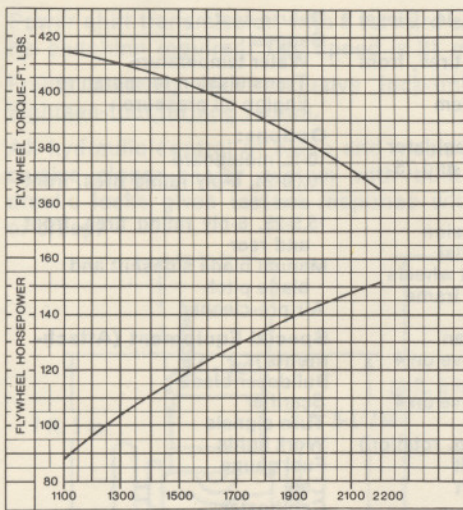




JD760 SERIES-A SCRAPER



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 85 FAHRENHEIT AIR TEMPERATURE.

FEATURES

Designed and built for both primary earthmoving and finishing operations. Excellent for roadbuilding, commercial and homesite development, strip mining, earth-dam construction, land leveling and conservation projects, and many other earthmoving jobs.

9-1/2-cu.-yd. heaped capacity. Self loads in a minute or less under most conditions. No push tractor needed for loading.

Proper-speed elevator pulverizes material for fast, smooth loading and even spreading. Elevator floats to accommodate various loading conditions. Elevator operation can be reversed to help in unloading.

Positive hydraulic load ejection. Sliding floor and ejector gate permit controlled, even spreading or fast dumping.

152-net-flywheel-horsepower . . . 6-cylinder John Deere Diesel engine.

Develops 20,260-lb. maximum rimpull.

Eight forward speeds from 2-1/4 to 26 miles per hour. Three reverse speeds. Power Shift Transmission with 8 speeds forward and 3 in reverse.

Differential lock for steady traction under adverse conditions.

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.

JD760 SERIES-A SCRAPER SPECIFICATIONS



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

CAPACITY, SAE heaped..... 9-1/2 cu. yd. or 23,750 lb.

HORSEPOWER (at 2,200 engine rpm):

Gross engine flywheel..... 159

Net engine flywheel (at 500-ft. altitude and 85° F. temp.)

Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator..... 152

TRAVEL SPEEDS AND RIMPULLS (at 2,200 engine rpm, 28.7-in. loaded radius):

Shift Lever Position	Travel Speed (MPH) w/ 23.5-25 Tires	Rimpull* (Lb.)
1st	2.25	20,260
2nd	3.2	14,200
3rd	5.0	9,110
4th	6.5	7,000
5th	8.5	5,370
6th	11.0	4,130
7th	14.3	3,200
8th	24.1	1,890
8th—Engine fast idle—2,400 rpm	26.3	
Rev. 1	2.7	
Rev. 2	3.9	
Rev. 3	6.2	

*Rimpull—calculated for each ground speed using 80% of net engine flywheel horsepower. Actual pulls will be limited by weight and traction.

ENGINE: Vertical, 6 cylinders, valve-in-head, 4-stroke cycle, Diesel. Bore and stroke..... 4-3/4 x 5 Piston displacement..... 531 cu. in. Compression ratio..... 16.5 to 1 Governed speed range..... 800-2,200 rpm Maximum torque..... 415 lb. ft. Rpm at maximum torque..... 1,100 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 micronic 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... 12-volt (two 6-volt batteries) with alternator; 12-volt accessories

Starting..... 12-volt electric starter

ENGINE CLUTCH..... Foot-operated, spring-loaded, 13-in. dry disk, cold-weather starting only

TRANSMISSION..... Power-Shift, 8 forward and 3 reverse selections.

DIFFERENTIAL LOCK... Foot-operated, hydraulically controlled.

FINAL DRIVE: Planetary type

Gear reduction ratio in first gear..... 166.9 to 1

Gear reduction ratio in high gear..... 15.6 to 1

BRAKES:

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

Scraper... Hand-lever operated or foot treadle hydraulic-actuated shoe type.

STEERING: Power. Entirely hydraulic—actuated by the central hydraulic pump.

Number of turns, far left to far right..... 4-2/3

Vehicle clearance circle, brake applied..... Approx. 27 ft. 11 in.

Curb-to-curb clearance circle, brake applied... Approx. 25 ft. 11 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, 26 gpm at 2,000 psi. Provides power for power steering, power brakes, and triple selective control function for remote cylinders.

