

4. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSM 11-C
Type	4-cycle turbocharged, charge air cooled diesel engine
Control type	Electronic control
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	125 × 147mm(4.92" × 5.79")
Piston displacement	10800cc(659cu in)
Compression ratio	16.3
Rated gross horse power	340ps at 2100rpm
Maximum gross torque at 1400rpm	174kgf · m(1255lbf · ft)
Engine oil quantity	38 (10 U.S. gal)
Wet weight	984kg(2170lb)
High idling speed	2310 ± 50rpm
Low idling speed	800 ± 50rpm
Rated fuel consumption	147.8g/ps · hr
Starting motor	Delco Remy 42MT(24V)
Alternator	Delco Remy 22SI(24V-70Amp)
Battery	2 × 12V × 200Ah

2) MAIN PUMP(+BRAKE PUMP)

Item	Specification	
	Main pump	Brake pump
Type	Fixed displacement double vane pump	
Capacity	98.3cc/rev	15.9cc/rev
Maximum operating pressure	210kgf/cm ² (2987psi)	150kgf/cm ² (2130psi)
Rated oil quantity	193 l /min(51U.S.gpm)	31.3 l /min(8.3U.S.gpm)
Rated speed	2100rpm	

3) STEERING PUMP

Item	Specification
Type	Fixed displacement single vane pump
Capacity	136cc/rev
Maximum operating pressure	210kgf/cm ² (2987psi)
Rated oil quantity	280 l /min(74U.S.gpm)
Rated speed	2100rpm

4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
Main relief valve pressure	210kgf/cm ² (2987psi)
Overload relief valve pressure(Boom)	250kgf/cm ² (3556psi)
Overload relief valve pressure(Bucket)	230kgf/cm ² (3271psi)

5) REMOTE CONTROL VALVE

Item	Specification	
Type	Pressure reducing type	
Operating	Minimum	5.8kgf/cm ² (82.5psi)
	Maximum	19kgf/cm ² (270psi)
Single operation stroke	Lever	70mm(2.8in)

6) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅200 × ∅110 × 863mm
Bucket cylinder	Bore dia × Rod dia × Stroke	∅160 × ∅80 × 580mm
Steering cylinder	Bore dia × Rod dia × Stroke	∅110 × ∅55 × 480mm

7) DYNAMIC POWER TRANSMISSION DEVICES

Item		Specification
Torque converter	Model	ZF 40H005
	Type	Single-stage, single-phase
Transmission	Model	ZF 4WG310
	Type	Full-automatic power shift
	Gear shift	Forward fourth gear, reverse third gear
	Adjustment	Electrical single lever type, kick-down system, Automatic kick down from 2nd to 1st gear
Axle	Drive devices	4-wheel drive
	Front	Front fixed location
	Rear	Oscillation 13° of center pin-loaded
Wheels	Tires	29.5-25, 22PR(L3)
Brakes	Travel	Four-wheel, wet-disc type, full hydraulic
	Parking	Spring applied, hydraulic released brake on front axle
Steering	Type	Full hydraulic, articulated
	Steering angle	40° to both right and left angle, respectively