

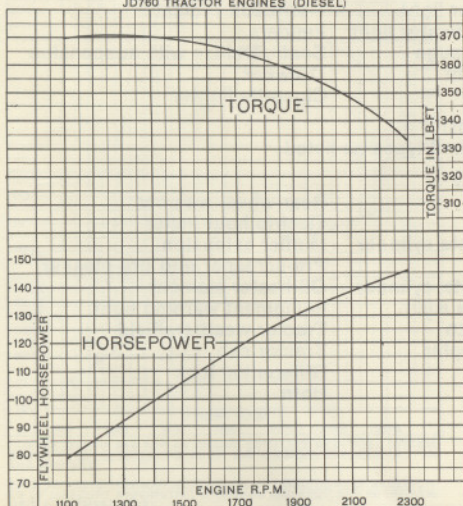


JD760 TRACTOR



ENGINE PERFORMANCE

JD760 TRACTOR ENGINES (DIESEL)



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 29.33 INCHES OF MERCURY BAROMETRIC PRESSURE (500 FEET) AND 85 FAHRENHEIT AIR TEMPERATURE.

FEATURES

Big lugging power for pulling scrapers, compactors, disks, and other drawn or semi-integral equipment. Excellent for roadbuilding, commercial or home-site development, earth-dam construction, land leveling and conservation projects, and many other earthmoving jobs.

143-flywheel horsepower . . . 6-cylinder John Deere Diesel engine.

Develops 17,080 lb. maximum rimpull.

Eight forward speeds from 2.6 to 26 miles per hour. Three reverse speeds. Shift-on-the-go transmission with power-assist clutch and differential lock.

Power steering. Power brakes. Oscillating front axle for stability and operator comfort when operating on rough terrain.

Roomy platform; cushioned, shock-absorbing, fully-adjustable seat; controls and gauges conveniently grouped for easy operation.

SPECIFICATIONS

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

Horsepower (at 2,200 engine rpm):
Net engine flywheel (at 500-ft. altitude and 85-degree F. temp.)... 143

Travel speeds and rimpulls (at 2,200 engine rpm, 28.7 loaded radius):

Shift Lever Position	Travel Speed (MPH) w/ 18.00-25 Tires	Rimpull* (Lb.)
1st	2.6	17,080
2nd	4.1	10,840
3rd	5.4	8,230
4th	6.9	6,430
5th	8.6	5,170
6th	11.3	3,920
7th	14.7	3,020
8th	23.9	1,860
8th-Engine fast idle—2,400 rpm	26.11	
Rev. 1	5.3	
Rev. 2	8.4	
Rev. 3	14.2	

*Rimpull-calculated for each ground speed using 82.8% of net engine flywheel horsepower. Actual pulls will be limited by weight and traction.

Engine: Vertical, 6 cylinder, valve-in-head, 4-stroke cycle, Diesel. Bore and Stroke... 4-3/4 x 5
Piston displacement... 531 cu. in.
Compression ratio... 16 to 1
Governed speed range... 800-2,200 rpm
Maximum torque... 371 lb. ft.
Rpm at maximum torque... 1,300
N.A.C.C. or A.M.A. horsepower rated for tax purpose... 54.2
Lubrication... Full pressure, full flow with bypass relief valve, replaceable micron filter.
Crankshaft... Induction-hardened, counterbalanced.
Main and connecting rod bearings... Steel-backed, copper-lead-tin lined, removable.
Main bearings:
Number... 7
Diameter... 3-3/4 in.
Cooling... Pressurized with water pump, thermostat and fixed bypass.
Governor... Integral with injection pump.
Fuel injection pump... Opposed plunger, inlet metering, single cylinder distributor type.
Air cleaner... Dry type with air restriction indicator.
Electrical system... 24-volt (four 6-volt batteries) with alternator; 12-volt accessories.
Starting... 24-volt electric starter.

Engine Clutch... Foot-operated, power assisted, spring-loaded, two 12-in. dry disks.

Transmission... Manual transmission, constant mesh with Hi-Low synchronizers, 8 forward and 3 reverse selections.

Final Drive: Planetary type.
Gear reduction ratio in first gear... 147.3 to 1
Gear reduction ratio in high gear... 15.7 to 1

Brakes... Foot-operated individually or simultaneously. Hydraulic-power actuated, wet-disk type.

Steering: Power. Entirely hydraulic—actuated by the central hydraulic pump.
Number of turns, far left to far right... 4-2/3

Turning radius (brake applied)... Approx. 150 in.
Vehicle clearance circle:
With brake... Approx. 329 in.
Without brake... Approx. 356 in.

Hydraulic System... A central hydraulic system, constant pressure. Oil supplied from transmission and differential. Variable-displacement pump driven from front of engine; maximum output at 2,200 rpm, 25.7 gpm at 2,000 psi. Provides power for power steering, power brakes, and dual selective control function for remote cylinders.

Power Takeoff... Special equipment. Independent "Live," 1,000 rpm rear PTO, vertical or horizontal; controlled by hydraulically actuated wet clutch.

Tires: (Sizes and plies)
Front: 11.00-16, 12-ply Rib
10.00-15, 12-ply heavy-duty truck
Rear: 18.00-25, 12-ply tubeless, earthmover
23.5-25, 12-ply tubeless, earthmover

Wheel Treads:
Front... 69 in.
Rear... 72 in. (18.00-25 tires)
72-3/16 in. (23.5-25 tires)

Dimensions:
Height to top of hood... 64-5/16 in.
Over-all height... 108-3/8 in.
Over-all width... 95-3/4 in.
Over-all length... 157-1/8 in.
Wheelbase... 95.5 in.
Ground clearance... 13 in.

Weight:
Shipping (11:00-16, 12-ply and 18.00-25, 12-ply tires)... 14,500 lb.
Operating (no ballast)... 14,900 lb.

Capacities: (U.S. Measure)
Cooling system... 36 qt.
Fuel tank... 73 gal.
Engine lubrication, including filter... 20 qt.
Transmission-hydraulic system... 16 gal.

Standard Equipment:

Power steering	Water-temperature gauge
Deluxe seat with suspension	Ammeter
Drawbar	Tachometer
Muffler	Key-ignition switch
Front, rear, and panel lights	Starting-fluid applicator
Fuel gauge	Dry air cleaner with vertical air stack, cap and air restriction indicator
Oil-pressure indicator light	Electric hour meter
Cigarette lighter	
Horn	

Optional Equipment:
Tires: Sizes, plies, and types as listed.

Special Equipment:

Dual remote cylinder control	Pre-cleaner
PTO 1,000 rpm	Oil-heater element
Rear-wheel weights	Pre-screener
Rear counterweights	Differential lock
Muffler heat shield	Windshield