POWER TAKEOFF... Independent "Live," 1,000 rpm rear vertical PTO, vertical or horizontal; controlled by hydraulically actuated wet clutch.

CAPACITIES (U.S. Measure):

Cooling system..... 36 qt.

Fuel tank..... 69 gal.

Engine lubrication, including filter..... 20 qt
Transmission—hydraulic system..... 24 gal

TIRES (Sizes and Plies):

Front: 10.00-15, 12-ply, truck tread

11.00-15, 12-ply F3

11.00-15, 12-ply, truck tread

14.00-17.5, 10-ply, truck tread

Rear: 23.50-25, 12-ply tubeless, earthmover

HYDRAULIC CYLINDERS (ground, polished, hard-chromed piston rods; neoprene seals):

Lift cylinder... Two 4-in. dia. bore, 18-inch stroke, 2-in. dia. piston rod.

Sliding floor... One 4-1/2-in. dia. bore, 30-1/4-in. stroke, 2-1/4-in. dia. piston rod.

Ejector gate... Two 2-1/2-in. dia. bore, 33-5/8-in. stroke, 1-1/2-in. dia. piston rod.

CUTTING EDGE... 90 inches wide; 3 sections, reversible and replaceable, high-carbon steel. Each section is adjustable vertically two inches.

Center section..... 5/8-in. x 10-in. x 54-in.
Each end section..... 5/8-in. x 10-in. x 18-in.

EJECTION (Hydraulically controlled):

Sliding floor... Boxed, reinforced; high carbon, heat treated sliding rails.

Ejector..... Bulldozer-type, reinforced steel plate

ELEVATOR... PTO-driven, reversible 203 fpm forward or reverse.

Elevator drive... Powered by 1,000-rpm tractor PTO, through telescoping vertical and horizontal shaft; sealed gear boxes.

WEIGHT DISTRIBUTION, lb.:

23.50-25 Tires

Empty: Front axle..... 6,200

Drive axle..... 15,240

Scraper axle..... 10,810

Total..... 32,250

Loaded: Front axle..... 6,900

Drive axle..... 22,380

Scraper axle..... 26,720

Total..... 56,000

DIMENSIONS:

Bowl Up

Bowl Down

Over-all width..... 95-3/4 in. 95-3/4 in.

Over-all length..... 32 ft. 10-1/2 in. 33 ft. 7-1/2 in.

Scraper (to swivel)..... 21 ft. 8-1/4 in. 22 ft. 3-1/4 in.

Tractor..... 13 ft. 7 in. 13 ft. 7 in.

Over-all height..... 8 ft. 9-1/4 in. 8 ft. 5-1/4 in.

(8 ft. 9-1/4 in. to top of muffler)

Clearance at cutting edge, max. with drop-center..... 17-3/4 in.

Clearance under rear frame..... 13-1/2 in.

Wheelbase (tractor front wheel to

scraper wheel)..... 26 ft. 6.1 in. 27 ft. 3-3/4 in.

Tractor..... 95-1/2 in.

Wheel tread, front..... 69-3/4 in.

Drive wheels..... 72-3/16 in. (23.5-25 tires)

Scraper wheels..... 72-3/16 in. (23.5-25, 12-ply tires)

STANDARD EQUIPMENT:

Power Shift transmission	Tachometer
Power steering	Key-start ignition switch
Deluxe seat with suspension	Starting-fluid applicator
Drawbar	Instrument panel cover
Muffler	Dry air cleaner with vertical air stack and cap and air-restriction indicator
Front, rear, and panel lights	Electric hour meter
Fuel gauge	Front bumper with tow hooks
Oil-pressure indicator light	Transmission filter indicator light
Oil pressure gauge	Transmission temperature gauge
Cigarette lighter	
Horn	
Water-temperature gauge	
Differential lock	
Alternator indicator light	

OPTIONAL EQUIPMENT:

Tires: Sizes, plies, and types as listed.

SPECIAL EQUIPMENT:

Rear-wheel weights	Windshield wiper
Pre-screener	Teeth for cutting edge
Protective roll-frame with canopy or cab (Includes seat belt)	Extended side-cutting edges
Pressurizer for cab	Fenders for scraper wheels
Windshield	Scarifier attachment
	Oil pan guard
	Engine coolant heater