

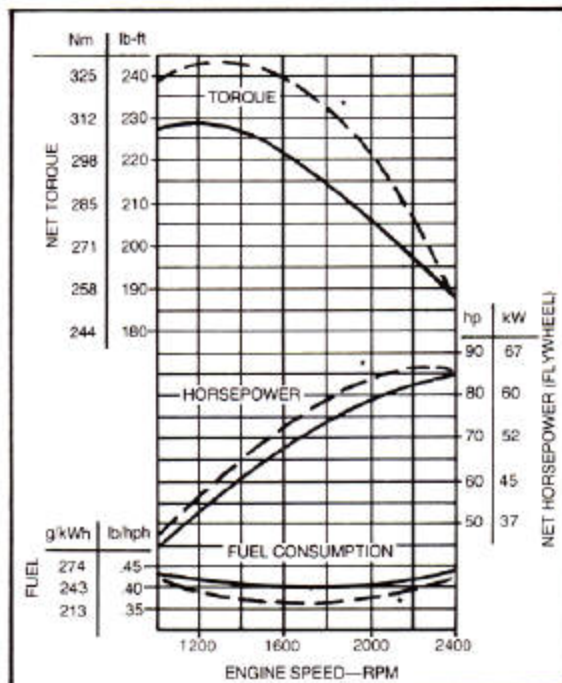


444C LOADER



Model shown may include options

ENGINE PERFORMANCE



Fuel consumption rate based on maximum horsepower at each net torque requirement. Depending on operation variables, a typical duty cycle averages about one-half of maximum fuel usage.

*With Altitude-Compensating Turbocharger (ACT) option
Standard engine torque rise 22%; with ACT, 31%.

▲ FEATURES

- 85 SAE net hp (63.4 kW)
- 4-wheel drive
- 1½ or 1¼ cu. yd. (1.15 or 1.34 m³) general purpose, 3 cu. yd. (2.29 m³) light materials, or 1½ cu. yd. (1.15 m³) multipurpose bucket
- Twin-turbine torque converter with Power Shift transmission, 4 speeds forward, 2 reverse
- Power steering. Articulated frame
- 4-wheel wet-disk power brakes and parking brake
- Inboard planetary final drives
- Single-lever loader control w/optional automatic return-to-dig and optional boom height control
- Optional brake-actuated transmission disconnect
- Roll-over protective structure (ROPS) with canopy. Meets criteria of SAE J394, SAE J1040A, and ISO 3471. Also meets FOPS (falling object protective structure) criteria SAE J231 and ISO 3449.
- Optional front-axle hydraulic differential lock
- Optional vandal protection

▲ ADD VERSATILITY WITH:

- Backhoe
- Bucket teeth
- Bucket spill guard
- Auxiliary cutting edge
- General-purpose side-dump bucket
- Snow removal equipment
- Quik-Tatch adapters
- Forks

444C LOADER SPECIFICATIONS

(Specifications are designed 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 all standard equipment, 15.5-25, 8-PR loader-tread tires, ROPS cab, full fuel tank, and 175 lb. (79 kg) operator.)

Power (@2400 engine rpm)

	SAE	DIN ▲
Gross	95 hp (71 kW)	
Net	85 hp (63.4 kW)	90.4 hp (66.5 kW)

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. (150 m) altitude and 85 F (29.5 C) 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. (1520 m) altitude. Optional altitude-compensating turbocharger (ACT) recommended for no derating at altitudes of 5000 to 10,000 ft. (1520 to 3050 m).

Engine: John Deere diesel, 6-cylinder, 4-stroke cycle

Bore and stroke	4.02 x 4.33 in. (102 x 110 mm)	
Piston displacement	329 cu. in. (5.392 L)	
Compression ratio	16.2 to 1	
Maximum torque @1200 rpm	228 lb-ft (309 Nm) (31.5 kg-m)	
(ACT option)	244 lb-ft (331 Nm) (33.8 kg-m)	
Torque rise (ACT option)	22 percent	
NACC or AMA (U.S. Tax) horsepower	38.8	
Lubrication	Pressure system w/full-flow filter	
Cooling	Pressurized w/thermostat and controlled bypass	
Fan: w/o air conditioner	Blower	
w/air conditioner	Suction	
Air cleaner w/restriction indicator	Dry	
Electrical system	12-volt w/alternator	
Batteries (two 12-volt) 25 amps at 80°F (27°C)	Reserve capacity: 170 min. each	
▲ BCI group 31 cold cranking capacity at 0°F (-18°C)	625 amps	
▲ Alternator: standard	42 amp	
optional	62 amp	

Torque Converter

Type	Twin-turbine
Torque multiplication	5.44 to 1

Transmission

	Power Shift planetary
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Forward Speeds	mph	km/h
1	0-2.9	0-4.7
2	2.9-6.5	4.7-10.5
3	0-11.0	0-17.7
4	11.0-24.6	17.7-39.6

Reverse Speeds

1	0-3.9	0-6.3
2	3.9-8.8	6.3-14.2

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

Differentials

Front and rear	Standard
Front hydraulic differential lock	Optional

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).

