

JD544 LOADER



FEATURES

Four-wheel-drive for fast cycles, high production. 1-1/2-, 1-3/4-, 3-yd. buckets and 1-1/2-yd. 4-in-1. John Deere 6-cylinder Diesel engine develops 94 net horsepower at the flywheel.

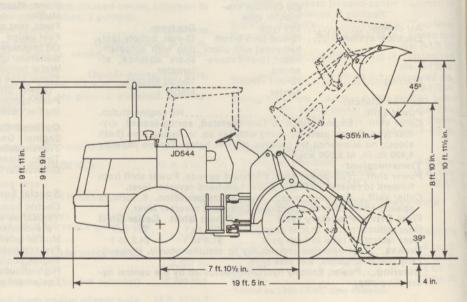
Twin-turbine, torque converter with two-range Power-Shift transmission provides 4 speeds forward to 23 mph and 2 reverse speeds to 9 mph without clutching.

13-ft. 10-in. turning radius with articulated power steering. Four-wheel disk-type power brakes. Parking brake. Four-wheel planetary final drives. One lever controls bucket cutting depth, rollback, lift, dump, shakeout, float, and automatic return to dig. 9,000-lb. lifting capacity at full height. 8-ft. 10-in. clearance and 35-1/2-in. reach at full height with bucket dumped at 45 degrees.

Transmission disconnect is brake actuated; directs all available engine power to hydraulics. Oscillating rear axle with differential. Optional No-Spin differential for front axle.

One-spot engine servicing. Vandal-protection for engine, batteries, tools, fuel tank, instruments, hydraulics.

Low-profile loader provides excellent visibility.



JD544 LOADER SPECIFICATIONS

732B 1 732C 14,975



(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with IEMC and SAE Standards. Specifications are based on a job-ready machine equipped with 1-1/2-cu.-yd.-bucket, 17.5-25, 12-ply, loader-tread tires with 1,160 lb. of CaCl2 solution in rear tires.)

Horsepower* (at 2,500 engine rpm): Gross engine flywheel	Diesel 104
nator	94
*Maximum under SAE standard conditions of 500 ft. altitue 85° F. temperature.	ude and
Operating Information: Tipping load, straight (SAE). 1 Tipping load, full turn (40 deg.). 1 Breakout force, pivot point 19-1/4 inches from cutting edge (SAE). 2 Lifting capacity, full height. 2 Raising time to full height. 2 Lowering time (power). 2 Dumping time.	1,250 lb. 25,000 lb. 9,000 lb. 5.5 sec. 4.5 sec.
Travel Speeds:	112 0001
Forward:	
1. Low range, first and second turbines, 0 to 2.8 mph. 3. High range, first and turbines, 0 to 10.7 mp	
2. Low range, second turbine, 4. High range, second 10.7 to 23.0 mph.	turbine
Reverse:	
1. Low range, first and second turbines, 0 to 3.8 mph. 2. Low range, second 3.8 to 9.0 mph.	turbine,
Shifting from first and second turbines to second turbine matic.	is auto-
Engine: John Deere, vertical 6-cylinder, valve-in-head, cycle	4-stroke
Bore and stroke	Diesel
Piston displacement	3 cu. in.
Compression ratio	16.3 to 1
Operating speed range	
Rpm at maximum torque N.A.C.C. or A.M.A. horsepower rated for tax purpose	1,400
N.A.C.C. or A.M.A. horsepower rated for tax purpose Lubrication	35.8
CrankshaftInduction-hardened, counterb	alanced
Main and connecting-rod bearingsSteel-backed, alu lined, rei	
Main bearings: Number	7
Diameter	3-1/8 in.
Length (total)	8.138 in.
GovernorIntegral with injection	n pump
Governor	; single
cylinder distribution in cleanerDry type, dual element with restriction in	
Electrical system12-volt with al	ternator
Starting12-volt electric TransmissionTwin-turbine torque converter with a tw	o-range
(4 speeds forward, 2 reverse speeds) Power-Shift transmi	
Torque multiplication ratio	.5.1 to 1

Drive axles... Four-wheel drive with inboard-mounted planetary gears to each wheel. Front axle fixed. Rear axle oscillates 22-degree total (14-1/2 inches vertical travel at center of tire).

Front......Standard or optional "No-Spin" type

Rear.....Standard

Brakes:

Differentials:

Service...Power actuated, 4-wheel, inboard-mounted wet disk. Foot-operated by either right or left pedal.

Parking...10x1-1/2-inch expanding shoe type on transmission output shaft. Hand operated with warning light on dash.

Steering... Full power steering. Articulated frame steering by two hydraulic cylinders. Articulation is 80 degrees. Turning radius of 13 feet 10 inches. Curb clearance circle is 31 feet.

Hydraulic systems:

Loader functions system...Live transmission-driven, vane-type pump delivers 45.5 gpm at 2,500 rpm. Constant-volume system.

Steering and brake systems...Includes power steering, power brakes and transmission cooling. Engine-driven, eight-piston, power-on-demand-type pump delivers 28 gpm at 2,500 rpm. Constant-pressure system.

Tires (Sizes and plies): 13-24, 10-ply, grader tread 14-24, 12-ply, grader tread 14-24, 12-ply, rock grader tread 15.5-25, 10-ply loader tread 17.5-25, 12-ply, loader tread

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Wheel TreadsFront and rear		70 in.
Dimensions (with 17.5-25 tires): Height to top of canopy. Over-all height to top of muffler. Over-all width (17.5-25 tires). Over-all length. Wheelbase. Ground clearance.	7 ft. 1	8 ft. 2 in. 7 ft. 4 in. 19 ft. 10-1/2 in.
Buckets: 1-1/2-cu. yd. 1-3/4-cu. yd. 3-cu. yd. Drott 1-1/2-yd. 4-in-1	Weight: 1,200 lb. 1,320 lb. 1,890 lb. 2,050 lb.	Width: 88 in. 92 in. 96 in. 97 in.
Weight Operating (without canopy, approx.)	1	Diesel 8,500 lb.
Capacities (U.S. Measure): Cooling system		40 gal. 10 qt.)-3/4 gal.
Regular		I-1/4 gal. I-3/4 gal.

Base Equipment: Transmission oil temperature

gauge Transmission oil pressure gauge Fuel gauge Electric hour meter Ammeter Coolant temperature gauge Engine oil temperature gauge Key-ignition switch with safety Cigarette lighter Parking brake warning light Lights Instrument panel cover with lock 12-volt starter and electrical system

Special Equipment:
"No-Spin" differential for
front axle
Protective roll-frame with

canopy (includes seat belt)
Cab (fits roll frame)
Front and rear work lights
Flashing and turn signal lights
Triple-spool valve
Bucket teeth

55 amp. alternator Transistorized voltage regulator Two 95 amp. batteries Power steering Fuel filter Two stage dry-type air cleaner with safety element and restriction indicator Foot throttle Adjustable cushioned seat Engine side shields Front fenders Vertical muffler Front and rear hand grips Tool tote-tray Antifreeze Automotive-type horn

Ether starting aid (Diesel)
Heater
Engine oil heater, 240 watt
Engine coolant heater
Pre-cleaner
Special tools
Fixed drawbar, clevis type
Side counterweights
Splash guards for fenders