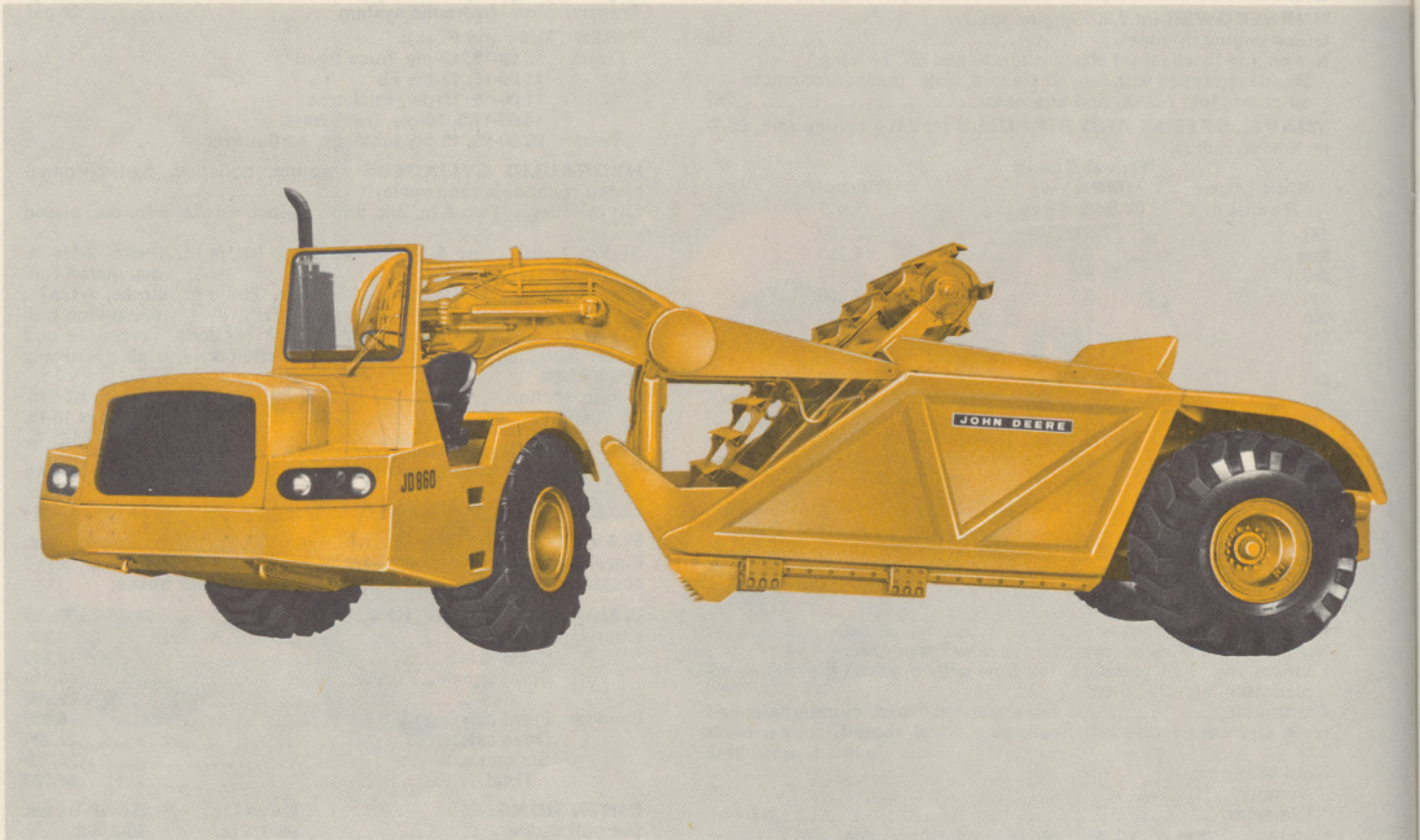




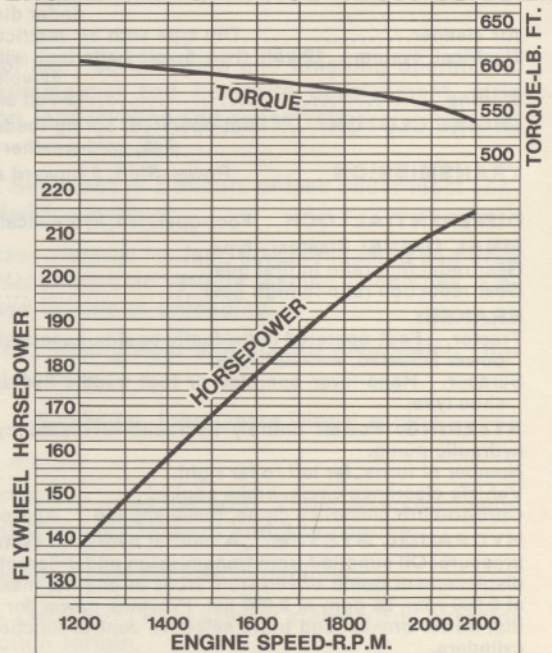
JD860 SCRAPER



FEATURES

- 15-cubic-yard, 37,500-pound capacity.
- 215 net engine flywheel horsepower.
- Power Shift transmission with two-phase, single-stage torque converter provides speeds from 0 to 28 mph.
- Five forward speeds and one reverse.
- Differential lock provides positive traction under adverse conditions.
- Self loads in a minute or less under most conditions. Elevator flights pulverize material for easy spreading, better compaction.
- Elevator reverses to aid when unloading sticky materials.
- Positive hydraulic controls provide for fast dumping and accurate spreading. Sliding floor and bulldozer-type gate eject the entire load.
- Hydraulic control of blade permits accurate cuts.
- Hydraulic power steering with hydraulic follow-up provides easy, smooth steering.
- Roomy operator's compartment is equipped with an upholstered, bucket-type seat which is air-ride controlled and angled 10 degrees for extra operator comfort.
- Convenient, easy-to-operate controls. Easy-view instrument panel.

ENGINE PERFORMANCE-JD860 SCRAPER



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 500-FOOT ALTITUDE AND 85 FAHRENHEIT AIR TEMPERATURE.

JD860 SCRAPER SPECIFICATIONS

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



CAPACITY, SAE heaped.....15 cu. yd. or 37,500 lb.

HORSEPOWER* (at 2,100 engine rpm):

