

4. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSL
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 × stroke	114 × 145 mm(4.49" × 5.71")
Piston displacement	8900cc (543 cu in)
Compression ratio	17.8 : 1
Rated gross horse power	284 ps at 2000 rpm
Maximum gross torque at 1400rpm	148 kgf · m (1070 lbf · ft)
Engine oil quantity	23 ℓ (6.1 U.S. gal)
Wet weight	738 kg (1627 lb)
High idling speed	2030 ± 50 rpm
Low idling speed	800 ± 50 rpm
Rated fuel consumption	178 g/ps · hr
Starting motor	Nippondenso (24 V - 7.5kW)
Alternator	Delco Remy 22SI (24 V - 70Amp)
Battery	2 × 12V × 200Ah

2) MAIN PUMP

Item	Specification	
	Steering	Loader
Type	Variable tandem piston pump	
Capacity	110 cc/rev	61 cc/rev
Maximum operating pressure	280 kgf/cm ² (3980 psi)	
Rated oil quantity	220 l /min (58.1 U.S.gpm)	122 l /min (32.2 U.S.gpm)
Rated speed	2000 rpm	

3) FAN + BRAKE PUMP

Item	Specification	
	Fan	Brake
Type	Fixed displacement tandem gear pump	
Capacity	22.4 cc/rev	11.9 cc/rev
Maximum operating pressure	200 kgf/cm ² (2850 psi)	
Rated oil quantity	44.8 l /min (11.8 U.S.gpm)	23.8 l /min (6.3 U.S.gpm)
Rated speed	2000 rpm	

4) MAIN CONTROL VALVE

Item	Specification
Type	2 spool
Operating method	Hydraulic pilot assist
Main relief valve pressure	280 kgf/cm ² (3980 psi)
Overload relief valve pressure	340 kgf/cm ² (4840 psi)
Overload relief valve pressure (dump)	310 kgf/cm ² (4410 psi)

5) REMOTE CONTROL VALVE

Item	Specification	
Type	Pressure reducing type	
Operating pressure	Minimum	5 kgf/cm ² (71 psi)
	Maximum	30 kgf/cm ² (427 psi)
Single operation angle	degree	17

6) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 160 × ∅ 95 × 765 mm
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 180 × ∅ 95 × 570 mm
Steering cylinder	Bore dia × Rod dia × Stroke	∅ 95 × ∅ 50 × 480 mm

7) DYNAMIC POWER TRANSMISSION DEVICES

Item		Specification	
Transmission	Model	ZF 4WG260	
	Type	Converter	Single-stage, single-phase
		Transmission	Full-automatic power shift
	Converter stall ratio	2.09 : 1	
	Gear shift	Forward fourth gear, reverse third gear	
	Control	Electrical single lever type, kick-down system Automatic kick down from 2nd to 1st gear FNR switch on joystick lever (option)	
	Pump rated flow	135 ℓ /min (35.7 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	26.5-25, 20PR (L3)	
Brakes	Travel	Four-wheel, wet-disc type, full hydraulic	
	Parking	Spring applied, hydraulic released brake	
Steering	Type	Full hydraulic, articulated	
	Steering angle	40° to both right and left angle, respectively	