

OPERATING SPECIFICATIONS

ENGINE	
Make/Model/Fuel Type	Cummins/6CTAA8.3/Diesel
Type	4-cycle, watercooled, in-line direct injection type with turbo charger and air-cooled intercooler
Horsepower rating at flywheel	208HP/2200 RPM
Maximum torque	704 ft/lb (97.3 kgm)/1500 RPM
Number of cylinders	6
Bore and stroke	4.49" x 5.31" (114mm x 134.9mm)
Total displacement	504 in ³ (8260 cm ³)
Alternator	AC24V-1.68kw (70amp)
Starting motor	24V-7.8kw (10.5HP)
Battery	12V-150AH, 2 units (cold cranking amps)
Governor	All-speed, mechanical type

TORQUE CONVERTER AND TRANSMISSION	
Torque converter	3 elements, single stage
Torque stall ratio	3.15:1
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: 4.7 MPH (7.5 km/hr) 2nd: 7.8 MPH (12.6 km/hr) 3rd: 13.8 MPH (22.2 km/hr) 4th: 22.9 MPH (36.9 km/hr)
Speeds	Reverse
	1st: 4.8 MPH (7.7 km/hr) 2nd: 8.0 MPH (12.8 km/hr) 3rd: 14.1 MPH (22.7 km/hr) 4th: 23.2 MPH (37.3 km/hr)

SERVICE REFILL CAPACITY			
LOCATION	CAPACITY:	Gallons	Liters
Engine (coolant)		15.6	(58.9)
Fuel tank (diesel fuel)		63.4	(240.0)
Engine oil (oil pan)		4.99	(18.9)
Front axle (gear oil)		14.5	(55.0)
Rear axle (gear oil)		14.5	(55.0)
Torque converter and transmission (engine oil)		11.9	(45.0)
Hydraulic system including tank (hydraulic oil)		42.3	(160)

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: 5.9" x 31.0" (150mm x 788mm)	
Tilt (bucket) cylinder	One (1) double-acting piston type: 7.1" x 21" (180mm x 533mm)	
Steering cylinder	Two (2) double-acting piston type: 3.1" x 15.9" (80mm x 405mm)	
Steering oil pump	Gear type: 47 GPM @ 2200 RPM (178 LPM @ 2200 RPM)	
Main oil pump	Gear type: 17 GPM @ 2200 RPM (65 LPM @ 2200 RPM)	
Pilot oil pump	Gear type: 21 GPM @ 2200 RPM (80 LPM @ 2200 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)	6.2 sec.	
Lowering time (empty)	3.4 sec.	
Bucket dumping time	1.4 sec.	
TOTAL	11.0 sec.	

* Measured in accordance with SAE J732C

AXLE SYSTEM		
Drive system	4-wheel drive	
Front and rear axle	Full floating banjo type	
Tires	Standard	23.5 x 25-16PR (L-3)
	Optional	20.5 x 25-16PR (L-2) (L-3) 23.5 x 25-16PR (L-2)
Reduction and differential gear	Spiral bevel/gear, 1 stage reduction, torque proportioning type	
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 release type, located in front driveline. Meets MSHA requirements