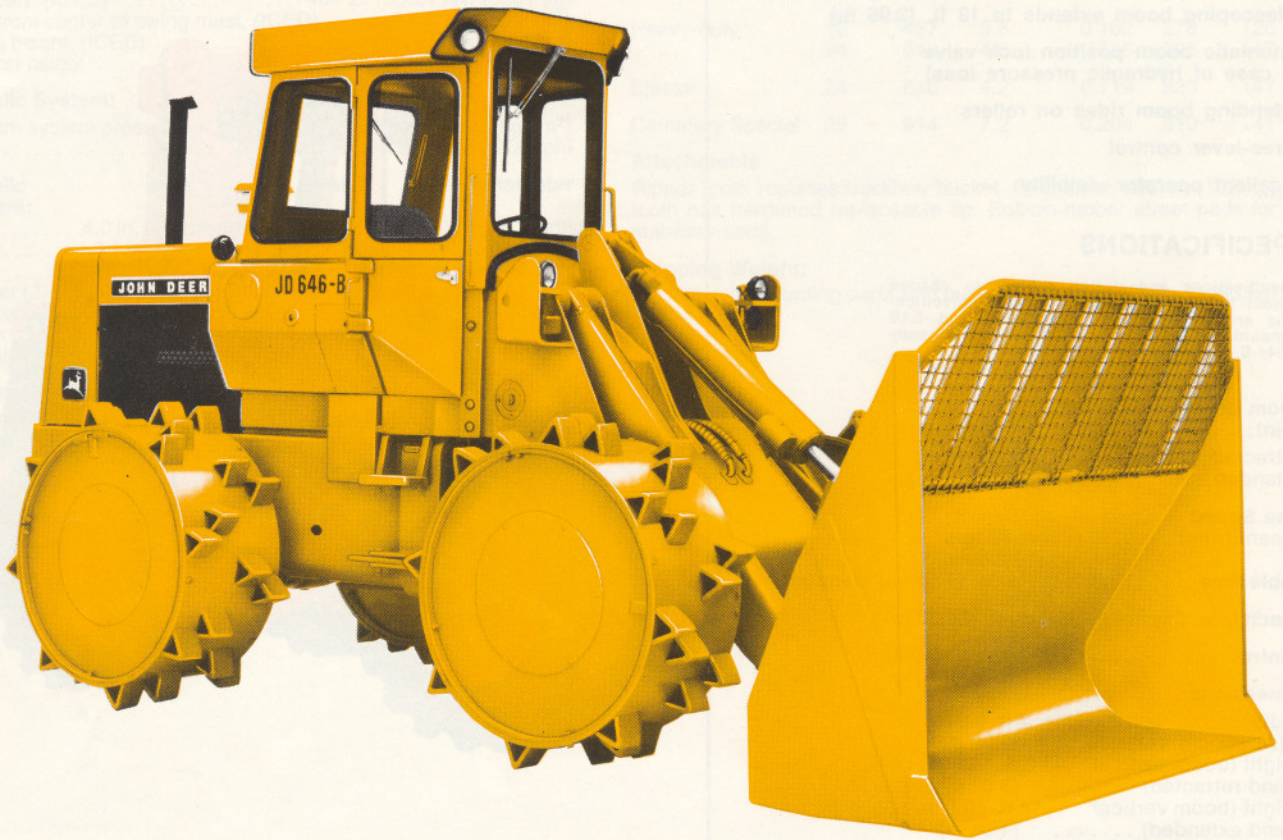
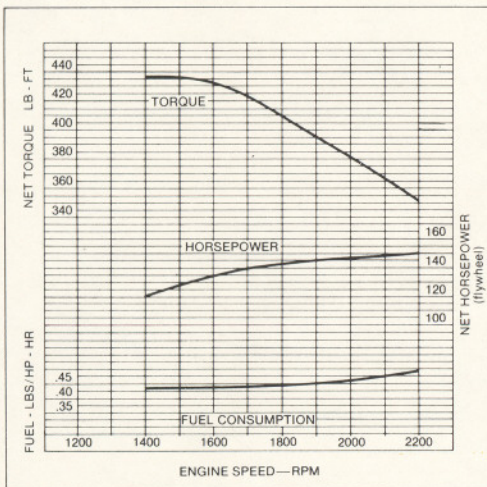




JD646-B COMPACTOR



ENGINE PERFORMANCE



FEATURES

- 145 SAE net hp (147.5 PS)
- 4-wheel drive
- Choice of 3 landfill buckets
- Torque converter w/Power Shift transmission
- Power steering, articulated frame
- 4-wheel, wet-disk brakes and parking brake
- Inboard planetary final drives
- Automatic return to dig
- No-Spin front axle differential
- Vandal protection
- Roll-over protective structure (ROPS) w/cab and tinted safety glass

- Protective guards:
- Rear bottom
 - Hydraulic lines
 - Engine
 - Transmission
 - Articulation
 - Radiator
 - Front drive line
 - Front work lights

JD646-B COMPACTOR SPECIFICATIONS

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with refuse bucket, standard equipment, full fuel tank, and 175-lb. (79 kg) operator.)

