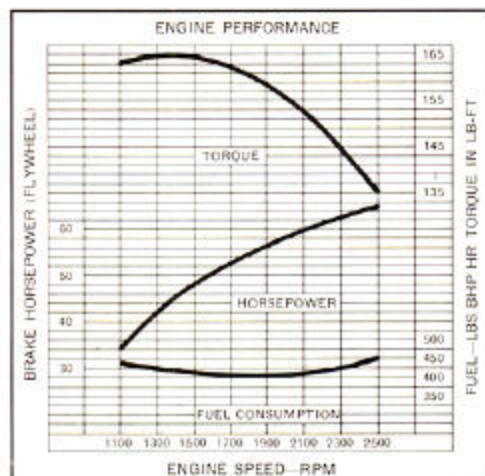




JD450-B CRAWLER



ENGINE PERFORMANCE



CURVES SHOWN ARE FOR AN ENGINE COMPLETE WITH FUEL SYSTEM, WATER PUMP, LUBRICATING PUMP, AIR CLEANER, ALTERNATOR, FAN AND MUFFLER.

DATA SHOWS PERFORMANCE OBSERVED AT CONDITIONS OF 29.38 INCHES OF MERCURY BAROMETRIC PRESSURE (500 FEET) AND 83 FAHRENHEIT AIR TEMPERATURE.

FEATURES

- John Deere four-cylinder Diesel.
- Four-range hydraulic Hi-Lo-Reverse Transmission.
- Power steering.
- 5-roller track frames with rock guards.
- Hydraulic track adjustment.

- May be equipped with:
 - Winch
 - All-hydraulic bulldozer
 - Angle bulldozer
 - Hydraulic tilt bulldozer
 - Backhoe
 - Brush and rock rake
 - Ripper
 - Sideboom

JOHN DEERE & CO. INC.



SPECIFICATIONS—JD450-B CRAWLER

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with IEMC and SAE Standards.)

Horsepower (at 2,500 engine rpm):	SAE	DIN
Gross.....	70	73.2 PS
Net.....	65	68.0 PS
Drawbar.....	45.5	46.1 PS

Net engine flywheel horsepower is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator. The gross engine horsepower does not include these accessories. Gross and net flywheel horsepower ratings are maximum under SAE standard conditions of 500-ft. altitude and 85° F. temperature and DIN 70 020 standard conditions of 760 mm HG barometer (sea level) and 20° C. temperature.

Engine: John Deere, 4-cylinder, valve-in-head, 4-stroke cycle
 Bore and stroke.....4.02 x 4.33 in. (102 x 110 mm)
 Piston displacement.....219 cu. in. (3588 cm³)
 Compression ratio.....16.7 to 1
 Operating speed range.....1,500-2,500 rpm
 Maximum torque @ 1,500 rpm.....164.5 lb. ft. (23.8 kg-m)
 NACC or AMA (U.S. Tax) horsepower.....23.84
 Lubrication.....Pressure system with full-flow filter.
 Main bearings.....5
 Cooling.....Pressurized with thermostat and fixed bypass.
 Blower fan.
 Air cleaner.....Dry type
 Electrical system.....12-volt with alternator.
 Starting.....12-volt electric.

Engine Clutch.....11-inch (279 mm), spring-loaded, dry disk.

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

Travel Speeds and Drawbar Pull (with adequate weight and traction):

Shift Lever Position	Travel Speed at 2,500 rpm		Drawbar Pull			
	mph	km/h	(2,500 rpm) lb.	(2,500 rpm) kg	(1,500 rpm) lb.	(1,500 rpm) kg
Range 1						
Low	1.3	(2.1)	13,300	(6032)	16,000	(7258)
High	1.8	(2.9)	9,500	(4309)	11,400	(5171)
Reverse	1.7	(2.7)				
Range 2						
Low	2.0	(3.2)	8,500	(3855)	10,250	(4649)
High	2.8	(4.5)	5,800	(2630)	7,050	(3197)
Reverse	2.7	(4.3)				
Range 3						
Low	3.0	(4.8)	5,350	(2427)	6,500	(2948)
High	4.3	(6.9)	3,700	(1678)	4,500	(2041)
Reverse	4.1	(6.6)				
Range 4						
Low	4.7	(7.6)	3,300	(1497)	4,000	(1814)
High	6.7	(10.8)	2,250	(1021)	2,700	(1225)
Reverse	6.4	(10.3)				

Standard Equipment:

Deluxe cushion seat with arm rests
 Front/rear bottom guard
 Outer sprocket shields
 Hydraulic track tension adjuster
 16 in. (406 mm) grouser track shoes
 Push-button safety start
 90-amp battery
 Lights: front, rear, and panel
 Triple hydraulic system
 Trash-resistant radiator
 Blower fan
 Radiator sand shield
 Front hitch
 Air cleaner restriction indicator
 Precleaner
 Cigarette lighter
 Electric hourmeter
 Instrument panel cover
 Tool tray

Special Equipment:

Auxiliary hydraulic system with
 breakaway couplings
 Remote hydraulic cylinder
 PTO (1,000 rpm)
 Tachometer
 Swinging drawbar
 Two 90-amp batteries
 Ether starting aid
 Suction fan
 Upper and lower front idler shields
 Canopy and seat belt
 Altitude compensator
 Spark arrestor muffler
 Engine coolant heater
 Calks for triple semi-grousers
 Weather shield

Winch drive
 Winch
 Winch drawbar
 Winch fairlead and drawbar
 Ripper
 All-hydraulic bulldozer, 90-in. (2286 mm)
 Angle bulldozer, 106-in. (2692 mm)
 Tilt bulldozer, 96-in. (2438 mm)
 Dozer depth gauge shoes
 Backhoe
 Brush and rock rake

Steering, hydraulically actuated power...Clutch-brake system.
 Clutches...11 in. (279 mm) multiple disk, 18 friction surfaces per
 clutch.

Brakes.....Contracting band, Bonded lining.

Hydraulic System...Triple-function system with choice of
 crankshaft-driven pumps—15 or 23 gpm (56.8 or 87.1 lpm).

Tracks (5-roller track frame with rock guards):

Grouser.....16 or 18-in. (406 or 457 mm)
 Open-center grouser.....16 or 18-in. (406 or 457 mm)
 Triple semi-grouser.....16 in. (406 mm)
 Track shoes, each side.....36
 Ground contact area, 16-in. shoes.....2,294 sq. in. (14,800 cm²)
 18-in. shoes.....2,585 sq. in. (16,677 cm²)
 Ground pressure, 16-in. shoes.....5.1 psi (0.358 kg/cm²)
 Length of track on ground.....72.75 in. (1848 mm)
 Track gauge.....52 in. (1321 mm)
 Track rollers.....5
 Carrier roller.....1
 Adjustment.....Hydraulic

Capacities:

	U.S.	Liters
Cooling system.....	4 gal.	(15.1)
Fuel tank.....	31 gal.	(117.34)
Crankcase, including filter.....	9 qt.	(8.5)
Transmission.....	8 gal.	(30.2)
Final-drive cases (each).....	6.5 qt.	(5.1)

Dimensions:

Height to top of hood.....57 in. (1448 mm)
 Over-all height with exhaust stack.....89 in. (2261 mm)
 Over-all width.....67.75 in. (1721 mm)
 Over-all length.....109.25 in. (2775 mm)
 Clearance at rear crossbar.....14.25 in. (362 mm)

Weight, Approx.:

Shipping.....11,700 lb. (5307 kg)