

## 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	107 × 124 mm (4.2" × 4.9")
Piston displacement	6730 cc (410cu in)
Compression ratio	17.2 : 1
Rated horse power (Net)	170 hp at 2100 rpm
Maximum torque at 1500 rpm (Net)	83 kgf · m (600 lbf · ft)
Engine oil quantity	18 l (4.8 U.S. gal)
Wet weight	485 kg(1069 lb)
High idling speed	2230 ± 50 rpm
Low idling speed	800 ± 25 rpm
Rated fuel consumption	252 g/kW · hr
Starting motor	Nippondenso 228000-7902 (24V-3.7kW)
Alternator	Delco Remy 24SI (24V-70Amp)
Battery	2 × 12V × 130Ah

## 2) MAIN PUMP

Item	Specification
Type	Variable piston pump
Capacity	50+38 cc/rev
Maximum operating pressure	280 kgf/cm <sup>2</sup> (3980 psi)
Rated oil quantity	185 l /min (48.8 U.S.gpm / 40.6 U.K.gpm)
Rated speed	2100 rpm

## 3) FAN + BRAKE PUMP

Item	Specification	
	Fan	Brake
Type	Fixed displacement tandem gear pump	
Capacity	19.4 cc/rev	11.9 cc/rev
Maximum operating pressure	180 kgf/cm <sup>2</sup> (2560 psi)	
Rated oil quantity	41 l /min (10.8 U.S.gpm)	25 l /min (6.6 U.S.gpm)
Rated speed	2100 rpm	

## 4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
System pressure	280 kgf/cm <sup>2</sup> (3980 psi)
Overload relief valve pressure	340 kgf/cm <sup>2</sup> (4840 psi)

## 5) REMOTE CONTROL VALVE

Item	Specification	
Type	Pressure reducing type	
Operating pressure	Minimum	6.5 kgf/cm <sup>2</sup> (92.4 psi)
	Maximum	22 kgf/cm <sup>2</sup> (312.9 psi)
Single operation stroke	Lever	80 mm (3.4 in)

## 6) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 70 × 785 mm
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 140 × ∅ 75 × 485 mm
Steering cylinder	Bore dia × Rod dia × Stroke	∅ 65 × ∅ 45 × 436 mm

## 7) DYNAMIC POWER TRANSMISSION DEVICES

Item		Specification	
Transmission	Model	4WG190	
	Type	Converter	Single-stage, single-phase
		Transmission	Full-automatic power shift
	Converter stall ratio	2.121 : 1	
	Gear shift	Forward fourth gear, reverse third gear	
	Control	Electrical single lever type, kick-down system	
	Pump rated flow	105 ℓ /min (27.7 U.S.gpm) at 2000 rpm	
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	