

SPECIFICATIONS

MITSUBISHI HIGH SPEED DIESEL ENGINE
MODEL MITSUBISHI S4L2-61SD

For SDMO

(GENERATOR)

**FOR RETURN
AFTER APPROVAL**



DATE Mar.14.1997

MITSUBISHI HEAVY INDUSTRIES, LTD.

SDMO INDUSTRIES

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CHG	DATE	APPROVED	CHECKED	DRAWN
△	2002.11. 1	<i>[Signature]</i>	T. Yamada	Uezono
△	2000. 2.21		T. Sakamoto	
△	1999. 3.19			

1. Principal Particulars of Diesel Engine

Standard	All items, unless otherwise specified, are in accordance with JIS and maker's standards
△ Model	Mitsubishi S4L2-61SD (MHI No. 31A00-00310 1/2-CHG3,2/2-CHG2)
Type	4 cycle water-cooled, vertical overhead valve, cylinder in line, swirl chamber type
Number of cylinders	4
Bore × Stroke	78mm × 92mm
Piston displacement	1.758 liters
Compression ratio	22:1
Rotation	Anti-Clockwise rotation as viewed from flywheel side.
Firing order	1-3-4-2
△ Engine weight(Dry)	Approx. 160kg
△ Dimensions(Length)	Approx. 678mm
△ (Width)	Approx. 442mm
△ (Height)	Approx. 572mm
△ Inclination(Continuous)	25°
(Temporary)	30° (Max 30 min.)
Fuel	ASTM diesel fuel oil No.2-D(JIS K2204 gas oil specification No.2 or 3)
Lubricating oil	API classification service CD class

△ Output(ISO 3046,With Fan)	St-by;15.1kW{20.5PS}/1485rpm
Total barometric pressure:100kPa	Prime;13.7kW{18.6PS}/1485rpm
Air tempetature:298K	
Relative humidity:30%	
△ Fuel consumption	Approx. 252g/kW · h{185g/PS · h} at Prime output
△ Oil consumption	Within 2.7g/kW · h{2.0g/PS · h}
Fuel injection timing	17° BTDC
△ Idling engine speed	1560 ⁺³⁰ ₀ rpm
△ Speed regulation	Steady state speed regulation at rated speed, within 5%
△ Mean effective pressure	0.63MPa{6.4kgf/cm ² } at Prime output
△ Piston speed	4.6m/s at 1485rpm
Fuel injection pump	BOSCH type
Fuel injection nozzle	Throttle type
Governor	Mechanical centrifugal type
△ Fuel filter	Filtering paper type
Lubricating system	Forced circulation by trochid pump
△ Lubricating Oil filter	Filtering paper type,full flow
△ Oil pressure	0.29MPa~0.39MPa{3~4kgf/cm ² } at duty run 0.098MPa{1.0kgf/cm ² } min. at low idling
△ Oil capacity	6.0 liters (Oil pan 5.5 liters, high level, Oil filter etc. 0.5 liters)
Cooling system	Forced circulation of fresh water by centrifugal pump with thermostat
Engine water capacity	Apporx. 2.5 liters

Alternator	12V - 50A
Voltage regulator	IC type (Built in alternator)
△ Starting system	Electric starting, Starting moter 12V-1.7kW, With heater plugs 10.5V,9.7A
Engine shut off system	Electric solenoid (ETR)
△ Back Pressure	Max 6.57kPa{0.67mH ₂ O}
△ Induction Resistance	Max 1.96kPa{0.2mH ₂ O}
△ Engine color	Black
<Remarks>	
△ ①with Fan	(ϕ 360 Pusher, pulley ratio 1.47)

2. Accessories (Loose Supply)

	Parts Name	Parts No.	Q' ty	Remarks	
△	1 SWITCH,OIL PRESSURE	31A90-00500	1	Attached To Engine	A4
△	2 SWITCH,THERMO	MM432-104	1		A4
△	3 SOLENOID ASSY	30A87-10041	1		A4
△	4 GASKET,EXHAUST	30A30-00200	1		A4
	5 RADIATOR ASSY	MM435-181	1	RADIATOR KIT 31A47-00060	
△	6 HOSE,WATER(UPPER)	31A47-00101	1		A4
△	7 HOSE,WATER(LOWER)	31A47-00201	1		
	8 CLAMP,HOSE(45)	MF661-022	3		
	9 CLAMP,HOSE(50)	MF661-024	1		
	10 PUMP ASSY,FUEL	30A60-00200	1		A4
△△	11				
△	12 GASKET,INLET PIPE	31A30-00801	1		A4