FEATURES

Four-wheel-drive for fast cycles, high production. 1-1/2-, 1-3/4-, 3-yd. buckets and 1-1/2-yd. 4-in-1. John Deere 6-cylinder Diesel engine develops 94 net horsepower at the flywheel.

Twin-turbine, torque converter with two-range Power-Shift transmission provides 4 speeds forward to 23 mph and 2 reverse speeds to 9 mph without clutching.

13-ft. 10-in. turning radius with articulated power steering. Four-wheel disk-type power brakes. Parking brake. Four-wheel planetary final drives. One lever controls bucket cutting depth, rollback, lift, dump, shakeout, float, and automatic return to dig. 9,000-lb. lifting capacity at full height. 8-ft. 10-in. clearance and 35-1/2-in. reach at full height with bucket dumped at 45 degrees.

Transmission disconnect is brake actuated; directs all available engine power to hydraulics. Oscillating rear axle with differential. Optional No-Spin differential for front axle.

One-spot engine servicing. Vandal-protection for engine, batteries, tools, fuel tank, instruments, hydraulics.

Low-profile loader provides excellent visibility.
Horsepower (at 2,500 engine rpm): Diesel 104
Gross engine flywheel. Net engine flywheel. Engine equipped with fan, air cleaner, water pump, lubricating oil pump, fuel pump, and alternator. 94

*Maximum under SAE standard conditions of 500 ft. altitude and 85°F. temperature.

Operating Information:
Tipping load, straight (SAE) 12,500 lb.
Tipping load, full turn (40 deg.) 25,000 lb.
Lifting capacity, full height 9,000 lb.
Raising time to full height 4.5 sec.
Lowering time (power) 1.2 sec.

Travel Speeds:
Forward:
1. Low range, first and second turbines, 0 to 2.8 mph.
2. Low range, second turbine, 2.8 to 6.8 mph.
3. High range, first and second turbines, 0 to 10.7 mph.
4. High range, second turbine, 10.7 to 23.0 mph.
Reverse:
1. Low range, first and second turbines, 0 to 3.8 mph.
2. Low range, second turbine, 3.8 to 9.0 mph.

Shifting from first and second turbines to second turbine is automatic.

Engine: John Deere, vertical 6-cylinder, valve-in-head, 4-stroke cycle

Bore and stroke 3-7/8 x 4-1/3 in.
Piston displacement 303 cu. in.
Compression ratio 16.3 to 1
Operating speed range 1,500-2,500 rpm
Maximum torque 225 lb.-ft.
Rpm at maximum torque 1,400
N.A.C.C. or A.M.A. horsepower rated for tax purpose 35.8

Main bearings:
Number 7
Diameter 8.118 in.
Length (total) 8.118 in.

Cooling: Pressured with water pump thermostat and fixed bypass
Governor: Integral with injection pump
Fuel injection pump: Opposed plunger, inlet metering, single cylinder distributor type
Air cleaner: Dry type, dual element with restriction indicator
Electrical system: 12-volt with alternator
Starting: 12-volt electric starter

Transmission: Twin-turbine torque converter with a two-range (4 speeds forward, 2 reverse speeds) Power-Shift transmission.

Torque multiplication ratio 5.1 to 1

Differentials:
Front: Standard or optional "No-Spin" type
Rear: Standard

Drive axles: Four-wheel drive with inboard-mounted planetary gears on each wheel. Rear axle oscillates 22-degree total (14-1/2 inches 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: 10x1-1/2-inch expanding shoe type on transmission output shaft. Hand operated with warning light on dash.

Steering: Full power steering. Articulated frame steering by two hydraulic cylinders. Articulation is 80 degrees. Turning radius of 13 feet 10 inches. Curb clearance circle is 31 feet.

Hydraulic systems:
Loader functions system: Live transmission-driven, vane-type pump delivers 45.5 gpm at 2,500 rpm. Constant-volume system.

Steering and brake systems: Includes power steering, power brakes and transmission cooling, Engine-driven, eight-piston, power-on-demand-type pump delivers 28 gpm at 2,500 rpm. Constant-pressure system.

Tires (Sizes and plies):
13-24, 10-ply, grader tread
14-24, 12-ply, grader tread
14-24, 12-ply, rock grader tread
15.5-25, 10-ply loader tread
17.5-25, 12-ply, loader tread

Wheel Treads: Front and rear 70 in.

Dimensions (with 17.5-25 tires):
Height to top of canopy 9 ft. 9 in.
Over-all height to top of muffler 8 ft. 2 in.
Over-all width (17.5-25 tires) 7 ft. 4 in.
Over-all length 19 ft.
Wheelbase 7 ft. 10-1/2 in.
Ground clearance 14.5 in.

Buckets:
1-1/2-cu. yd. 1,200 lb. 86 in.
1-3/4-cu. yd. 1,320 lb. 92 in.
3-cu. yd. 1,890 lb. 96 in.
Drott 1-1/2-yd. 4-in-1 2,050 lb. 97 in.

Weight:
Operating (without canopy, approx.) 16,500 lb.

Cylinders:
US. Measure:
Cooling system 7-1/2 gal.
Engine lubrication, including filter 10 qt.
Transmission case and filters 9-3/4 gal.

Frame:
Regular 4-3/4 gal.
"No-Spin" optional 4-1/4 gal.
Rear differential 4-1/4 gal.
Loader hydraulic sump (excluding lines and cylinders) 12 gal.

Base Equipment:
Transmission oil temperature gauge
Transmission oil pressure gauge
Fuel gauge
Electric hour meter
Ammeter
Coolant temperature gauge
Engine oil temperature gauge
Key-ignition switch with safety start
Cigarette lighter
Parking brake warning light
Lights
Instrument panel cover with lock
12-volt starter and electrical system

Special Equipment:
"No-Spin" differential for front axle
Protective roll-frame with canopy (includes seat belt)
Cab (fits roll frame)
Front and rear work lights
Flashings and turn signal lights
Triple-spool valve
Bucket teeth

Optional Equipment:
55 amp. alternator
Transistorized voltage regulator
Two 95 amp. batteries
Power steering
Fuel filter
Two stage dry-type air cleaner with safety element and restriction indicator
Foot throttle
Adjustable cushioned seat
Engine side shields
Front fenders
Vertical muffler
Front and rear hand grips
Tool tote-tray
Antifreeze
Automotive-type horn

Other Equipment:
Ether starting aid (Diesel)
Engine oil heater, 240 watt
Engine coolant heater
Pre-cleaner
Special tools
Fixed drawbar, clevis type
Side counterweights
Splash guards for fenders