Brakes

Service Power-actuated, 4-wheel inboard-mounted, wet disk. Foot-operated by either pedal. Left pedal also disconnects transmission.

Parking 10 x 1.5 in. (254 x 38 mm) expanding shoe on transmission output shaft, foot-operated. Includes transmission disconnect. Warning light on instrument panel. Warning buzzer.

Steering Full power steering. Frame articulated 80 degrees by two hydraulic cylinders.

Cylinder size: Stroke	15.75 in. (400 mm)
Bore	3 in. (76 mm)
Rod diameter	1.5 in. (38 mm)

Turning radius outside tire	Measured to center line of 13 ft. 10 in. (4.22 m)
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Hydraulic Systems:

Loader functions Independent engine-driven gear-type pump delivers 40.0 gpm (2.52 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, dual hydraulic valve. Optional triple hydraulic valve with separate lever.

Steering and brakes Engine-driven, 8-piston, variable-displacement pump delivers 20.6 gpm (1.30 L/s) at 1800 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).

Loader hydraulic operating cycle times at full throttle:

Raise	5.8 sec.
Dump	1.6 sec.
Lowering: float	4.0 sec.
▲ power	4.7 sec.

Maximum lift capacity w/standard operating equipment:

Maximum height	7550 lb. (3425 kg)
Ground level	18,200 lb. (8255 kg)

Hydraulic Cylinders:

	Bore	Stroke
Boom, two	5.25 in. (133 mm)	22.5 in. (571 mm)
Bucket, one	5.25 in. (133 mm)	25.3 in. (643 mm)
Cylinder rods	Ground, heat-treated, chrome-nickel-plated, polished	
Boom and bucket cylinder rods	2.25 in. (57 mm) dia.	

▲ Tires:

15.5-25, 8-PR, L2 loader tread, standard
 15.5-25, 12-PR, L2 loader tread
 17.5-25, 12-PR, L2 loader tread w/valve stem protectors

Wheel Treads:

Front and rear	70 in. (1.78 m)
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Capacities:

	U.S.	Liters
Cooling system	25 qt.	24
Fuel tank	40 gal.	151.4
Crankcase	11 qt.	10.4
Crankcase, including filter	12 qt.	11.4
Transmission case and filters	40 qt.	38
Front and rear differential	17 qt.	16.1
Loader hydraulic sump	56 qt.	53

▲ Additional Standard Equipment:

Adjustable cushioned seat with belt	Instrument panel warning lights:
Alternator, 42 amp	Hydraulic filter bypass
Antifreeze	Parking brake
Articulation transport lock	Hand grips
Cigaret lighter	Horn
Fixed drawbar	Key switch
Fuel filter	Lights, driving w/o guard
Gauges:	Lights, stop and tail
Coolant temperature	Loader hydraulic system indicator
Electric hourmeter	Low-maintenance batteries
Engine oil pressure	Muffler
Fuel	Precleaner
Transmission oil pressure	Pushbutton safety start
Transmission oil temperature	Rear bottom guard
Voltmeter	Reverse warning alarm
	ROPS canopy w/seat belt
	Toolbox
	Transistorized voltage regulator

▲ Optional or Special Equipment:

