

ENGINE

Make/Model/Fuel Type	Cummins QSX15 (Tier 2) Diesel
Type	4-cycle, watercooled, inline direct injection type with turbocharged and air cooled intercooler
Net flywheel horsepower	340HP/2100 RPM (255kw/2100RPM)
Maximum torque	1060 ft/lb @ 1400 RPM
Number of cylinders	6
Bore and stroke	5.4" x 6.7" (136.9mm x 170.2mm)
Total displacement	917 in ³ (15,032 cm ³)
Alternator	AC24V-1800W (75 amp)
Starting motor	24V-9.0kw (12.1HP)
Battery	12V-200AH, 2 units, cold cranking amps
Governor	All-speed, electrical type

TORQUE CONVERTER AND TRANSMISSION

Torque converter	3 elements, single stage, 1-phase
Torque stall ratio	3.01:1
Main clutches	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Transmission	Full powershift, 4 forward, 3 reverse with automatic mode (2nd-4th) with downshift switch for 2nd-1st downshifting. Autobrake protects transmission from overspeeding
Speeds	Forward
	1st: 4.8 MPH (7.7km/hr) 2nd: 8.8 MPH (14.2km/hr) 3rd: 14.2 MPH (22.9 km/hr) 4th: 21.1 MPH (34.0 km/hr)
Speeds	Reverse
	1st: 5.1 MPH (8.2 km/hr) 2nd: 9.3 MPH (15.0 km/hr) 3rd: 14.9 MPH (24.0 km/hr)

SERVICE REFILL CAPACITY

LOCATION	Gallons	Liters
Engine (coolant)	25.4	(96)
Fuel tank (diesel fuel)	112.3	(425)
Engine oil (oil pan)	11.9	(45)
Front axle (gear oil)	26.4	(100)
Rear axle (gear oil)	26.4	(100)
Torque converter and transmission (engine oil)	14.5	(55)
Hydraulic system	70	(265)

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: 7.48" x 37.52" (190mm x 953mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 6.3" x 23.82" (160mm x 605mm)	
Steering cylinder	Two (2) double-acting piston type: 3.54" x 23.62" (90mm x 600mm)	
Steering oil pump	Gear type: 66.1 GPM @ 2100 RPM (250 LPM @ 2100 RPM)	
Main oil pump	Gear type: 53.4 GPM @ 2100 RPM (202 LPM @ 2100 RPM)	
Pilot oil pump	Gear type: 43.3 GPM @ 2100 RPM (164 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)	6.7 sec.	
Lowering time (empty)	4.0 sec.	
Bucket dumping time	1.5 sec.	
TOTAL	12.2 sec.	

* Measured in accordance with SAE J732C

AXLE SYSTEM

Drive system	4-wheel drive	
Front and rear axle	Full floating banjo type	
Tires	Standard	29.5 x 25-22PR (L-3)
	Optional	29.5 x 25-22PR (L-4) (L-5) 26.5 x 25-24PR (L-3) (L-4) (L-5) 26.5-R25
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 disc brake, controlled by full hydraulic system. Dual circuit
Parking/Emergency brake	Spring applied oil pressure released type and oil applied accumulator type. Located in front drive line.