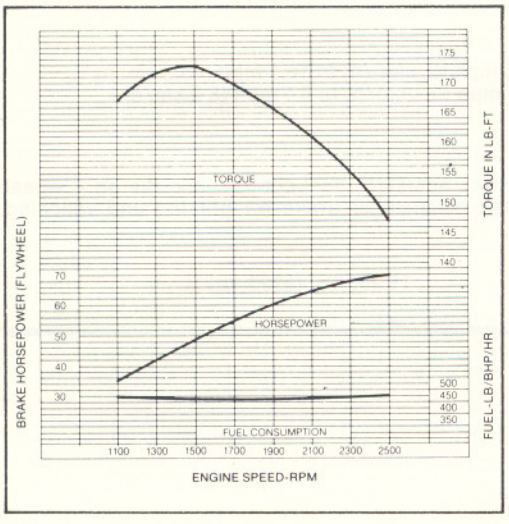
JD440-B TRACTOR



ENGINE PERFORMANCE



*SAE Standard

FEATURES

70 SAE net hp (74,4 PS)

Articulated frame power steering

Oscillating front axle

8-speed transmission, Power Shift or Syncro-Range

Front-axle differential lock

Wet-disk power brakes

Vandal protection

Roll-over protective structure (ROPS) w/canopy, seat belt and brush screens

ADD VERSATILITY WITH:

Drawbar w/clevis

JD440-B TRACTOR SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with IEMC and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with Syncro-Range transmission; 16.9-30, 8-ply-rating, logging tires; and standard equipment).

Horsepower (at 2,500 engine rpm):	**SAE**	**DIN**
Gross	75.5	
Net	70	74,4 PS

*Net engine flywheel horsepower is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. Gross engine horsepower is without fan. Gross and net flywheel horsepower ratings are 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 diesel, 4-cylinder, 4-stroke cycle

Bore and stroke ..... 4.02x4.33 in. (102x110 mm)
Piston displacement ..... 219 cu. in. (3588 cm^3)
Compression ratio ..... 16.7 to 1
Maximum torque @ 1,500 rpm ..... 173 lb-ft (23,8 kg-m)
NACC or AMA (U.S. Tax) horsepower 23.84
Lubrication ..... Pressure system w/full-flow filter
Cooling ..... Pressurized w/thermostat and fixed bypass
Fan ..... Suction
Air cleaner w/restriction indicator ..... Dry
Electrical system ..... 12-volt w/alternator
Batteries (2) ..... Reserve capacity: 220 minutes

Differentials:

Front ..... Full differential w/hydraulic lock
Rear ..... Solid axle w/no differential action

Drive Axles:

Four-wheel drive with inboard planetary gears on all axles. Front axle oscillates 15 degrees above and below horizontal. 18 in. (457 mm) total travel at tire center line.

Power Steering:

Articulated frame hydraulically actuated by dual cylinders.
Turning radius ..... 16 ft. 8 in. (5,08 m)

Hydraulic System:

Closed-center, constant-pressure. Variable-displacement pump driven from crankshaft ....28 gpm (106 lpm), 2,000 psi (140,6 kg/cm^2) @2,500 engine rpm. Oil cooler included in system.

Tires:

16.9-30, 8-ply-rating; 18.4-26, 10-ply-rating, logging

Dimensions:

	WHEEL TREAD		GROUND CLEARANCE		OVERALL WIDTH	
TIRE SIZE	SYNCRO RANGE	POWER SHIFT	SYNCRO RANGE	POWER SHIFT	SYNCRO RANGE	POWER SHIFT
16.9-30	74 in. (1,88 m)	76 in. (1,93 m)	1 ft. 6.6 in. (472 mm)	1 ft. 6.6 in. (472 mm)	7 ft. 7 in. (2,31 m)	7 ft. 9 in. (2,36 m)
18.4-26	73.5 in. (1,87 m)	75.5 in (1,92 m)	1 ft. 6 in. (457 mm)	1 ft. 6 in. (457 mm)	7 ft. 8.4 in. (2,35 m)	7 ft.10.4 in. (2,40 m)

Wheelbase ..... 89 in. (2,26 m)
Height to top of muffler (18.4-26 tires) ..... 7 ft. 10 in. (2,39 m)

Capacities:	**U.S.**	**Liters**
Fuel tank	24 gal.	90,8
Cooling system	4 gal.	15,1
Engine lubrication, including filter	9 qt.	8,5
Transmission-hydraulic system:		
Syncro-Range	8 gal.	30,3
Power Shift	9 gal.	34,1
Front differential	9 gal.	34,1
Rear axle case	18 qt.	17,0

Additional Standard Equipment:

Flanged axles
Vertical muffler w/rain cap
Fuel gauge
Oil-pressure warning light
Alternator-charge warning light
Water-temperature gauge
Front axle differential lock
Transistorized voltage regulator
Electric hourmeter
Key switch safety start
Cigaret lighter
Horn
Lights
Engine side shields
Deluxe seat w/suspension
Foot throttle
Hand throttle
Ether starting aid
Vandal protection
ROPS w/canopy, seat belt, and brush screens

	SYNCRO-RANGE	POWER SHIFT
Transmission	Constant mesh with 8 speeds forward, 4 reverse. Four forward speed ranges with synchronized shifting between low and high within each range. Incorporates transmission lock for parking. Clutch is 12 in. (305 mm), dry feramic-faced, foot-pedal-operated.	Planetary gears. Hydraulically actuated wet-disk clutches and brakes. 8 forward, 4 reverse speeds selected by a single lever. Cold weather disconnect clutch is 12 in. (305 mm), dry, hand-operated.
Travel Speeds (2,500 engine rpm, no tire slip)	Forward: 2 mph (3,2 km/h) to 17 mph (27,4 km/h) Reverse: 2 mph (3,2 km/h) to 8.5 mph (13,7 km/h)	Forward: 1.5 mph (2,5 km/h) to 16.1 mph (25,9 km/h) Reverse: 1.7 mph (2,7 km/h) to 5.1 mph (8,2 km/h)
Brakes	Hydraulic power actuated, wet-disk on output shaft. Hand-operated mechanical brake for parking and winching.	Hydraulic power actuated, dual-controlled disks on 4 wheels. Hand-operated mechanical brake for parking and winching.
SAE Operating Weight	10,450 lb. (4740 kg)	11,900 lb. (5390 kg)

Special Equipment:

Wheel weights
Drawbar w/clevis
Spark-arresting muffler
Shielded muffler
Altitude compensator
Blower fan