Power (@ 2,200 engine rpm): SAE
 Gross 160 hp (119.5 kW*)
 Net 145 hp (108 kW) 147.5 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator, and muffler. The gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85° temperature, and DIN 70 020 conditions (non-corrected). No derating is required up to 10,000 ft. (3000 m) altitude.

*In the International System of Units (SI), power is expressed in kilowatts (kW).

Engine: John Deere turbocharged diesel, vertical 6-cylinder, valve-in-head, 4-stroke cycle.

Bore and stroke 4.75x5 in. (120.5x127 mm)
 Piston displacement 531 cu. in. (8702 cm³)
 Compression ratio 15.8 to 1
 Maximum torque @ 1,500 rpm .. 432 lb-ft (586 Nm) (59.7 kg-m)
 NACC or AMA (U.S. Tax) horsepower 54.0
 Lubrication Pressure system w/full-flow filter
 Cooling Pressurized w/thermostat and controlled bypass
 Fan Suction
 Air cleaner w/restriction indicator Dry
 Electrical system 12-volt w/alternator
 Batteries (two 12 volt) Reserve capacity: 310 minutes each

Torque Converter:

Type Twin-turbine
 Torque multiplication 3.34 to 1

Transmission Power Shift planetary

Differentials:

Front No-Spin
 Rear Standard

Drive Axles:

Inboard-mounted planetary gears to each wheel. Front axle fixed. Rear axle oscillates 22-degree total. 15.8 inches (401 mm) vertical travel at center of tire.

Recommended Travel Speeds:

Forward and reverse 4.5 mph (7.2 km/h) maximum

Brakes:

Service .. Power actuated, 4-wheel, inboard-mounted wet disk. Foot-operated by either right or left pedal.
 Parking 10x1.5-in. (254x38 mm) expanding shoe on transmission output shaft. Adjustable, hand operated with warning light on dash.

Steering:

Full power steering. Frame articulated 80 degrees by two hydraulic cylinders. Turning radius of 15 ft. 6.7 in. (4.74 m). Turning clearance is 36 ft. 10.8 in. (11.25 m).

Hydraulic Systems:

Loader functions Independent engine-driven vane pump delivers 44.5 gpm (168.4 l/min) at 600 psi (41.4 bar) (42.2 kg/cm²) and 2,200 engine rpm.
 2,250 psi (155.1 bar) (158.2 kg/cm²) relief-valve pressure setting.

Control Two-lever triple hydraulic valve for use with refuse bucket or special multipurpose bucket.
 Steering and brakes Engine-driven, 8-piston, variable-displacement pump delivers 26.0 gpm (98.4 l/min) at 2200 engine rpm and 2000 psi (137.9 bar) (140.6 kg/cm²). Maximum system pressure is 2400 psi (165.5 bar) (168.7 kg/cm²).

Landfill Buckets

	Capacity	Width
RefuseDirt:	2¾ cu. yd. (2.10 m ³)	110.77 in. (2.81 m)
.....Refuse:	4½ cu. yd. (3.44 m ³)	
Light materials	4½ cu. yd. (3.44 m ³)	110.77 in. (2.81 m)
MultipurposeDirt:	2½ cu. yd. (1.91 m ³)	104.75 in. (2.66 m)
.....Refuse:	4½ cu. yd. (3.44 m ³)	

Compactor Wheels:

Width 23 in. (584 mm)
 Diameter 55 in. (1397 mm)
 60° cleats, 32/wheel 5 in. (127 mm)
 Encased General tires 13-24, 12 PR, L-G
 Compaction Up to 3,223 psi (222.2 bar) (226.6 kg/cm²)

Wheel Treads and Width:

Front and rear (center-to-center) 81.5 in. (2.07 m)
 Width outside wheels 104.5 in. (2.65 m)

Capacities

	U.S.	Liters
Cooling system	49 qt.	46.4
Fuel tank	56 gal.	211.9
Crankcase	20 qt.	18.9
Crankcase, including filter	22 qt.	20.8
Transmission case and filters	39 qt.	36.9
Front differential: No Spin	24 qt.	22.7
Rear differential	25 qt.	23.7
Loader hydraulic sump	70 qt.	66.2

Additional Standard Equipment:

Adjustable cushioned seat
 Engine side shields
 Key switch
 Push-button safety start
 Cigaret lighter
 Vandal protection
 Horn
 Fixed drawbar
 Vertical exhaust w/rain cap
 Hand grips
 Electric hourmeter
 Ether starting aid
 Heater for cab
 Defroster fan
 Fire extinguisher
 Radiator guard and screen
 Lights
 Parking brake warning light and buzzer
 ROPS cab
 Front and rear windshield wipers
 Precleaner

SAE Operating Weight:

	lb.	kg
With refuse bucket	31,450	14 266
With multipurpose bucket	32,230	14 620

Special Equipment:

Refuse bucket
 Multipurpose landfill bucket
 Light-materials bucket
 Reverse warning alarm
 3-inch seat belt
 Multipurpose bucket teeth

JD646-B COMPACTOR DIMENSIONS

