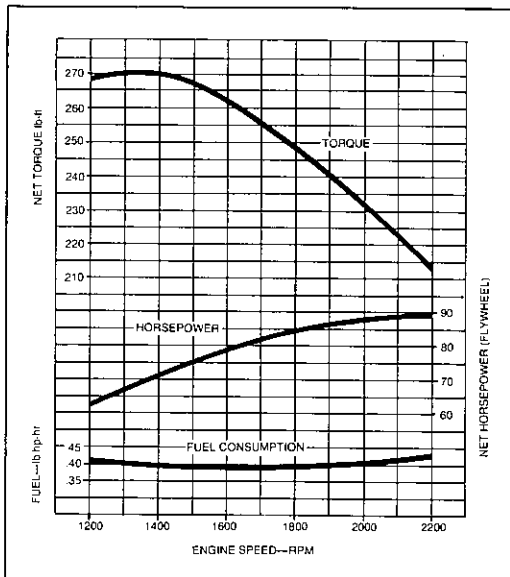




JD540-B SKIDDER



ENGINE PERFORMANCE



FEATURES

- 90 SAE net hp (91.1 PS)
- Articulated frame steering
- Oscillating front axle
- Power Shift transmission
- Differential lock on both axles
- 4-wheel, wet-disk power brakes never need adjusting
- Hydraulically actuated winch
- Adjustable arch rollers

JD540-B SKIDDER 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, these specifications are based on a unit equipped with 23.1-26, 10-ply-rating logging tires and standard equipment).

Power (@ 2200 engine rpm):	SAE	
Gross .....	.96 hp (71.5 kW*)	
Net .....	.90 hp (67.1 kW)	91.1 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner, water pump, lubricating oil 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° F. temperature, and DIN 70 020 conditions (non-corrected). No derating is required up to 10,000 feet (3000 m) altitude.

*In the international system of units (SI) power is expressed in kilowatts (kW).

Engine: John Deere turbocharged diesel, 4-cylinder, 4-stroke cycle	
Bore and stroke .....	.4.19x5 in. (106x127 mm)
Piston displacement .....	.276 cu. in. (4523 cm ³)
Compression ratio .....	.16.7 to 1
Maximum torque @1400 rpm .....	.270 lb-ft (366 Nm) (37.32 kg-m)

NACC or AMA (U.S. Tax) horsepower .....	.28
Lubrication .....	.Pressure system w/full-flow filter
Cooling .....	.Pressurized w/thermostat and fixed bypass
Fan .....	.Blower
Air cleaner w/restriction indicator .....	.Dry
Electrical system .....	.12-volt w/alternator
Batteries (2) .....	.Reserve capacity: 410 minutes

Differentials:

Front and rear Full differentials w/hydraulic lock

Engine Clutch Disconnect:

Hand-operated, spring-loaded, dry-disk. Single plate, 12 in. (305 mm).

Transmission:

Power Shift with planetary gears, hydraulically actuated wet-disk clutches and brakes; provides 8 speeds forward—4 reverse. Controlled by single lever on console.

Travel Speeds (2200 engine rpm, no tire slip):

Forward: 1.7 mph (2.7 km/h) to 17.9 mph (28.8 km/h)

Reverse: 2.0 mph (3.2 km/h) to 5.8 mph (9.3 km/h)

Drive Axles:

Four-wheel drive with inboard planetary gears on all axles. Front axle oscillates 15 degrees above and below horizontal. 20 in. (508 mm) total travel at tire center line.

Brakes:

Hydraulic power actuated, dual controlled disks on 4 wheels, lockable for winching. Hand-operated mechanical brake for parking and emergency stop.

Power Steering:

Articulated frame hydraulically actuated by dual cylinders.
Turning radius 19 ft. 2 in. (5.85 m)
Turning clearance 39 ft. 10 in. (12.14 m)

Hydraulic System:

Closed-center constant pressure. Variable-displacement pump driven from crankshaft 25 gpm (95 l/min) 2000 psi (137.9 bar) (140.6 kg/cm²) @ 2200 engine rpm. Oil cooler included in system.

