

4. SPECIFICATION FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins NTA 855-C *Cummins N14-C
Type	4-cycle turbocharged, after cooled 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	140 x 152mm(5.51" x 5.98")
Piston displacement	14010cc(854.9cu in)
Compression ratio	14.5 : 1
Rated gross horse power	340ps at 2100rpm
Maximum gross torque at 1400rpm	149kgf · m(1078lb · ft) *156kgf · m
Engine oil quantity	40 (10.6 U.S. gal)
Dry weight	1303kg(2872.6lb) *1322kg
High idling speed	2260 ± 50rpm
Low idling speed	800 ± 50rpm
Rated fuel consumption	158.8g/ps · hr *160.3g/ps · hr
Starting motor	Delco Remy 42MT(24V)
Alternator	DAC HC60(24V-60AMP)
Battery	2 x 12V x 200Ah

* : Low emission engine

2) MAIN PUMP

Item		Specification
Type		Fixed displacement tandem gear pump
Capacity		100cc/rev
Maximum operating pressure		210kgf/cm ² (2987psi)
Rated oil quantity		200 /min(53U.S.gpm)
Rated speed		2100rpm

3) BRAKE PUMP

Item		Specification
Type		Fixed displacement tandem gear pump
Capacity		16cc/rev
Maximum operating pressure		150kgf/cm ² (2130psi)
Rated oil quantity		31.9 /min(8.4U.S.gpm)

4) MAIN CONTROL VALVE

Item		Specification
Type		2 spool
Operating method		Hydraulic pilot assist
Main relief valve pressure		210kgf/cm ² (2987psi)
Overload relief valve pressure(Boom)		250kgf/cm ² (3556psi)
Overload relief valve pressure(Bucket)		230kgf/cm ² (3271psi)

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 x Rod dia x Stroke	Ø200 x Ø110 x 863mm
Bucket cylinder	Bore dia x Rod dia x Stroke	Ø160 x Ø80 x 580mm
Steering cylinder	Bore dia x Rod dia x Stroke	Ø110 x Ø55 x 480mm

7) DYNAMIC POWER TRANSMISSION DEVICES

Item		Specification
Torque converter	Model	Clark 8602
	Type	Single-stage, single-phase
Transmission	Model	Clark 6421
	Type	Semi-automatic power shift
	Gear shift	Forward fourth gear, reverse fourth 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	29.5-25, 22PR(L3)
Brakes	Travel	Four-wheel, wet-disc type, full hydraulic
	Parking	Spring applied, hydraulic released brake on front axle
Steering	Type	Full hydraulic, articulated
	Steering angle	40° to both right and left angle, respectively