440D SKIDDER

Model shown may include options

ENGINE PERFORMANCE

FEATURES
- 85 SAE net hp (63.5 kW) John Deere turbocharged diesel
- Articulated-frame power steering
- Automotive-type, position-responsive steering
- Oscillating front axle
- 6-speed Syncro-Range transmission
- Front-axle differential lock
- Wet-disk power service brakes never need adjusting
- Wet-disk parking brake
- Hydraulically actuated winch
- Arch with adjustable roller
- Extended log bumper

ADD VERSATILITY WITH:
- Stacking blade
- Reversible narrow/wide-gauge wheels and tires
- Cab
- Cold weather starting kit
- Lights

*Depending on operating variables
440D SKIDDER SPECIFICATIONS

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, specifications are based on a unit with Syncro-Range transmission, 18-4-26, 10 PR tires, full fuel tank, 175-lb. (60 kg) operator and standard equipment.

Rated Power @ 2200 rpm: SAE DIN 70 020
Net 85hp (63.5 kW) 63.5 kW
Gross 90hp (67 kW) 67 kW

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J2549 and DIN 70 020, using No. 2-D fuel @ 35 API gravity. No derating is required up to 10,000 feet (3050 m) altitude. Gross power is without cooling fan.

Engine: John Deere 4278T
Type: 4-stroke cycle, turbocharged diesel
No. of cylinders: 4
Displacement: 276 cu. in. (4.524 L)
Maximum net torque @ 1300 rpm: 253 Ib-ft (343 Nm) (35 kg-m)
Cooling fan: Blower
Compression ratio: 16.8:1
Lubrication: Pressure system w/full-flow filter
Air cleaner: Dry-type w/restriction indicator
Compression ratio: 16.8:1
Blower

Travel Speeds (2200 engine rpm, no tire slip):
Forward: 1.7-14.1 mph 2.7-22.7 km/h
Reverse: 1.7-8.5 mph 2.7-13.7 km/h

Drive Axles:
Four-wheel drive with S2 Series axles. Inboard planetary on all axles. Front axle oscillates 15 degrees above and below horizontal. Travel at tire center line 20 in. (508 mm).

Steering: Power
Hinged-frame power steering. Position-responsive steering actuated by dual double-acting cylinders. Steering system has hydraulic-pressure priority
Outside clearance circle w/o blade: 33 ft. 10 in. (10.3 m)
Outside clearance circle w/blade: 34 ft. 10 in. (10.5 m)
Solid rear axle: 37 ft. 3 in. (11.4 m)

Brakes:
Service: Hydraulic, power-actuated, pedal-controlled wet-disk brakes. Located on transmission output shaft.
Parking, winching and emergency stop: Hand-operated mechanical wet-disk brake located on driveshaft for braking front and rear axles. Hydraulic release.

Hydraulic System:
Closed center, constant pressure. Variable-displacement pump driven from crankshaft: 25 gpm (1.50 L/minute), 2000 psi (13 790 kPa) (140.6 kg/cm²) @ 2200 engine rpm.
Full-flow filtration, 10-micron filter, oil-to-air cooler. Charge pump driven from winch drive.

Hydraulic Cylinders:
Blade lift cylinders (2) 3.50 in. 14.25 in.
Steering cylinders (2) 2.75 in. 14.37 in.
Blade lift rod (2) dia. 1.50 in. 38.1 mm
Steering cylinder rod (2) dia. 1.75 in. 44.5 mm
Cylinder rods are ground, heat-treated, chrome-plated and polished.

Tires:
16.9-30, 10 PR, steel, LS2 logger
18-4-26, 10 PR, steel, LS2 logger
18-4-24, 10 PR, steel, LS2 logger
23.1-26, 10 PR, steel, LS2 logger
28L-26, 10 PR, steel, LS3 logger
67 x 34.00-26, 10 PR, steel, DT, logger, tubeless

Capacities:
Fuel tank 41 gal. (155.2 L)
Engine lubrication, w/filter 15 qt. (4.5 L)
Transmission and hydraulic system: 8 gal. (30.3 L)
Rear differential 9 gal. (34.1 L)
Rear differential 15 gal. (56.8 L)
Winch 2.5 gal. (9.5 L)

Blade: Hydraulic control
Width: 6 ft. 11 in. (2.11 m)
Max. lift above ground level: 4 ft. 2 in. (1.27 m)
Max. drop below ground level: 11 in. (280 mm)

Cable Arch:
Horizontal roller: 6 in. (152 mm) dia.
Vertical roller (hardened steel): 4.5 in. (114 mm) dia.
Working height settings (top of horizontal roller to ground):
Settings: Lower 5 ft. 11 in. (1.80 m)
Upper 6 ft. 4 in. (1.94 m)

Winch:
Live mechanical drive; hydraulically actuated clutch and brake. Single lever control.
Winch capacities:
1/4-in. (12.7 mm) cable: 223 ft. (68 m)
1/4-in. (15.8 mm) cable: 146 ft. (45.5 m)
3/8-in. (19.1 mm) cable: 103 ft. (31.4 m)
*Calculated—no allowance made for loose or uneven spooling.