Adjustable deluxe seat	Heater for canopy
Adjustable deluxe suspension cloth seat for cab	Hydraulic front differential lock
Adjustable deluxe suspension vinyl seat	Hydraulic tube shield
Alternator, 62 amp	License plate bracket
Altitude-compensating turbocharger	Lights, driving w/guards
Automatic boom height control	Lights, flashing and turn signal
Automatic return-to-dig	Lights, front and rear work
Auxiliary front bottom guard	Lockable engine sideshields w/front hood locks
Auxiliary cutting edges	Lockable instrument panel covers
Auxiliary spill guard	Pest covers (for canopy or cab w/o heater)
Bucket teeth	Rear axle disconnect
Emergency steering	Rear canopy shield
Engine coolant heater	For ROPS cab:
Ether starting aid	Mirrors
Floor mat	Radio—AM
Front fenders	Rear wiper
	Rear wiper cover
	Windshield washer
ROPS cab w/heater/defroster, pressurizer, dome light, front wiper and 62-amp alternator	
ROPS cab w/o heater/defroster, pressurizer, but with dome light, front wiper and 42-amp alternator	
ROPS cab w/air conditioner, heater/defroster, pressurizer, dome light, front wiper and 62-amp alternator	
SMV emblem	
3-in. (76 mm) seat belt	
Transmission disconnect	
Triple hydraulic valve for loader	

