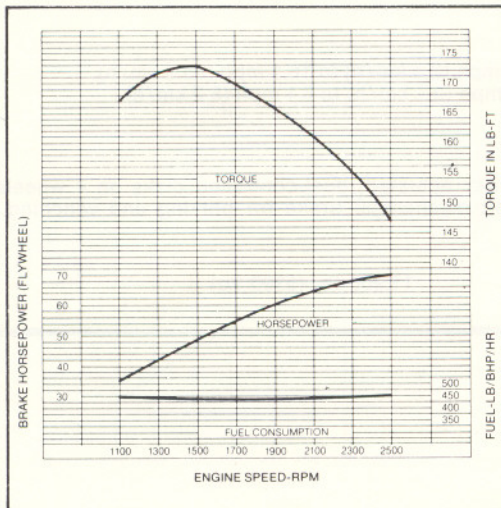




# JD440-B TRACTOR



## 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).



<b>Horsepower (at 2,500 engine rpm):</b>	<b>SAE</b>	<b>DIN</b>
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<sup>3</sup>)  
 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<sup>2</sup>) @ 2,500 engine rpm. Oil cooler included in system.

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

**Dimensions:**

TIRE SIZE	WHEEL TREAD		GROUND CLEARANCE		OVERALL WIDTH	
	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)

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

## SYNCRO-RANGE

### 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