

ENGINE	
Make/Model/Fuel Type	Cummins QSK19
Type	4-cycle, water-cooled, in-line, direct injection type with turbocharger and air-cooled intercooler
Net flywheel horsepower	480HP/2000 RPM
Maximum torque	1386 ft/lb @ 1300 RPM
Number of cylinders	6
Bore and stroke	6.25" x 6.25" (159mm x 159mm)
Total displacement	1150 in ³ (18,853 cm ³)
Alternator	AC24V-1800W (75 amp)
Starting motor	24V-8.9kw (12HP)
Battery	12V-200AH, 2 units
Governor	All-speed, electrical type

TORQUE CONVERTER AND TRANSMISSION	
Torque converter	3 element, single stage, 1-phase
Torque stall ratio	2.75
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: 4.3 MPH (7.0km/hr) 2nd: 8.1 MPH (13.0km/hr) 3rd: 13.2 MPH (21.3 km/hr) 4th: 21.8 MPH (35.1 km/hr)
Speeds Reverse	1st: 4.7 MPH (7.5 km/hr) 2nd: 8.6 MPH (13.9 km/hr) 3rd: 14.1 MPH (22.7 km/hr)

SERVICE REFILL CAPACITY		
LOCATION	Gallons	Liters
Engine (coolant)	32	(122)
Fuel tank (diesel fuel)	177	(670)
Engine (oil pan)	17	(66)
Front axle (gear oil)	48	(180)
Rear axle (gear oil)	48	(180)
Torque converter and transmission (engine oil)	22.5	(85)
Hydraulic system including tank (hydraulic oil)	125.5	(475)

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: 8 ⁷ / ₈ " x 3' 8 ⁹ / ₁₆ " (225mm x 113.2mm)	
Tilt (bucket) cylinder	Two (2) double-acting piston type: 7 ¹ / ₂ " x 2' 6 ³ / ₁₆ " (190mm x 767mm)	
Steering cylinder	Two (2) double-acting piston type: 4 ⁵ / ₁₆ " x 2' 4 ³ / ₈ " (110mm x 720mm)	
Steering oil pump (double section)	Gear type: 108.8 GPM @ 2000 RPM (412 LPM @ 2000 RPM)	
Main oil pump	Gear type: 48.1 GPM @ 2000 RPM (182 LPM @ 2000 RPM)	
Pilot/Brake oil pump	Gear type: 51.8 GPM @ 2000 RPM (196 LPM @ 2000 RPM)	
Relief set pressure	Loading	3000 psi (210 kg/cm ²)
	Steering	3000 psi (210 kg/cm ²)
HYDRAULIC CYCLE TIME*		
Lifting time (at full load)	8.4 sec.	
Lowering time (empty)	4.7 sec.	
Bucket dumping time	2.1 sec.	
TOTAL	15.2 sec.	

* Measured in accordance with SAE J732C

AXLE SYSTEM		
Drive system	4-wheel drive	
Front and rear axle	Full floating banjo type	
Tires	Standard	35/65-33-24PR (L-4)
	Optional	35/65-33-24PR (L-5) 35/65-33-30PR (L-4) (L-5), 35/65-R33
Reduction & differential gear	Spiral bevel gear, 1 stage reduction	
Final reduction gear	Outboard mounted, internal planetary gear	
Oscillation angle	±13° (total 26°)	

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 released type, located in front driveline.