpm 164.5 lb-ft (223 Nm)(22.74 kg-m)  
 NACC or AMA (U.S. Tax) horsepower ..... 23.84  
 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. (279mm) 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. A pedal provides braking, and lock-down for parking.

Clutches ... Oil-cooled, hydraulically-actuated, multiple-disk, 11-in. (279mm) 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/cm<sup>2</sup>)  
 Oil lines ..... Seamless steel tubing; double-wire-braid hose  
 Filter ..... Micronic in return line

<b>Hydraulic Cylinders:</b>	<b>Bore</b>	<b>Stroke</b>
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.	

### Tracks (5-roller track frames w/rock guards):

Triple semi-grouser, open center .....	14 in. (356 mm)
Track shoes, each side .....	37
Ground contact area .....	2128 sq. in. (13 729 cm <sup>2</sup> )
Ground pressure .....	7.8 psi (53.8 kPa) (0.548 kg/cm <sup>2</sup> )
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)

<b>Capacities:</b>	<b>U.S.</b>	<b>Imp.</b>	<b>Liters</b>
Cooling system .....	4 gal.	3.3 gal.	15.1
Fuel tank .....	31 gal.	25.8 gal.	117.3
Crankcase, including filter .....	9 qt.	7.5 qt.	8.5
Transmission .....	8 gal.	6.7 gal.	30.3
Final drive (each) .....	6.25 qt.	5.2 qt.	5.9
Loader hydraulic reservoir .....	7 gal.	5.8 gal.	26.5
Loader hydraulic system .....	13 gal.	10.8 gal.	49.2
Steering clutch housing (each side) ..	28 qt.	23.3 qt.	26.5

### Additional Standard Equipment:

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

**SAE Operating Weight w/ROPS** ..... 16,700 lb. (7582 kg)

### Special Equipment:

PTO (1000 rpm)  
 Spark-arresting muffler  
 Cab (includes ROPS)  
 Two batteries  
 Rear counterweight for multipurpose bucket or log loader  
 Winch drive  
 Limb risers w/overhead exhaust  
 Brush screens