



JD444 LOG AND LUMBER LOADER



FEATURES

85 SAE net hp (90.4 DIN-PS)

4-wheel drive

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

Power steering. Articulated frame

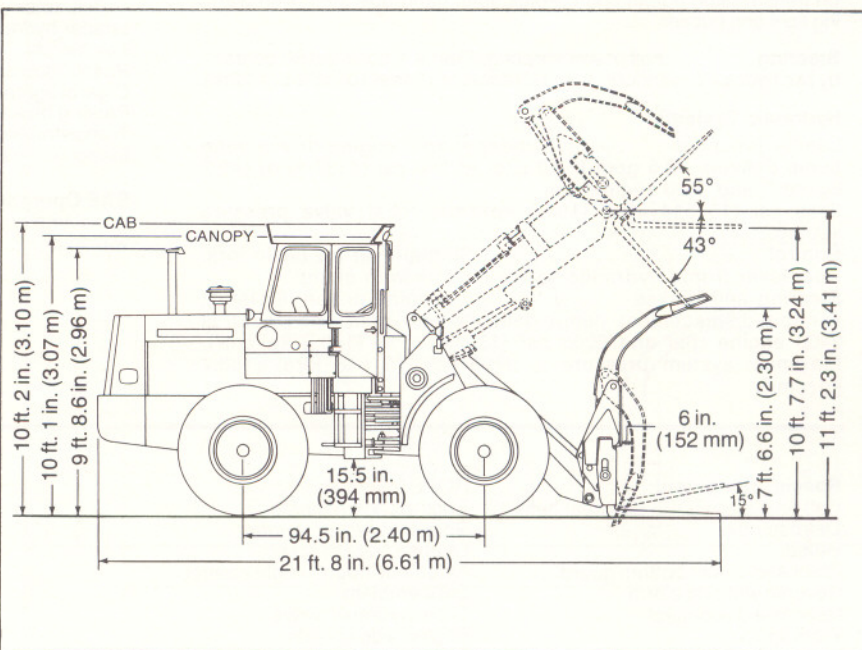
4-wheel power wet-disk brakes and parking brake

Inboard planetary final drives

Brake-actuated transmission disconnect

Vandal protection

Roll-over protective structure (ROPS) w/canopy



JD444 LOG AND LUMBER LOADER SPECIFICATIONS

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, specifications are based on a machine equipped with standard equipment, 15.5-25, 8-ply-rating tires, full fuel tank and 175-lb. (79 kg) operator.)

Power (@ 2400 engine rpm):	SAE	DIN
Gross	95 hp (70.8 kW)	
Net	85 hp (63.4 kW)	90.4 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, alternator, and muffler. Gross engine power is without fan. Flywheel power 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. No derating is required up to 5000 ft. (1524 m) altitude.

Engine: John Deere diesel, vertical 6-cylinder, 4-stroke
 Bore and Stroke 4.02x4.33 in. (102x110 mm)
 Piston displacement329 cu. in. (5391 cm³)
 Compression ratio 16.7 to 1
 Maximum torque @ 1400 rpm: 228 lb-ft (309 Nm) (31.5 kg-m)
 NACC or AMA (U.S. Tax) horsepower 38.6
 Lubrication Pressure system w/full-flow filter
 Cooling Pressurized w/thermostat and controlled bypass
 Fan Blower
 Air cleaner w/restriction indicator Dry
 Electrical system 12-volt w/alternator
 Batteries (two 6-volt) Reserve capacity: 420 minutes

Torque Converter

Type Twin-turbine
 Torque multiplication 5.44 to 1

Transmission Power Shift planetary

Forward Speeds	mph	km/h
1	0-2.8	0-4.5
2	2.8-6.5	4.5-10.5
3	0-10.7	0-17.2
4	10.7-22.5	17.2-36.2

Reverse Speeds

1	0.3-8	0-6.1
2	3.8-8.5	6.1-13.7

Note: Shift from 1st to 2nd and 3rd to 4th is automatic.

