

ENGINE

Make & Model.....	Cummins B3.3
Displacement.....	201 cu. in. (3.3 liters)
Number of Cylinders.....	4
Type of Engine.....	4 Stroke, naturally aspirated
Fuel.....	Diesel
Cooling System.....	Liquid
SAE Net Horsepower @ 2500 RPM.....	80 hp (60 kw)
Gross Operating Weight to Horsepower Ratio.....	106 lbs./1 HP

Note: The net power is rated at SAE standard ambient temperature and barometric conditions 77° F (25° C) and 29.61 in Hg. (100 kPa)

Air Cleaner.....	Two element dry type with pre-cleaner
Electrical System.....	12 Volt system protected by fused breakers 2 Batteries - BCI Group Size 22 F Cold cranking, 810 AMPS. @ 0° F (-18° C)
Governor Type.....	Diesel injection pump control

HYDRAULIC SYSTEM

Lift Cylinders, Bore & Strokes.....	3 in. x 26 in. (76.22 mm x 660.4 mm)
Bucket Cylinder, Bore & Stroke.....	5 in. x 10 in. (127 mm x 254 mm)
Pump Description.....	Gear type
Drive Pump Capacity @ 2500 RPM.....	37 GPM (140 lit./min.)
Steering, Boom, Bucket Pump Capacity.....	26 GPM (98 lit./min) @ 2500 RPM
Priority Flow to Steering.....	Flow proportional to steering rate
Control Valve.....	Standard - 3 spool sectional
Auxiliary Hydraulics.....	Standard 3rd valve for additional unitractor attachments. Power beyond available
Filtration.....	7 micron spin-on
Relief Valve Setting.....	Drive train - 6000 PSI (41340 kPa) Boom and bucket - 2250 PSI (15511 kPa) Steering - 2000 PSI (1378 kPa)
Hydraulic Cycle Time @ 2500 RPM, Standard Bucket:	
Raise.....	4.0 seconds
Bucket Dump.....	2.2 seconds
Bucket Rollback.....	1.3 seconds
Lower.....	4.3 seconds
Total Cycle.....	11.8 seconds

AXLES & HUBS

Type.....	Front - differential, planetary outboard hubs, Sealed brakes
Rear.....	differential, planetary outboard hubs
Description.....	Ring gear and pinion with planetary hub
Static Load Rating.....	22,000 lbs. (Refer to performance data for operating capacity)
Oscillation, frame.....	22°

TRANSMISSION

Type.....	Hydrostatic 4-wheel drive, forward & reverse control with low and high shift on the go
Control.....	Foot control engine throttle Hand control forward and reverse Electronic high and low shift
Description.....	Variable displacement piston type pump 37 GPM @ 5600 PSI 2-speed piston type motor Automatic load sensing control - Similar to torque converter
Travel Speeds @ 2500 RPM with 14 x 17.5 tires	
Low Range, Forward or Reverse.....	0-6.5 MPH (0-10.4 Km/h)
High Range, Forward or Reverse.....	0-13 MPH (0-20.9 Km/h)

STEERING

Type.....	Articulation
Description.....	Center pivot articulating with hydraulic power steering. Front and rear tires always track
Steering Angle (Left or Right).....	40°
Minimum Turning Radius, Inside.....	62 in. (1574.8 mm)
Steering Cylinders, Bore & Stroke.....	3 in. x 8 in. (76.2 mm x 203.2 mm)

BRAKES

Type.....	Internal sealed wet disc
Description.....	SERVICE – Sealed wet disc type in front differential, (hydraulically actuated) PARKING – Spring applied hydraulically released – SAHR
Dynamic Braking.....	Hydrostatic drivetrain system

SERVICE CAPACITIES

Radiator.....	24 Quarts (22.8 lit.)
Fuel Tank.....	24 U.S. Gal. (90.84 lit.)
Hydraulic System	
Reservoir Only.....	16.0 U.S. Gal. (60.57 lit.)
Complete System.....	20.0 U.S. Gal. (75.71 lit.)
Engine Crankcase with Filter.....	9.0 Quarts (8.5 lit.)
Differentials (Each).....	6.5 Pints (3.07 lit.)
Planetary Hub (Each).....	1.44 Pints (0.54 lit.)
Transmission.....	6 Pints (2.7 lit.)