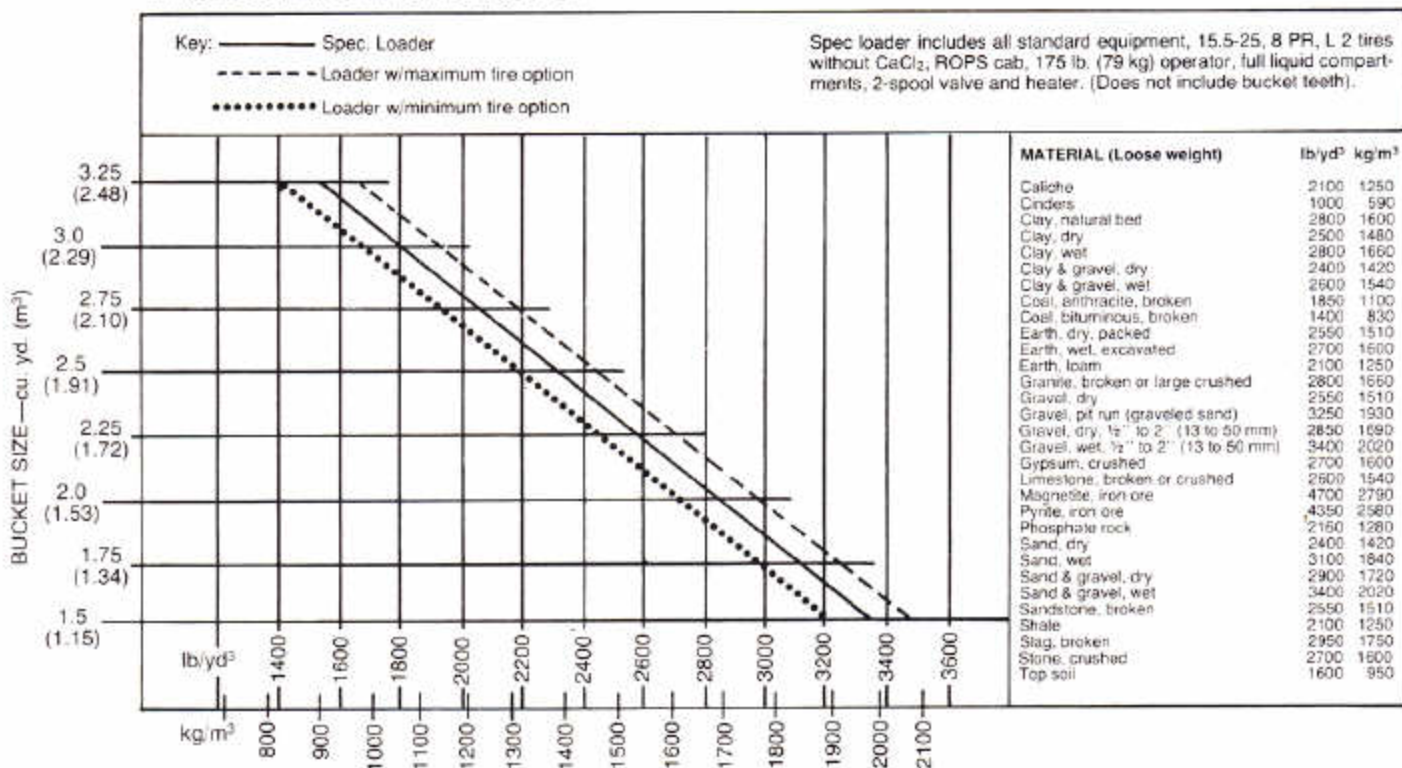
444C LOADER OPERATING INFORMATION

OPERATING INFORMATION	BUCKET			
	General Purpose	General Purpose	Light materials	Multipurpose
Capacity, heaped, SAE	1½ cu. yd. (1.15 m ³)	1¾ cu. yd. (1.34 m ³)	3 cu. yd. (2.29 m ³)	1½ cu. yd. (1.15 m ³)
Capacity, struck, SAE	1.22 cu. yd. (0.93 m ³)	1.42 cu. yd. (1.09 m ³)	2.49 cu. yd. (1.90 m ³)	1.23 cu. yd. (0.94 m ³)
Bucket width	88 in. (2.24 m)	92 in. (2.34 m)	96 in. (2.44 m)	88 in. (2.24 m)
Bucket weight	1190 lb. (540 kg)	1470 lb. (667 kg)	1920 lb. (871 kg)	2122 lb. (963 kg)
Breakout force, J732C SAE Standard using bucket hinge pin as pivot point	17,017 lb. (76 kN) (7719 kg)	15,716 lb.* (70 kN) (7129 kg)	11,267 lb. (50 kN) (5111 kg)	14,639 lb.* (65 kN) (6640 kg)
Tipping load, straight, max. reach	12,689 lb. (5756 kg)	13,753 lb.* (6238 kg)	11,922 lb. (5408 kg)	11,673 lb.* (5295 kg)
**Tipping load, 40-deg. full turn SAE	10,995 lb. (4987 kg)	11,886 lb.* (5392 kg)	10,231 lb. (4641 kg)	9,999 lb.* (4536 kg)
Tipping load, 35-deg. turn	11,380 lb. (5162 kg)	12,308 lb. (5583 kg)	10,615 lb. (4815 kg)	10,380 lb.* (4708 kg)
Reach @ 45 deg. dump, 7 ft. (2.13 m) clearance	52.4 in. (1.33 m)	52.9 in. (1.34 m)	55.9 in. (1.42 m)	47.7 in. (1.21 m)
Reach @ 45 deg. dump, full height	32.9 in. (836 mm)	34.33 in. (872 mm)	41.83 in. (1062 mm)	33.35 in. (847 mm)
Circle diameter of turning clearance outside bucket	32 ft. (9.75 m)	32 ft. 2 in. (9.80 m)	33 ft. 3 in. (10.13 m)	32 ft. 6 in. (9.91 m)
Loader operating weight	17,967 lb. (8150 kg)	19,198 lb.* (8708 kg)	18,704 lb. (8484 kg)	19,855 lb.* (9006 kg)

*Operating weight and specification with 1¾ cu. yd. (1.34 m³) bucket and 1½ cu. yd. (1.15 m³) multipurpose bucket includes 75% fill of CaCl₂ solution in rear tires.

**SAE operating load specification for wheel loaders will not exceed 50% of the SAE full turn tipping load.

▲ 444C BUCKET SELECTION GUIDE *



All figures based on 44% of SAE tipping load

*This guide, representing average general purpose size buckets not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density and loader configurations. However, specific bucket size should only be determined after adding or subtracting all the tipping load changes due to specifications.

444C LOADER OPERATING INFORMATION

MATERIAL WEIGHT

▲ Maximum recommended material weight, lb. per cu. yd. (kg/m³):