Gross engine flywheel.....228

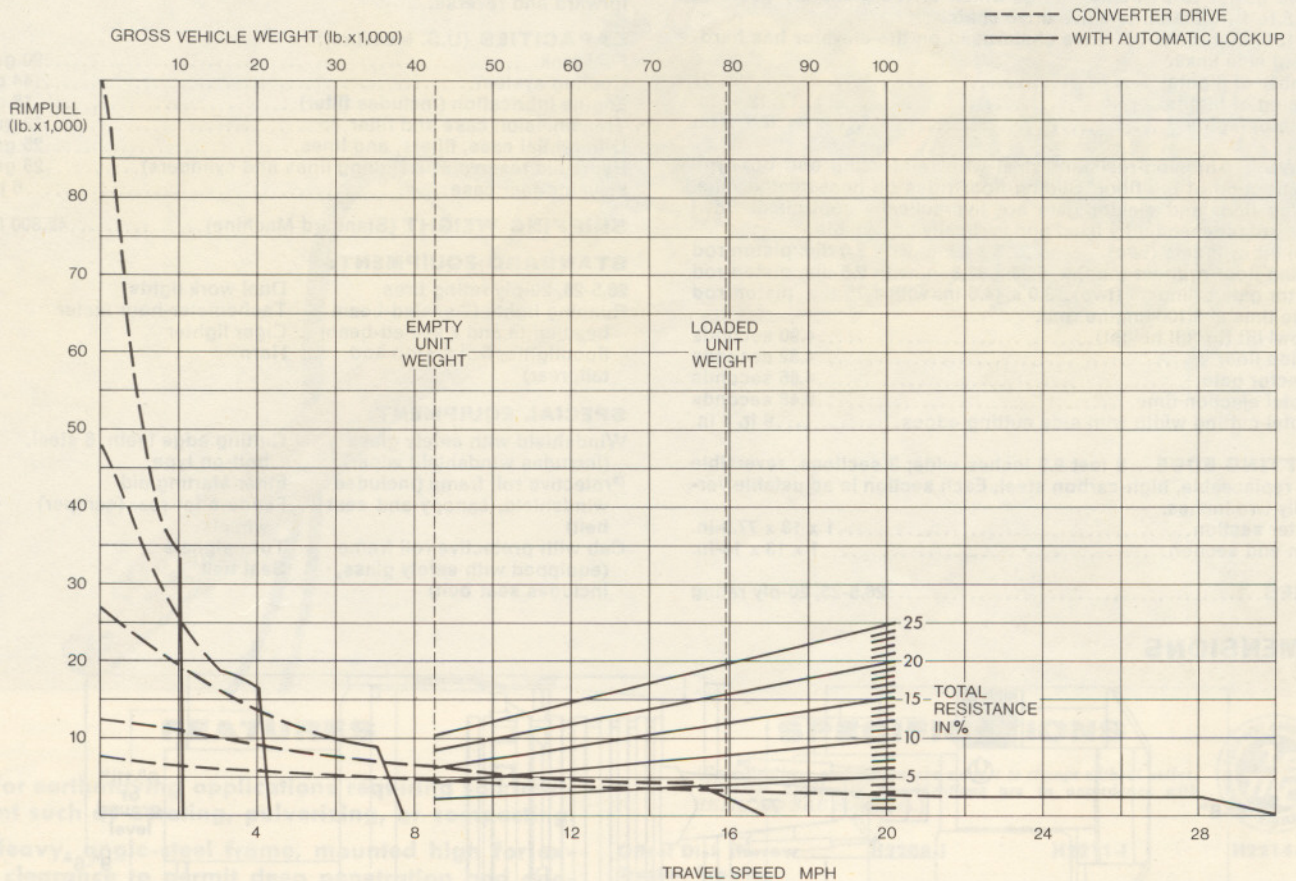
Net engine flywheel. Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator.....215

*Maximum under SAE standard conditions of 500 ft. altitude and 85° F. temperature.

TRAVEL SPEEDS (without tire slip, with effective tire radius and with 0 to 2,100 torque converter output shaft rpm and with 26.5-25 tires):

1st	2nd	3rd	4th	5th	Reverse
1.9	3.9	7.1	15.5	27.9	7.1

VEHICLE PERFORMANCE



GRADABILITY—RIMPULL

To calculate gradability performance: Read down from gross weight to the percent of total resistance. (Total resistance equals actual percent of grade plus one percent for each 20 lb./ton of rolling resistance.) From this weight-resistance point, read straight across to the curve with the highest obtainable speed range, then down to maximum speed. Usable rimpull is affected by traction available and drive wheels.

ENGINE: 6 cylinder, 2-stroke cycle, Detroit Diesel 6-71N

Piston displacement.....426 cu. in.

Governed speed range.....800 to 2,100 rpm

Maximum torque.....600 ft. lb

Air cleaner...Dry-type, dual element with safety element and air restriction indicator

Starting.....24-volt electric starter

TORQUE CONVERTER... Two-phase single stage torque converter with free-wheeling stator and lockup clutch, Twin Disc Model 8-FLW-1450; stall ratio is 2.56 to 1; oil cooler limits converter oil temperature.

