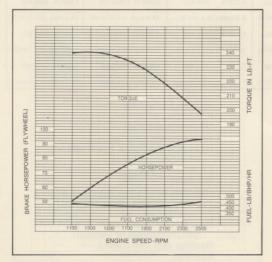


JD544-A LOADER



ENGINE PERFORMANCE



FEATURES

4-wheel drive

Choice of 5 self-leveling loader buckets

Twin-turbine torque converter w/ Power-Shift transmission 4 speeds forward, 2 reverse

Power steering, articulated frame

4-wheel, disk-type brakes and parking brake

Inboard planetary final drives

Single-lever control w/automatic return-to-dig

Brake-actuated transmission disconnect

"No-Spin" front axle differential

Vandal protection

May be equipped with: Backhoe Sideboom

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 standard conditions of 29.38 in. of mercury barometric pressure (500 ft.) and 85°F. air temperature.

SPECIFICATIONS—JD544-A LOADER

70 in (1 79 m)

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with	IEMC and SAE Standards, Ex
cept where otherwise noted, these specifications are based on a unit equipped with 17.5-25, 12-ply-rating, loader tread tires;	1-3/4 cu. vd. (1.34 m3) bucket
standard equipment, and 1,142 lb. (518 kg) of CaCl ₂ solution in rear tires.)	

Horsepower (at 2,500 engine rpm):	SAE	DIN
Gross		
Net	94	99,9 PS

Net engine flywheel horsepower is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator and muffler. The gross engine horsepower is without fan. Gross and net flywheel horsepower ratings are under SAE standard conditions of 500-ft. altitude and 85°F. temperature and DIN 70 020 standard conditions of 760 mm Hg barometer (sea level) and 20°C. temperature.

Engine: John Deere Diesel, vertical 6-cylinder, 4-stroke cycle
Bore and stroke
Piston displacement
Compression ratio 16.7 to 1
Governed speed range
Maximum torque @ 1,300 rpm 240 lb-ft (33,18 kg-m)
N.A.C.C. or A.M.A. (U.S. Tax) horsepower
Lubrication Pressure system with full-flow filter
Cooling Pressurized with thermostat and fixed by-pass
Fan Blower-type
Air Cleaner Dry-type, dual-element with restriction indicator
Electrical and starting system 12-volt with alternator

Transmission:

Twin-turbine torque converter with Power-Shift transmission (4 speeds forward, 2 reverse)

Torque Multiplication	Ratio																				5.	1	to	1	
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Differentials:

Front																								
Rear	• •	 •	•	 •	•			• •	 •	•	•	•	• •		•	•	•	•	• •	•	•	Stand	ard	

Drive Axles:

Inboard-mounted planetary gears to each wheel. Front axle fixed. Rear axle oscillates 22 degrees total. 13.5 in. (343 mm) vertical travel at center of tire.

Travel Speeds		mph	km/h
Forward:			
Low range:	1st and 2nd turbine	0-3	0-4.8
	2nd turbine	3-6.8	4.8-10.9
High range:	1st and 2nd turbine	0-11.2	0-18
	2nd turbine	11.2-23	18-37
Reverse: 1st a	and 2nd turbine	0-4	0-6,4
2nd	turbine	4-9.2	6,4-14,8
Shifting of turk	pines, within ranges is automatic		

Brakes:

Service...Power actuated, 4-wheel, inboard-mounted wet disk. Foot-operated by either right or left pedal. Parking...10 x 1.5-in. (254 x 38 mm) expanding shoe type 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 13 ft. 10 in. (4,22 m). Vehicle clearance circle is 32 ft. (9,75 m).

Hydraulic Systems:

Tires:

13-24, 10-ply-rating, grader tread 14-24, 12-ply-rating, grader tread 14-24, 12-ply-rating, rock grader tread 15.5-25, 10-ply-rating, loader tread 17.5-25, 12-ply-rating, loader tread 17.5-25, 12-ply-rating, loader rock tread

Wheel Treads: Front and roar (contor to contor)

Front and real (center-to-center)	. //	,70 (11)
Capacities:	U.S.	Liters
Cooling system	7.5 gal.	28,4
Fuel tank	40 gal.	151,4
Crankcase and filter	10 qt.	9,5
Transmission case and filters	9.75 gal.	36,9
Front differential		16,1
Rear differential		18,0
Loader hydraulic sump	12 gal.	45.4

Standard Equipment:

Adjustable cushioned seat Engine side shields Front fenders Gauges: Transmission oil temperature Transmission oil pressure Fuel Coolant temperature Engine oil pressure Ammeter Key-switch safety start Cigar lighter Parking brake warning light 55-amp. alternator Two 95-amp. batteries

Transistorized voltage regulator Vandal protection Fuel filter Vertical muffler w/rain cap Head- and tail-lights Horn Rear bottom guard Hand grips Electric hour meter Automatic return-to-dig Side counterweights (1 set) Ether starting aid Cab (includes roll-over protective structure and seat belt)

Special Equipment:

Rear axle disconnect Work lights (front and rear) Lights (flashing and turning) Reverse warning system Triple hydraulic system Bucket teeth Heater Engine coolant heater Pre-cleaner Fixed drawbar Side counterweights (2nd set) Splash guards for fenders Backhoe Sideboom Front bottom guard Canopy (includes roll-over protective structure and seat belt) Log and Lumber fork Log and Pulpwood fork Altitude compensator