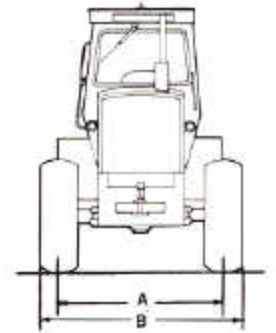
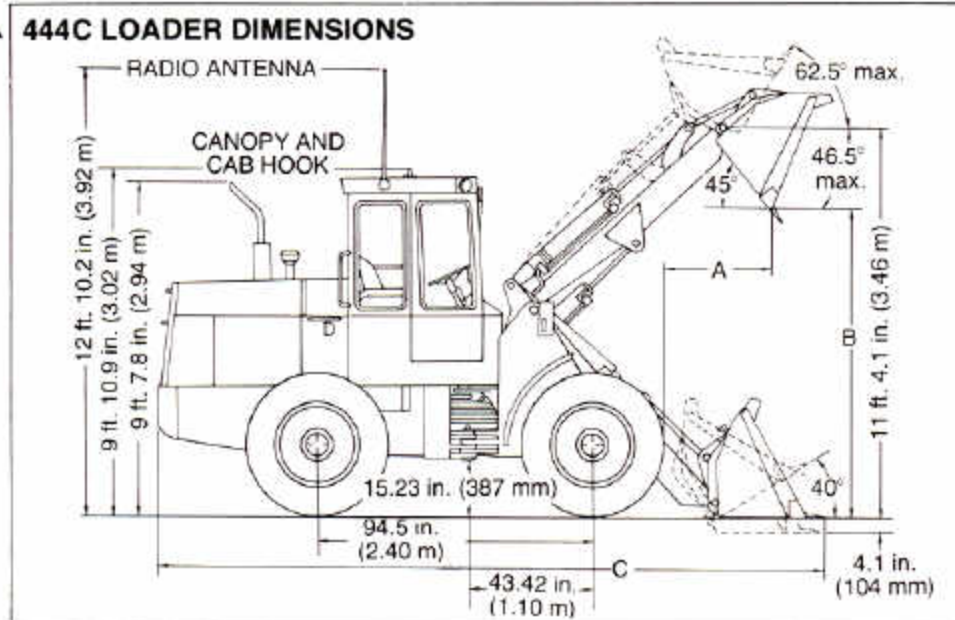
All standard equipment and 15.5-25, 8-PR tires	1½ cu. yd. (1.15 m ³) General purpose	1¾ cu. yd.* (1.34 m ³) General purpose	3 cu. yd. (2.29 m ³) Light materials	1½ cu. yd.* (1.15 m ³) Multipurpose
Loader less cab or canopy	3062 (1815)	2846 (1690)	1418 (840)	2784 (1650)
Loader with canopy	3159 (1875)	2931 (1740)	1467 (870)	2873 (1705)
Loader with cab	3225 (1910)	2988 (1770)	1500 (890)	2933 (1740)

*Standard operating weight plus 75% fill of CaCl₂ solution in rear tires.

▲ Adjustments to operating weights and tipping loads for 1½ cu. yd. (1.15 m³) general purpose bucket:

Add (+) or deduct (-) lb. (kg) as indicated for loader equipped with:	Loader Operating Weight	Tipping Load Straight	Tipping Load, 40-deg. Full Turn, SAE
Less ROPS cab	- 696 lb. (316 kg)	- 598 lb. (271 kg)	- 555 lb. (252 kg)
ROPS canopy in lieu of ROPS cab	- 283 lb. (128 kg)	- 244 lb. (111 kg)	- 226 lb. (102 kg)
17.5-25, 12-PR, loader tread tires	+ 645 lb. (293 kg)	+ 420 lb. (191 kg)	+ 365 lb. (166 kg)
Air conditioning	+ 70 lb. (32 kg)	+ 125 lb. (57 kg)	+ 105 lb. (48 kg)
Auxiliary cutting edge	+ 120 lb. (54 kg)	- 155 lb. (70 kg)	- 155 lb. (70 kg)
Auxiliary spill guard	+ 110 lb. (50 kg)	- 75 lb. (34 kg)	- 75 lb. (34 kg)
Set of side weights (1)	+ 460 lb. (209 kg)	+ 826 lb. (375 kg)	+ 691 lb. (313 kg)
Add fluid to 15.5-25 tires	+ 940 lb. (426 kg)	+ 1224 lb. (555 kg)	+ 1069 lb. (485 kg)
Add fluid to 17.5-25 tires	+ 1180 lb. (535 kg)	+ 1546 lb. (701 kg)	+ 1342 lb. (609 kg)
Bucket teeth	+ 144 lb. (65 kg)	- 196 lb. (89 kg)	- 196 lb. (89 kg)

444C LOADER DIMENSIONS



	A Wheel Tread	B Overall Width
15.5-25	70.0 in. (1.78 m)	85.5 in. (2.17 m)
17.5-25	67.7 in. (1.72 m)	85.5 in. (2.17 m)

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4-444C-4

▲

BUCKETS	DIMENSIONS		
	A	B	C
1½ cu. yd. (1.15 m ³)	32.9 in. (836 mm)	9 ft. 1.2 in. (2.77 m)	19 ft. (5.80 m)
1¾ cu. yd. (1.34 m ³)	33.5 in. (851 mm)	8 ft. 11.4 in. (2.73 m)	19 ft. 2.6 in. (5.86 m)
3 cu. yd. (2.29 m ³)	41.83 in. (1062 mm)	8 ft. 3.9 in. (2.54 m)	20 ft. 2.2 in. (6.15 m)
1½ cu. yd. multipurpose (1.15 m ³)	33.35 in. (847 mm)	8 ft. 5.5 in. (2.58 m)	19 ft. 11.2 in. (6.08 m)