Tires:

18.4-26, 10-ply-rating, logging, LS2
18.4-34, 10-ply-rating, steel-ply, LS2
23.1-26, 10-ply-rating, steel-ply, LS2
28.1-26, 10-ply-rating, steel-ply, LS3
28.1-26, 14-ply-rating, steel-ply, LS2

Capacities:

	U.S.	Liters
Fuel tank .....	.42 gal.	159.0
Cooling system	8 gal.	30.3
Engine lubrication, including filter .....	.14 qt.	13.2
Transmission and hydraulic system	9 gal.	34.1
Front differential .....	.4.5 gal.	17.0
Rear differential .....	.4.5 gal.	17.0
Winch .....	.2.5 gal.	9.5

Additional Standard Equipment:

Muffler	Arch w/adjustable rollers
Fuel gauge	Engine side shields
Oil pressure gauge	Deluxe seat w/suspension
Alternator charge warning light	Cigaret lighter
Water temperature gauge	Foot throttle
Transmission oil temperature gauge	Hand throttle
Transmission oil pressure warning light	Lights
Parking brake warning light and buzzer	Front blade
Transistorized voltage regulator	Front pull hook
Electric hourmeter	Integral log bumper
Key switch w/push button safety start	Roll-over protective structure (ROPS) w/canopy, seat belt, brush screens, and limb risers
Horn	Vandal protection
Fire extinguishers (2)	Reinforced bottom guards
Flanged axles	
John Deere winch	
Ether starting aid	
Heavy duty starter	

SAE Operating Weight 16,675 lb. (7564 kg)

Winch:

Cable capacities*:	
1/2-in. (12.7 mm) cable .....	.230 ft. (70.1 m)
3/8-in. (15.8 mm) cable .....	.151 ft. (46.0 m)
1/4-in. (19.1 mm) cable .....	.107 ft. (32.6 m)

*Calculated: No allowance made for loose or uneven spooling.

Line pull (2200 rpm):

Bare drum .....	.24,800 lb. (111.16 kN) (11 249 kg)
Full drum .....	.15,300 lb. (68.58 kN) (6940 kg)

Line speed (2100 rpm):

Bare drum .....	.115 fpm (35.1 m/min)
Full drum .....	.187 fpm (56.9 m/min)

Blade: Hydraulic control

Width .....	.6 ft. 11 in. (2.11 m)
Height (ends) .....	.1 ft. 8 in. (508 mm)
Height (center) .....	.2 ft. 3 in. (686 mm)
Max. lift above ground level .....	.4 ft. 4 in. (1.31 m)
Max. drop below ground level .....	.9 in. (229 mm)

Arch:

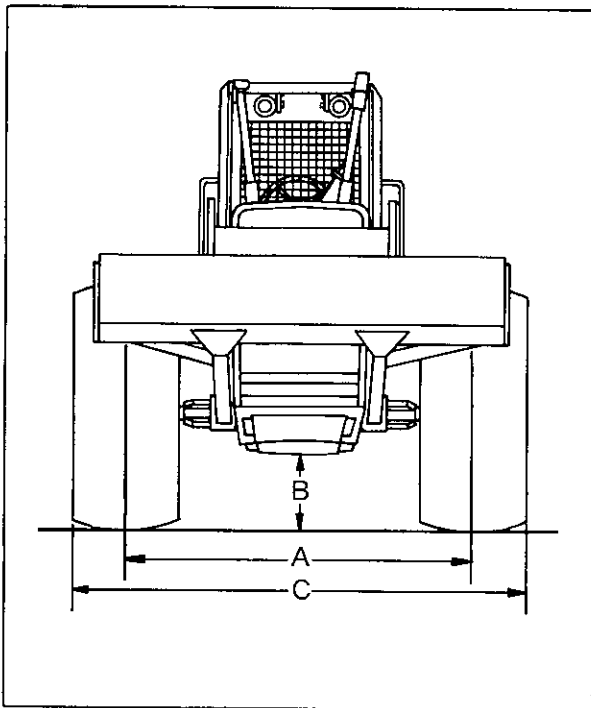
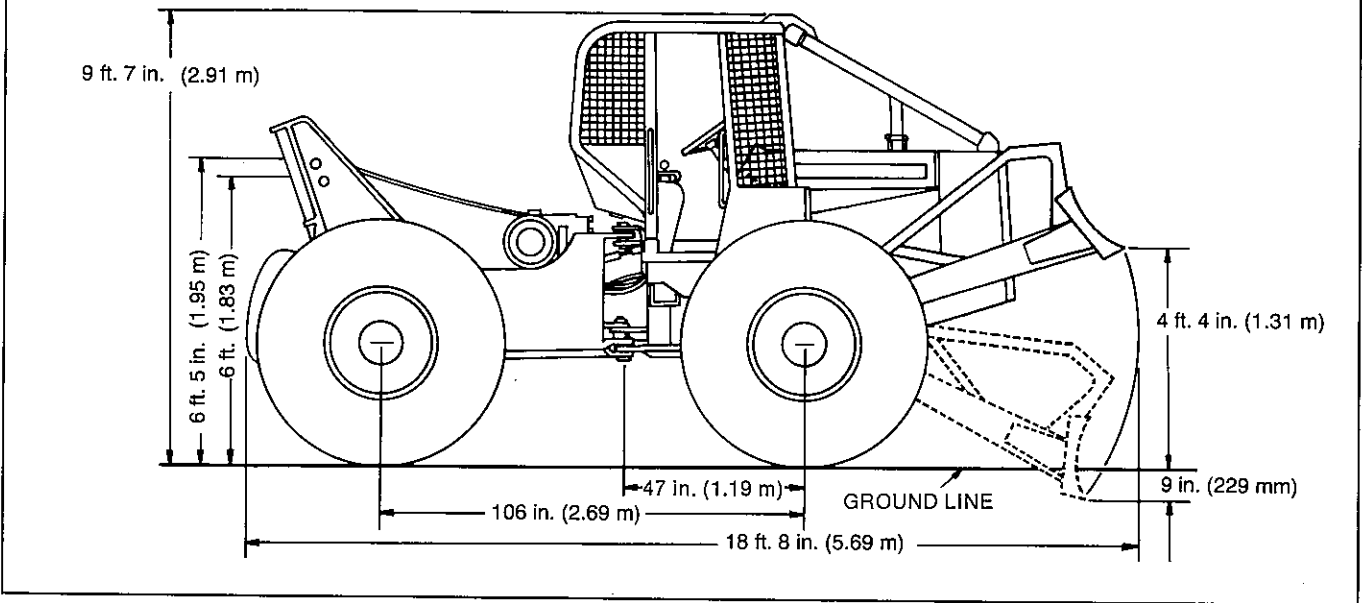
Horizontal roller .....	.6 in. (152 mm) dia.
Vertical rollers (through-hardened steel) .....	.4.5 in. (114 mm) dia.
Working height (top of horizontal roller to ground):	
Settings: Lower—6 ft. (1.83 m)	
Upper—6 ft. 5 in. (1.95 m)	

Special Equipment:

Wheel weights
Engine coolant heater
Suction fan
Steering accumulator
Cab with heater and noise treatment
Windshield with wiper

JD540-B SKIDDER DIMENSIONS

Sideview dimensions are for skidder equipped with 23.1-26 tires, adjustable arch, and regular bumper in upper position.



TIRE SIZE	A WHEEL TREAD	B GROUND CLEARANCE	C OVERALL WIDTH
18.4-26	76 in. (1.93 m)	1 ft. 8.5 in. (521 mm)	7 ft. 10.4 in. (2.40 m)
18.4-34	76.5 in. (1.94 m)	1 ft. 10 in. (559 mm)	7 ft. 11.4 in. (2.42 m)
23.1-26	80.8 in. (2.05 m)	1 ft. 9 in. (533 mm)	8 ft. 7.9 in. (2.64 m)
28.1-26	87.5 in. (2.22 m)	1 ft. 9.5 in. (546 mm)	9 ft. 7.6 in. (2.94 m)

JD540-B SKIDDER PERFORMANCE