Differentials:

Front and rear Standard

Drive Axles

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

Brakes:

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

Steering Full power steering. Frame articulated 80 degrees by two hydraulic cylinders. Turning radius of 13 feet 10 inches (4.22m).

Hydraulic Systems:

Loader functions Independent engine-driven vane pump delivers 39.5 gpm (2.49 L/s) at 600 psi (4137 kPa) (42.2 kg/cm²) and 2400 engine rpm.
 2250 psi (15 514 kPa) (158.2 kg/cm²) relief valve pressure setting.
 Control Single-lever for basic fork.
 Dual lever (triple hydraulic valve) for fork with clamp.
 Steering and brakes Engine-driven, 8-piston, variable-displacement pump delivers 26.0 gpm (1.64 L/s) at 2400 engine rpm and 2000 psi (13 790 kPa) (140.6 kg/cm²). Maximum system pressure is 2400 psi (16 548 kPa) (168.7 kg/cm²).

Hydraulic Cylinders:

	Bore	Stroke
Boom, two	5.25 in. (133 mm)	22.26 in. (565 mm)
Tilt, one	5.25 in. (133 mm)	25.28 in. (642 mm)
Cylinder rods	Ground, heat-treated, chrome-nickel-plated, polished.	
Boom and tilt cylinder rods	2.25 in. (57 mm)	dia.

Tires:

15.5-25, 8-ply-rating, L2
 17.5-25, 12-ply-rating, L2

Wheel Treads:

Front and rear 70 in. (1.78 m)

Operating Information: w/o clamp

	w/o clamp	w/clamp
Operating load:		
Straight	5522 lb. (2505 kg)	5061 lb. (2296 kg)
Full turn	4774 lb. (2165 kg)	4307 lb. (1954 kg)
Tipping load:		
Straight	11,045 lb. (5010 kg)	10,122 lb. (4591 kg)
Full turn	9549 lb. (4331 kg)	8614 lb. (3907 kg)
Length of tines	4 ft. (1.22 m)	4 ft. (1.22 m)
Tine spacing, center to center	51 to 70 in. (1.30 to 1.78 m)	65.5 in. (1.66 m)
Min. dia. w/clamp closed	6 in. (152 mm)	
Maximum dump angle	43 deg.	43 deg.
Rollback at ground level	20 deg.	15 deg.
Fork weight	1400 lb. (635 kg)	2400 lb. (1089 kg)

Capacities:

	U.S.	Imp.	Liters
Cooling system	32 qt.	26.7 qt.	30.3
Fuel tank	40 gal.	33.3 gal.	151.4
Crankcase	11 qt.	9.2 qt.	10.4
Crankcase, including filter	12 qt.	10.0 qt.	11.4
Transmission case and filters	40 qt.	33.3 qt.	37.9
Front and rear differential	17 qt.	14.2 qt.	16.1
Loader hydraulic sump	52 qt.	43.3 qt.	49.2

Additional Standard Equipment:

Adjustable cushioned seat	Lights, driving
Front fenders	Horn
Gauges:	Fuel filter
Transmission oil temperature	Automatic return to level
Transmission oil pressure	Vertical muffler w/rain cap
Fuel	Rear bottom guard
Coolant temperature	Hand grips
Engine oil pressure	Fixed drawbar
Electric hourmeter	ROPS canopy and seat belt
Voltmeter	Antifreeze
Loader hydraulic system indicator	Precleaner
Key switch	Ether starting aid
Pushbutton safety start	
Cigaret lighter	
Parking brake warning light and buzzer	
Transistorized voltage regulator	
Instrument panel cover w/lock	

SAE Operating Weight:

	lb.	kg
w/o clamp	18,870	8559
w/clamp	20,270	9194

Special Equipment:

Cab (includes ROPS and seat belt)	ROPS quiet cab
Defroster fan	Engine coolant heater
Heater	Splash guard for fenders
Front and center bottom guard	License plate bracket
Reverse warning alarm	Automatic boom height control
Rear axle disconnect	SMV emblem
Work lights	Triple hydraulic valve
No-spin front differential	Engine side shields
	Flashing and turn signal lights