Linepull**
Bare drum: 25,200 lb. (112 kN) (11 400 kg)
Full drum: 18,000 lb. (80 kN) (8200 kg)
* Based on maximum engine torque and .75 in. (19 mm) cable.

Line speed (2200 rpm) and .75 in. (19 mm) cable:
Bare drum: 131 fpm (39.9 m/min)
Full drum: 183 fpm (55.8 m/min)

Additional Standard Equipment:
Alternator warning light: Full steering wheel
Brake lights Full drum: Electric hourmeter
Bottom guards, full length Fuel level
Cable arch w/position roller: Heavy-duty starter
Canopy (ROPS), brush Hinge locking bar, two position
screens, limb risers Horn
Cushion seat w/fires, limb risers Key switch w/pushbutton safety
Vertical roller 2000 lb. (90 kg) (8200 kg)
Cable: Muffler
Engine oil pressure warning light: Parking brake warning light
Engine sideshields Vandal protection for radiator
Exhaust w/rain deflector Filler cap
Extended log bumper Winch
Foot throttle

SAE Operating Weight w/Blade: 15,090 lb. (6845 kg)
SAE Operating Weight w/Blade: 14,250 lb. (6464 kg)

Optional or Special Equipment:
Battery (2), 420 min. reserve capacity
Fire extinguisher
Hand throttle
Lights, canopy
Secondary steering system
(canopy (ROPS), windows, requires two AR105227
door, brush screens, limb accumulators)
Engine coolant heater
Stacking blade
Cold weather starting package: Hand speed control
Batteries (2), 420 min. reserve capacity
Vandal protection for radiator
Ether starting aid, electric Filler cap
Hand speed control
Winch warm-up kit
440D SKIDDER DIMENSIONS

Sideview dimensions are for skidder equipped with 18.4-26 tires.

<table>
<thead>
<tr>
<th>TIRE SIZE AND WHEEL TYPE</th>
<th>A GROUND CLEARANCE</th>
<th>B WHEEL TREAD</th>
<th>C OVERALL WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.9-30</td>
<td>19 in. (483 mm)</td>
<td>76 in. (1.93 m)</td>
<td>93 in. (2.36 m)</td>
</tr>
<tr>
<td>18.4-26 (Standard wheel and tire)</td>
<td>18 in. (457 mm)</td>
<td>76 in. (1.93 m)</td>
<td>95 in. (2.41 m)</td>
</tr>
<tr>
<td>18-426 (Narrow-gauge wheel and tire, Type B)</td>
<td>18 in. (457 mm)</td>
<td>66 in. (1.68 m)</td>
<td>85 in. (2.16 m)</td>
</tr>
<tr>
<td>18.4-26 (Narrow/wide-gauge wheel and tire, Type A)</td>
<td>18 in. (457 mm)</td>
<td>70 in. (1.78 m)</td>
<td>95 in. (2.44 m)</td>
</tr>
<tr>
<td>Wide-gauge mounting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reversed narrow-gauge mounting</td>
<td>18 in. (457 mm)</td>
<td>66 in. (1.68 m)</td>
<td>85 in. (2.16 m)</td>
</tr>
<tr>
<td>18.4-34</td>
<td>22 in. (559 mm)</td>
<td>76.5 in. (1.94 m)</td>
<td>95 in. (2.41 m)</td>
</tr>
<tr>
<td>23.1-26</td>
<td>21 in. (533 mm)</td>
<td>82 in. (2.08 m)</td>
<td>106 in. (2.69 m)</td>
</tr>
<tr>
<td>28L-26*</td>
<td>22 in. (559 mm)</td>
<td>85 in. (2.16 m)</td>
<td>114 in. (2.90 m)</td>
</tr>
<tr>
<td>67 x 34.00-26*</td>
<td>22 in. (559 mm)</td>
<td>85 in. (2.16 m)</td>
<td>117 in. (2.97 m)</td>
</tr>
</tbody>
</table>

*S3 Series special-application axle required.