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

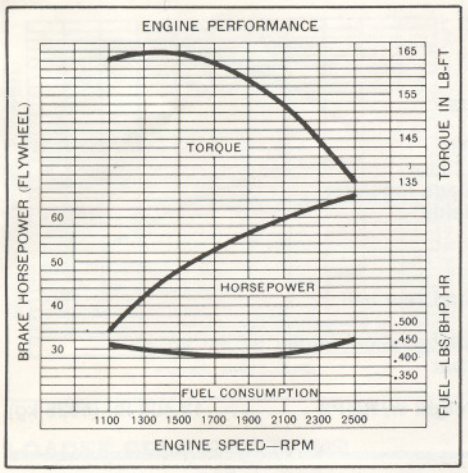
Ripper

Backhoe

Log and Lumber fork

Integral log arch

ENGINE PERFORMANCE



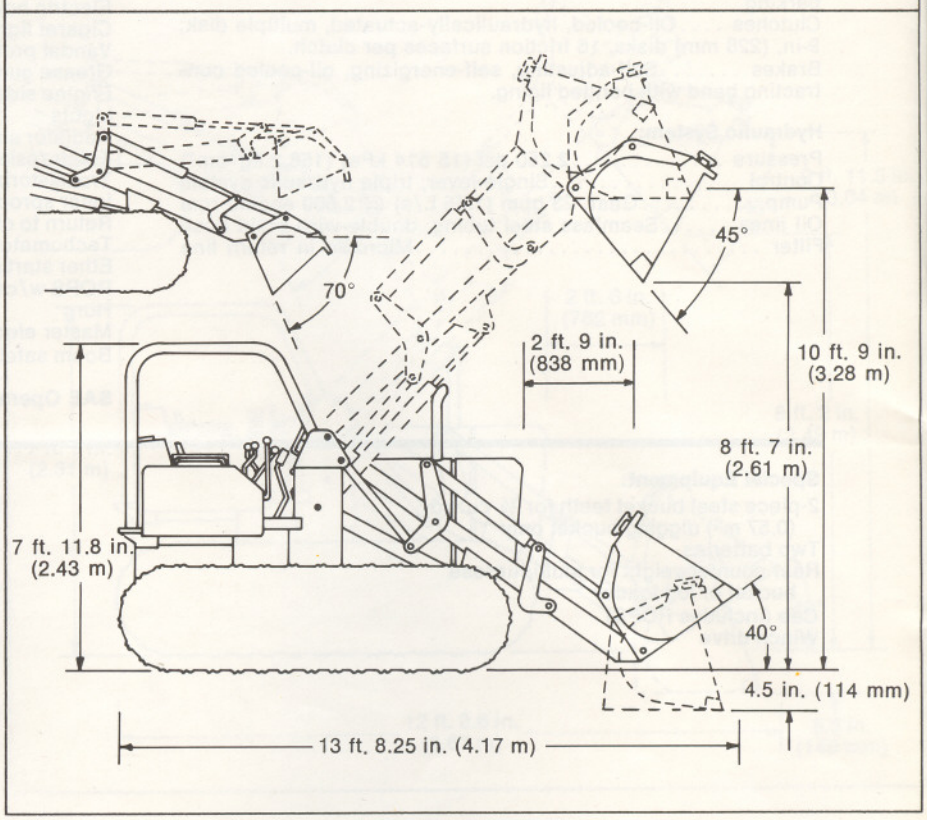
LOADER SPECIFICATIONS

Buckets:	SAE Heaped Capacity	Width
Digging	1¼ cu. yd. (0.96 m³)	72.25 in. (1.84 m)
Light Materials	1¾ cu. yd. (1.34 m³)	78.25 in. (1.99 m)
Multipurpose	1¼ cu. yd. (0.96 m³)	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 m³) digging bucket w/teeth, roll-over protective structure, and standard equipment.)

Power (@ 2500 engine rpm):	**SAE**	**DIN**
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^3)
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**	
Range 1	**mph**	**km/h**	Range 3	**mph**	**km/h**
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^2)
Oil lines ..... Seamless steel tubing; double-wire-braid hose
Filter ..... Micronic in return line

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.	

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^2)
Ground pressure ..... 7.8 psi (53.8 kPa) (0.548 kg/cm^2)
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.**	**Imp.**	**Liters**
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
Cigaret 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