4. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSB6.7
Type	4-cycle turbocharged and 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	104×132mm(4.1"×5.2")
Piston displacement	6730cc(410cu in)
Compression ratio	17.2 : 1
Rated gross horse power	173hp at 2100rpm
Maximum gross torque at 1500rpm	83kgf · m(600lbf · ft)
Engine oil quantity	16 ℓ (4.2 U.S. gal)
Wet weight	485kg(1069lb)
High idling speed	2230 ± 50rpm
Low idling speed	800± 50rpm
Rated fuel consumption	252g/kW · hr
Starting motor	Nippondenso 228000-7902 (24V-3.7kW)
Alternator	Delco Remy 24SI(24V-70Amp)
Battery	2×12V×160Ah

2) MAIN PUMP

Item	Specification
Type	Fixed displacement double helical gear pump
Capacity	56+56cc/rev
Maximum operating pressure	210kgf/cm^2(2990psi)
Rated oil quantity	230 ℓ /min(60.8U.S.gpm / 50.6U.K.gpm)
Rated speed	2100rpm

3) FAN + BRAKE PUMP

Item	Specification	
	Fan	Brake
Type	Fixed displacement tandern gear pump	
Capacity	19cc/rev	11.9cc/rev
Maximum operating pressure	180kgf/cm^2(2560psi)	
Rated oil quantity	39 ℓ /min(10.3U.S.gpm)	24 ℓ /min(6.3 U.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(2990psi)
Overload relief valve pressure	240kgf/cm^2(3410psi)

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	ø 140 × ø 75 × 750mm
Bucket cylinder	Bore dia × Rod dia × Stroke	ø 160 × ø 80 × 475mm
Steering cylinder	Bore dia × Rod dia × Stroke	ø 70 × ø 45 × 436mm

7) DYNAMIC POWER TRANSMISSION DEVICES

Item			Specification
Transmission	Model		4WG190
	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 ±13° of center pin-loaded
Wheels	Tires		20.5-25, 16PR(L3)
Brakes	Travel		Four-wheel, wet-disc type, full hydraulic
	Parking		Spring applied, hydraulic released brake on transmission
Steering	Type		Full hydraulic, articulated
	Steering angle		40° to both right and left angle, respectively