

## 4. SPECIFICATION FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Model	Cummins B5.9-C
Type	4-cycle turbocharged diesel engine
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	102 x 120mm(4.02" x 4.72")
Piston displacement	5880cc(352.8cu in)
Compression ratio	17.5 : 1
Rated gross horse power	150ps at 2200rpm
Maximum gross torque at 1600rpm	61kgf · m(441lb · ft)
Engine oil quantity	16.4 (4.3 U.S. gal)
Dry weight	400kg(881.8lb)
High idling speed	2370 ± 50rpm
Low idling speed	950 ± 50rpm
Rated fuel consumption	172g/ps · hr
Starting motor	Delco Remy 37MT(24V)
Alternator	DAC HC60(24V-60AMP)
Battery	2 x 12V x 160Ah

### 2) MAIN PUMP

Item	Specification
Type	Fixed displacement tandem gear pump
Capacity	2 x 41.0cc/rev
Maximum operating pressure	210kg/cm <sup>2</sup> (3000psi)
Rated oil quantity	2 x 91 /min (24.0 U.S. gpm/20.0 U.K. gpm)
Rated speed	2300rpm

### 3) BRAKE PUMP

Item		Specification
Type		Fixed displacement tandem gear pump
Capacity		8.4cc/rev
Maximum operating pressure		150kg/cm <sup>2</sup> (2130psi)
Rated oil quantity		18 /min (4.75U.S. gpm/4.0U.K. gpm)

### 4) MAIN CONTROL VALVE

Item		Specification
Type		2 spool
Operating method		Hydraulic pilot assist
Main relief valve pressure		210kg/cm <sup>2</sup> (3000psi)
Overload relief valve pressure		230~250kg/cm <sup>2</sup> (3270~3560psi)

### 5) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating	Minimum	5.8kg/cm <sup>2</sup> (82.5psi)
	Maximum	30kg/cm <sup>2</sup> (427psi)
Single operation stroke	Lever	75mm(3.0in)

### 6) CYLINDER

Item		Specification
Boom cylinder	Bore dia x Rod dia x Stroke	Ø 140 x Ø 75 x 695mm
Bucket cylinder	Bore dia x Rod dia x Stroke	Ø 150 x Ø 80 x 475mm
Steering cylinder	Bore dia x Rod dia x Stroke	Ø 70 x Ø 40 x 430mm

## 7) DYNAMIC POWER TRANSMISSION DEVICES

Item		Specification
Torque converter	Model	Clark HR 24423
	Type	Single-stage, single-phase
Transmission	Type	Semi-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 26° 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 drum brake on T/M output shaft.
Steering	Type	Full hydraulic, articulated
	Steering angle	40° to both right and left angle, respectively