

OPERATING SPECIFICATIONS

ENGINE

Make/Model/Fuel Type	Cummins/QSM11/Diesel
Type	4-cycle, watercooled, direct injection type with turbo charger and air-cooled intercooler
Net flywheel horsepower	275HP/2100 RPM
Maximum torque	919 ft/lb @ 1400 RPM
Number of cylinders	6
Bore and stroke	4.921" x 5.787" (125mm x 147.1mm)
Total displacement	660 in ³ (10,830 cm ³)
Alternator	AC24V-1800W (75 amp)
Starting motor	24V-7.3kw (9.8HP)
Battery	12V-150AH, 2 units
Governor	All-speed, electrical type

TORQUE CONVERTER AND TRANSMISSION

Torque converter	3 elements, single stage, 1-phase
Torque stall ratio	3.16:1
Main clutches	Wet hydraulic, multi-disk type
Cooling method	Forced circulation type
Transmission	Full powershift, 4 forward, 4 reverse with automatic mode (2nd-4th) with downshift switch for 2nd-1st downshifting.
Speeds Forward	1st: 4.4 MPH (7.1 km/hr) 2nd: 7.7 MPH (12.4 km/hr) 3rd: 13.5 MPH (21.8 km/hr) 4th: 21.1 MPH (34.0 km/hr)
Speeds Reverse	1st: 4.8 MPH (7.8 km/hr) 2nd: 8.3 MPH (13.4 km/hr) 3rd: 14.6 MPH (23.5 km/hr) 4th: 21.7 MPH (35.0 km/hr)

SERVICE REFILL CAPACITY

LOCATION	CAPACITY:	Gallons	Liters
Engine (coolant)		15.9	(60)
Fuel tank (diesel fuel)		87.2	(330)
Engine oil (oil pan)		9.0	(34)
Front axle (gear oil)		19.5	(74)
Rear axle (gear oil)		21.1	(80)
Torque converter and transmission (engine oil)		15.9	(60)
Hydraulic system (including tank hydraulic oil)		68.7	(260)

HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering	
Steering mechanism	Hydraulic power steering unit, pilot operated type	
Lift (boom) cylinder	Two (2) double-acting piston type: 6.69" x 34.02" (170mm x 864mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 5.51" x 24.57" (140mm x 624mm)	
Steering cylinder	Two (2) double-acting piston type: 3.94" x 17.72" (100mm x 450mm)	
Steering oil pump	Gear type: 59.7 GPM @ 2100 RPM (226 LPM @ 2100 RPM)	
Main oil pump	Gear type: 37.8 GPM @ 2100 RPM (143 LPM @ 2100 RPM)	
Pilot oil pump	Gear type: 27.2 GPM @ 2100 RPM (103 LPM @ 2100 RPM)	
Relief valve set pressure	Loading	3000 psi (210 kg/cm ²)
	Steering	3000 psi (210 kg/cm ²)
HYDRAULIC CYCLE TIME*		
Lifting time (at full load)	6.1 sec.	
Lowering time (empty)	3.0 sec.	
Bucket dumping time	1.6 sec.	
TOTAL	10.7 sec.	

* Measured in accordance with SAE J732C

AXLE SYSTEM

Drive system	4-wheel drive	
Front and rear axle	Full floating banjo type	
Tires	Standard	26.5 x 25-20PR (L-3)
	Optional	26.5 x 25-20PR (L-2) (L-4) (L-5) 26.5 x R25 (Radial)
Reduction and differential gear	Spiral bevel/gear, 1 stage reduction torque proportioning	
Final reduction gear	Outboard mounted, internal planetary gear	
Oscillation angle	±12° (total 24°)	

BRAKE SYSTEM

Service brakes	4 wheel, adjustment free, wet multiple disk brake. Controlled by full hydraulic system Dual circuit.
Parking/Emergency brake	Spring applied oil released type, located in front driveline.