

4. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSC8.3-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 x stroke	114 x 135mm(4.49" x 5.31")
Piston displacement	8270
Compression ratio	17.1
Rated gross horse power	280ps at 2200rpm
Maximum gross torque at 1400rpm	138kgf · m(1000lbf · ft)
Engine oil quantity	20 (5.3 U.S. gal)
Wet weight	723kg(1594lb)
High idling speed	2340 ± 50rpm
Low idling speed	900 ± 50rpm
Rated fuel consumption	156g/ps · hr
Starting motor	Nippondenso(24V-7.5kW)
Alternator	Delco Remy 22SI(24V-70Amp)
Battery	2 x 12V x 200Ah

2) MAIN PUMP

Item	Specification
Type	Fixed displacement double vane pump
Capacity	120.6+79.3cc/rev
Maximum operating pressure	210kgf/cm ² (2990psi)
Rated oil quantity	431 /min(114U.S.gpm)
Rated speed	2200rpm

3) FAN + BRAKE PUMP

Item	Specification	
	Fan	Brake
Type	Fixed displacement tandem gear pump	
Capacity	22.9cc/rev	11.9cc/rev
Maximum operating pressure	180kgf/cm ² (2560psi)	
Rated oil quantity	55 /min(14.5U.S.gpm)	29 /min(7.7 U.S.gpm)
Rated speed	2200rpm	

4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
Main relief valve pressure	210kgf/cm ² (2990psi)
Overload relief valve pressure	240kgf/cm ² (3420psi)

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 x Rod dia x Stroke	Ø 180 x Ø 100 x 765mm
Bucket cylinder	Bore dia x Rod dia x Stroke	Ø 200 x Ø 100 x 570mm
Steering cylinder	Bore dia x Rod dia x Stroke	Ø 100 x Ø 50 x 480mm

7) DYNAMIC POWER TRANSMISSION DEVICES

Item		Specification	
Transmission	Model	ZF 4WG260-IV	
	Type	Converter	Single-stage, single-phase
		Transmission	Full-automatic power shift
	Gear shift	Forward fourth gear, reverse third gear	
	Adjustment	Electrical single lever type, kick-down system	
Axle	Drive devices	4-wheel drive	
	Front	Front fixed location	
	Rear	Oscillation $\pm 13^\circ$ of center pin-loaded	
	Tires	26.5-25, 20PR(L3)	
Wheels	Travel	Four-wheel, wet-disc type, full hydraulic	
Brakes	Parking	Spring applied, hydraulic released brake on front axle	
	Type	Full hydraulic, articulated	
Steering	Steering angle	40° to both right and left angle, respectively	