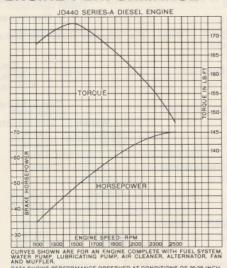


JD440 SERIES-A SKIDDER



ENGINE PERFORMANCE



DATA SHOWS PERFORMANCE OBSERVED AT CONDITIONS OF 29:38 INCH-ES OF MERCURY BAROMETIC PRESSURE (500 FEET) AND 85' FAHR-ENHEIT AIR TEMPERATURE.

FEATURES

TRACTOR

4-wheel drive and oscillating front axle with differential lockout.

Power steering controlled by steering wheel. Pivot steering actuated by dual cylinders.

8 forward speeds with high of 16 mph; 4 reverse.

Power-Shift or Syncro High-Low Transmission available.

4-wheel disk-type hydraulic brakes on Power-Shift model.

Disk-type power brake on Syncro High-Low model runs in oil. 70 flywheel h.p. John Deere 4-cylin-

der Diesel engine. Large-diameter tires available on Power-Shift model.

Deluxe seat. Complete operator pro-

Integrated blade, winch, arch, canopy, and log bumper. (Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with IEMC and SAE Standards.)



WINCH

Mechanical drive; power-actuated clutch and brake. Single-lever hydraulic control.

Holds, winches, and free-spools, with tractor standing or on-the-go.

Produces 17,300 lb. bare drum linepull; line speeds to 159 fpm.

JD440 SERIES-A SKIDDER SPECIFICATIONS

Horsepower (at 2,500 engine rpm, 500-ft. altitude, and 85-deg. F
temp.):
Gross engine flywheel
Net engine flywheel. (Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator). 70
Travel Speeds (mph at 2,500 engine rpm, based on 16.9-30 tires, without slip):

	2,500 rpm		
Shift Lever	Syncro	Power- Shift	
Position	High-Low		
1	2.0	1.5	
2	3.1	2.2	
3	4.0	3.4	
4	5.2	4.4	
5	6.4	5.7	
6	8.5	7.3	
7	10.7	9.7	
8	17.5	16.1	
Rev. 1	2.0	1.8	
Rev. 2	3.1	2.5	
Rev. 3	5.2	3.9	
Rev. 4	8.5	5.1	
Nev. 4		0.1	

Engine: Vertical, 4-cylinder, valve-in-head, 4-stroke cycle Diesel
Bore and stroke4 x 4-1/3 in
Piston displacement219 cu. in
Compression ratio16.3 to 1
Governed speed range
Maximum torque
RPM at maximum torque1,500
LubricationPressure system with full-flow filter
CrankshaftInduction-hardened, counterbalanced, statically and dynamically balanced.
Main and connecting-rod bearingsSteel-backed, aluminum

Syncro High-Low Transmission:

Type...Constant-mesh with 8 forward and 4 reverse speeds. Four shift stations. Syncronized shifting within stations except reverse gears.

Clutch......12-inch, dry-disk, feramic-faced, foot-operated.

Power-Shift Transmission:

Type...Planetary gears, hydraulically actuated wet disk clutches and brakes. 8 forward and 4 reverse speeds hydraulically shifted and controlled by a single lever.

Disconnect clutch...12-inch, dry-type clutch operated by a hand

Front.....Full differential with hydraulic lock. Rear..... Solid axle with no differential action.

Drive Axles:

Four-wheel drive with planetary gears on all axles.

Oscillating front axle to 15 degrees above and below horizontal, 18-inch travel at tire center line.

Syncro High-Low...Power operated disk-type on output shaft with mechanical winching brake for parking and winching.

Power-Shift...Power four-wheel axle-mounted single-disk brakes hydraulically operated with single-pedal control. Mechanical winching brake for parking and winching.

Steering...Power, hydraulically actuated by steering wheel. Pivot steering, dual cylinder controlled. 16 9-30 tires 18 4-34 tires

10.0-00 11100	IOIT OT CITOO
16 ft. 8 in.	19 ft. 2 in.
35 ft. 6 in.	38 ft. 8 in.
oump, thermos	
	bypass.
integral with ir	jection pump.
ger, inlet met	
	16 ft. 8 in. 35 ft. 6 in. oump, thermos integral with ir ger, inlet met

cylinder distributor type.

Hydraulic System... Closed center, constant pressure. Variabledisplacement pump driven from front of engine; 28 gpm at 2,500 rpm; 2,000 psi operating pressure. Oil supplied from transmission. Tires:

16.9-30, 8-ply "Logger Special" 18.4-34, 10-ply "Logger Special" 23.1-26, 10-ply "Logger Special" and Nylon

Wheel Treads (center-to-center):

Tire Size	Syncro High-Low	Power-Shift
16.9-30	72 in.	74 in.
18.4-26	73 in.	75 in.
18.4-34		76.5 in.
23.1-26		84 in.

Dimensions:	Syncro High-Low (16.9-30 tires)	Power-Shift (18.4-34 tires)
Height (top of canopy)	105-1/2 in.	105-1/2 in.
Width		91 in.
Length with blade		232 in.
Wheelbase		103-1/2 in.
Ground clearance		22 in.
Commellian (II C Chanded Masses		

Capacities (U.S. Standard Measures):	
Fuel tank	24 gal.
(Power-Shift w/ Long Frame)	42 gal.
Cooling system	4 gal.
Engine lubrication (including filter)	9 qt.
Transmission case (includes hydraulic system):	
Syncro High-Low	8 gal.
Power-Shift	9 gal.
Front differential	9 gal.
Rear axle case	4-1/2 gal.

Weight (approximate): Shipping (with blade)

 Syncro High-Low—16.9-30 tires
 11,900 lb.

 Power-Shift w/ 18.4-30 tires
 14,000 lb.

> Suction fan Engine side-shields

Canopy

Log bumper

Foot throttle Hand throttle

Front blade

Blower fan

Seat belt

tires

Winch

Air cleaner (dry type)

Log arch and fairlead

140-amp. hour battery installa-tion (two 70 amp. batteries)

Seat: Deluxe with suspension

16.9-30, 8-ply "Logger Special"

Auxiliary hydraulic outlets Lights: Front, rear, and panel

Engine coolant heater

Spark arrester muffler

Base Equipment: Hydraulic system Power steering Power brake Muffler Fuel gauge Oil-pressure indicator light Alternator-charge indicator light Water-temperature gauge Differential lock for front axle Transistorized voltage regulator Speed-hour meter Key-ignition switch with safety

start Alternator Syncro High-Low transmission

Special Equipment: Wheel weights Cigarette lighter Drawbar

Automotive-type horn Power-Shift transmission 18.4-26, 10-ply "Logger Special" and Nylon

18.4-34, 10-ply "Logger Special"—w/ Power-Shift only 23.1-26, 10-ply "Logger Special"—w/ Power-Shift only

Winch

Drive: "Live" mechanical; power-actuated clutch and brake. Single lever, hydraulic control.

Line Pull (at 2,200 rpm):

Bare drum......17,300 lb. Line Speed (at 2,200 rpm):

Bare drum......100 fpm

Blade		
Width	Syncro- Range 72 in.	Power- Shift 72 in.
Height	20 in.	20 in.
Lift (max.)	58-1/2 in. 47-1/2 in.	58-1/2 in.
Drop below ground levelDeluxe Regular	12 in. 9-3/4 in.	12 in.
Arch		

Working height (top of horizontal roller to ground level with Horizontal roller......6 in. dia.

Vertical rollers: Through-hardened steel......4-1/2 in. dia.