

## 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 <sup>2</sup> (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 tandem gear pump	
Capacity	19cc/rev	11.9cc/rev
Maximum operating pressure	180kgf/cm <sup>2</sup> (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 <sup>2</sup> (2990psi)
Overload relief valve pressure	240kgf/cm <sup>2</sup> (3410psi)

## 5) REMOTE CONTROL VALVE

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

## 6) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 140 × ∅ 75 × 750mm
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 65 × 755mm
Steering cylinder	Bore dia × Rod dia × Stroke	∅ 70 × ∅ 45 × 436mm
Quick coupler cylinder	Bore dia × Rod dia × Stroke	∅ 50 × ∅ 25 × 105mm

## 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 $\pm 13^\circ$ 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	