TRANSMISSION... Full power shift, 5 speeds forward and one reverse. Constant-mesh gears with duplex clutches. Transmission oil is cooled by cooler located under engine coolant radiator. Twin Disc Model TD-51-1109.

DRIVE AXLE... Differential drive; over-all ratio 22.22 to 1; axles with planetary final drives.

DIFFERENTIAL LOCK.....Foot operated. Hydraulically controlled.

STEERING... Full hydraulic power steering; articulated steering by 2 double-acting 4 x 25.6-inch cylinders with 2-inch diameter rods. Position responsive action controlled by 2 follow-up cylinders. Pump: output rated 34 gpm at 2,050 pump rpm, 2,000 psi. Built-in brakes cushion steering at end of turn.

Minimum turning circle (non-stop turn).....31 ft. 10-1/2 in.

Articulation (stop to stop).....180 deg.

TRACTOR OSCILLATION.....total 50 deg.

JD860 SCRAPER SPECIFICATIONS

BRAKES... Power hydraulic with individual control of tractor or scraper plus control of tractor and scraper brakes in combination. Two accumulators provide several brake applications after engine is stopped. Pump 4.5 gpm at 2,050 pump rpm at 2,000 psi. This pump also supplies oil for operating the differential lock and lubrication for differential gears.

Tractor... Wet disk type between differential and planetaries. No adjust needed.

Scraper... Expanding shoe, automotive type at scraper wheels. Parking... Manually controlled mechanical on axle input shaft.

ELEVATOR... Driven by hydraulic motor at 200 feet per minute at 2,100 engine rpm; elevator also reverses at 200 fpm.

Power supply... Constant-running pump, 85 gpm at 2,050 pump rpm and 2,250 psi, mounted on the torque converter. Pump transmits power to hydraulic motor which drives planetary gears at 59.8 to 1 reduction to a live drive shaft.

No. 1570 high-strength drive chain used on the elevator has hardened side links.

Number of flights.....21
 Spacing of flights.....12.44 in.
 Width of flights.....6 ft. 6 in.

BOWL... Abrasion-resistant steel with reinforcing and box-type construction of the floor. Sliding floor rides on heat-treated rails. Sliding floor and ejector gate are hydraulically controlled. Bowl axles are independently fixed and vertically adjustable.

Bowl lift cylinders (two).....5 x 20 in. with 2.0 dia. piston rod
 Sliding floor cylinder (one).....5.25 x 38.8 in. with 2.5 dia. piston rod
 Ejector gate cylinders (two).....3.0 x 44.5 in. with 1.75 dia. piston rod
 Cycle time at 2,100 engine rpm:

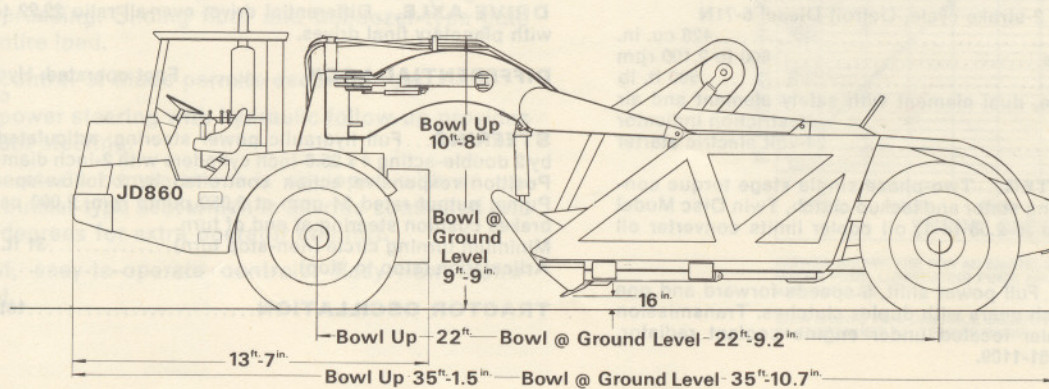
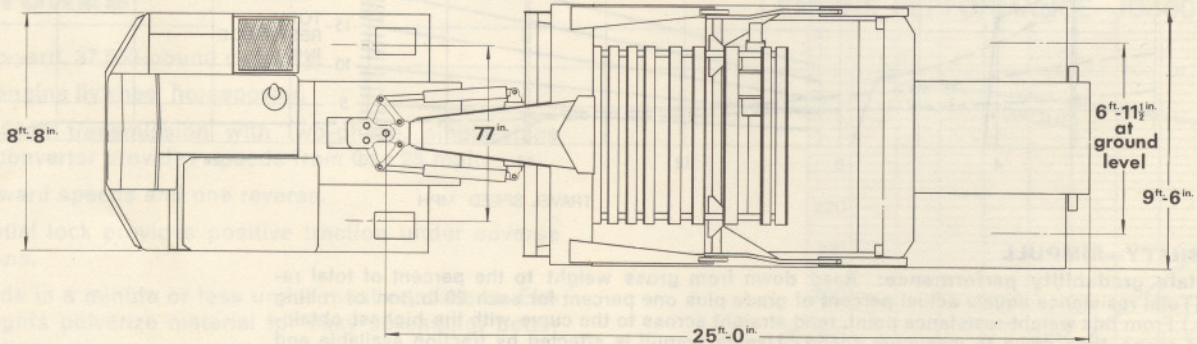
Bowl lift (to full height).....4.90 seconds
 Slide floor.....4.82 seconds
 Ejector gate.....4.66 seconds
 Total ejection time.....9.48 seconds
 Total cutting width with side cutting edges.....9 ft. 5 in.

CUTTING EDGE... 8 feet 9.9 inches wide; 3 sections, reversible and replaceable, high-carbon steel. Each section is adjustable vertically two inches.

Center section.....1 x 13 x 77.9-in.
 Each end section.....1 x 13 x 14-in.

TIRES.....26.5-25, 20-ply rating

DIMENSIONS



WEIGHT DISTRIBUTION:

Empty:	
Tractor.....	27,720 lb.
Scraper.....	14,580 lb.
Total.....	42,300 lb.
Loaded (based on 37,500 lb. load):	
Tractor.....	39,640 lb.
Scraper.....	40,160 lb.
Total.....	79,800 lb.

SEAT... Foam rubber padded, bucket-type, with air-cushion ride. Adjustable fore-and-aft and vertically.

CONTROLS... Single range selector lever for power shift. One lever for lowering bowl, controlling depth of cut, and bowl lift. One lever for ejection of load. One lever for elevator operation forward and reverse.

CAPACITIES (U.S. Measure):

Fuel tank.....	90 gal.
Cooling system.....	.44 qt.
Engine lubrication (includes filter).....	.18 qt.
Transmission case and filter.....	12 gal.
Differential case, filters, and lines.....	25 gal.
Hydraulic reservoir (excluding lines and cylinders).....	25 gal.
Elevator gear case.....	.6 pt.

SHIPPING WEIGHT (Standard Machine).....42,300 lb.

STANDARD EQUIPMENT:

- | | |
|---|-----------------------|
| 26.5-25, 20-ply rating tires | Dual work lights |
| Running lights (2 sealed-beam headlights and 2 sealed-beam floodlights, front; stop and tail, rear) | Tachometer-hour meter |
| | Cigar lighter |
| | Horn |

SPECIAL EQUIPMENT:

- | | |
|---|---|
| Windshield with safety glass (includes windshield wiper) | Cutting edge teeth, 6 steel, bolt-on type |
| Protective roll frame (includes windshield, canopy and seat belt) | Ether starting aid |
| Cab with protective roll frame (equipped with safety glass, includes seat belt) | Fenders for rear (scraper) wheels |
| | Turn signals |
| | Seat belt |