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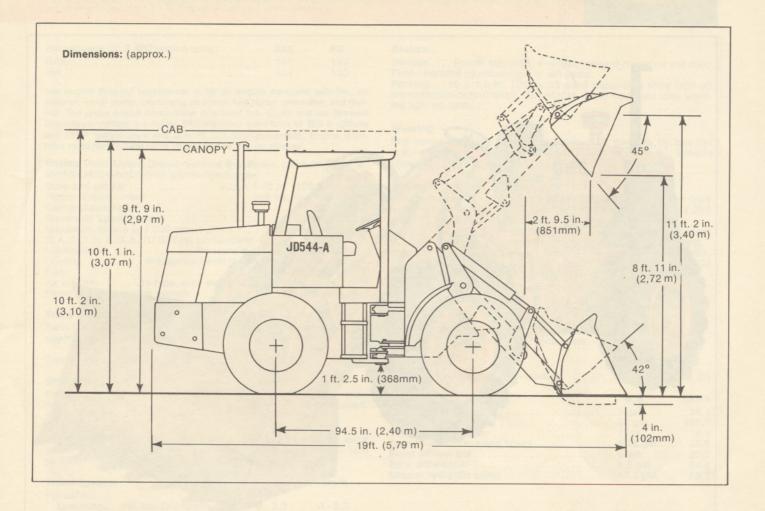
Operating Information: (approx.)

OPERATING	BUCKET												
INFORMATION	General purpose	General purpose	Loose materials	Light materials	Multi-purpose								
Capacity, heaped, SAE	1-1/2 cu. yd.	1-3/4 cu. yd.	2 cu. yd.	3 cu. yd.	1-1/2 cu. yd.								
	(1,15 m³)	(1,34 m³)	(1,53 m ³)	(2,29 m³)	(1,15 m ³)								
Capacity, struck, SAE	1.22 cu. yd.	1.42 cu. yd.	1.64 cu. yd.	2.49 cu. yd.	1.15 cu. yd.								
	(0,93 m ³)	(1,09 m³)	(1,25 m³)	(1,90 m³)	(0,88 m³)								
Bucket width	87.84 in.	92.11 in.	95.81 in.	95.81 in.	96 in.								
	(2,23 m)	(2,33 m)	(2,43 m)	(2,43 m)	(2,44 m)								
Bucket weight	1,275 lb.	1,440 lb.	1,530 lb.	1,860 lb.	2,145 lb.								
	(578 kg)	(653 kg)	(694 kg)	(844 kg)	(975 kg)								
Breakout force, J732B SAE Standard	30,075 lb.	26,960 lb.	25,475 lb.	18,050 lb.	25,000 lb.								
	(13642 kg)	(12229 kg)	(11555 kg)	(8188 kg)	(11340 kg)								
Pivot point to cutting edge	1 ft. 7 in.	1 ft. 9.07 in.	1 ft. 10.33 in.	2 ft. 7.25 in.	1 ft. 10.4 in.								
	(481 mm)	(534 mm)	(567 mm)	(794 mm)	(569 mm)								
Breakout force, J732C SAE Standard using bucket hinge pin as pivot point 4 in. (102 mm) behind cutting edge	16,105 lb. (7305 kg)	14,875 lb. (6747 kg)	14,260 lb. (6468 kg)	10,650 lb. (4831 kg)	15,850 lb. (7190 kg)								
Tipping load, straight	13,245 lb.	13,045 lb.	12,985 lb.	12,405 lb.	11,980 lb.								
	(6007 kg)	(5917 kg)	(5890 kg)	(5627 kg)	(5434 kg)								
Tipping load, 35-deg. turn	11,945 lb.	11,765 lb.	11,715 lb.	11,190 lb.	10,810 lb.								
	(5418 kg)	(5337 kg)	(5314 kg)	(5076 kg)	(4903 kg)								
Tipping load, 40-deg.	11,535 lb.	11,360 lb.	11,310 lb.	10,800 lb.	10,445 lb.								
full turn, SAE	(5232 kg)	(5153 kg)	(5131 kg)	(4899 kg)	(4738 kg)								
Loader operating weight	19,335 lb.	19,500 lb.	19,590 lb.	19,920 lb.	20,205 lb.								
	(8770 kg)	(8845 kg)	(8886 kg)	(9035 kg)	9165 kg)								

* SAE Standard J732B has been superseded by J732C and is included for reference only.

Adjustments to operating weights and tipping l			1	attest with bring self-soc
Add $(+)$ or deduct $(-)$ lb. (kg) as indicated for loader equipped with:	Loader Operating Weight	Tipping Load, Straight	Tipping Load, 35-deg. turn	Tipping Load, 40- deg. full turn, SAE
Roll-over protective structure	+700 lb.	+620 lb.	+580 lb.	+570 lb.
w/ canopy	(318 kg)	(281 kg)	(263 kg)	(259 kg)
Cab (includes roll-over protective structure)	+1,095 lb.	+970 lb.	+915 lb.	+890 lb.
	(497 kg)	(440 kg)	(415 kg)	(404 kg)
One additional set of side counter-	+500 lb.	+980 lb.	+855 lb.	+815 lb.
weights (total of two sets)	(227 kg)	(445 kg)	(388 kg)	(370 kg)
13-24, 10-ply-rating, grader tread tires	-1,250 lb.	-1,040 lb.	-935 lb.	-910 lb.
w/796 lb. (361 kg) fluid in rear	(567 kg)	(472 kg)	(424 kg)	(413 kg)
14-24, 12-ply-rating, grader tread tires	-800 lb.	-685 lb.	-620 lb.	-600 lb.
w/884 lb. (401 kg) fluid in rear	(363 kg)	(311 kg)	(281 kg)	(272 kg)
15.5-25, 10-ply-rating, loader tread tires	- 625 lb.	- 565 lb.	-510 lb.	-495 lb.
w/896 lb. (406 kg) fluid in rear	(283 kg)	(256 kg)	(231 kg)	(225 kg)

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