



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

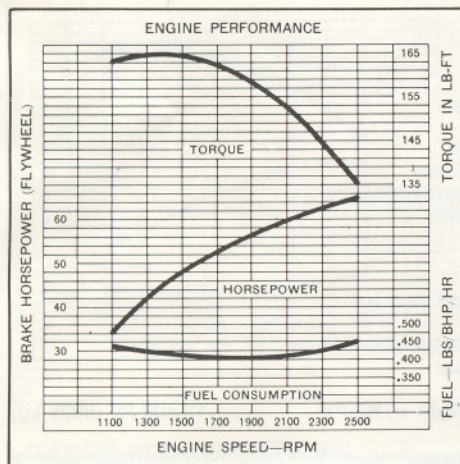
Ripper

Backhoe

Log and Lumber fork

Integral log arch

ENGINE PERFORMANCE

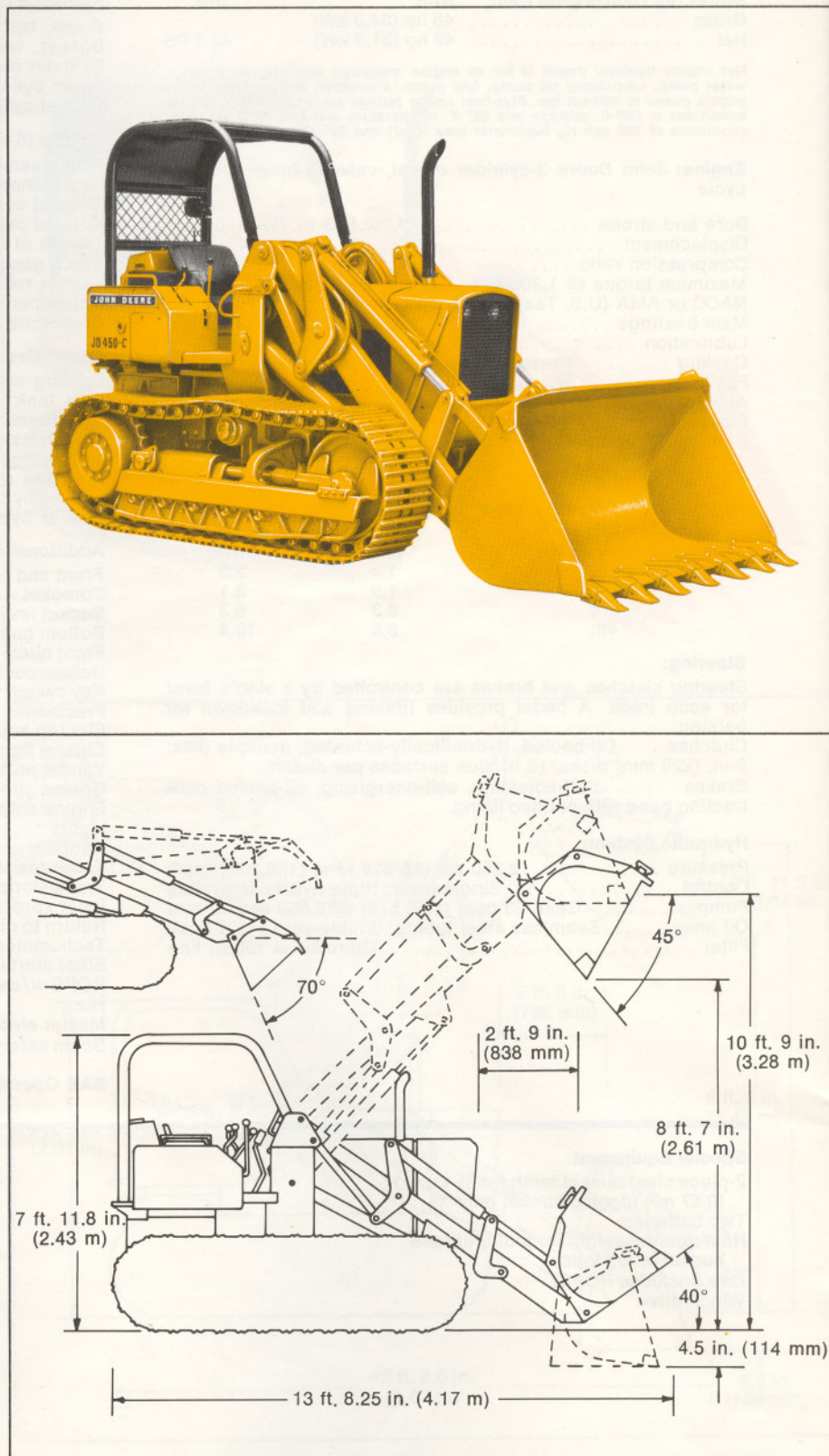


LOADER SPECIFICATIONS

Buckets:	SAE Heaped Capacity	Width
Digging	1 1/4 cu. yd. (0.96 m ³)	72.25 in. (1.84 m)
Light Materials	1 3/4 cu. yd. (1.34 m ³)	78.25 in. (1.99 m)
Multipurpose	1 1/4 cu. yd. (0.96 m ³)	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 1 1/4 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 cm³)
 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/cm²)
 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