



Main Specification

Model	Units	4V222TIH	4V222TIM	4V222TIL
Engine type		4 valve, 4 cycle, V type, direct - injection, water cooled with wet turbo charger & inter-cooler		
Rating output (B.H.P)	kW(PS)/rpm	588(800)/1,800	647(880)/2,100	883(1,200)/2,300
Displacement	cc	21,927		
Cylinder number - bore(φ) x stroke	mm	12 - φ 128 × 142		
Flywheel housing & fly wheel		SAE 1 & 14		
Valve clearance at cold In / Ex	mm	0.4 / 0.5		
Low idling rpm	rpm	725 ± 25		
No load max. rpm	rpm	below 2,070	below 2,415	below 2,645
Mean effective pressure	kg/cm ²	18.2	17.2	21.4
Mean piston speed	m/sec.	8.52	9.94	10.89
Compression ratio		14.3 : 1	14.3:1	14.3:1
Firing order		1 - 12 - 5 - 8 - 3 - 10 - 6 - 7 - 2 - 11 - 4 - 9		
Governor type of injection pump		Mechanical variable speed (R.Q.V)		
Fuel consumption	g / PS.h	147	150	164
	Lit / h	143	160	239
Starting system		Electric Starting by starter motor		
Starter motor capacity	V - kW	24 - 6.6		
Alternator capacity	V - A	24 - 50		
Battery	V - Ah	24 - 200		
Cooling system		Indirect sea water cooling with heat exchanger		
Cooling water capacity	Max. / Min. lit.	103 / 92		
Fresh water pump type		Centrifugal type, driven by belt		
Sea water pump type		Bronze impeller type driven by belt		
Lubricating oil (Engine)	pan capacity	lit. Max : 40, Min : 33 (Engine total : 43)		
	pressure	kg/cm ² Full : 3.5, Idle : 1.2		
Direction of revolution	crankshaft	Counter clockwise viewed from stern side		
Engine Size (L × W × H)	mm	1,874 × 1,243 × 1,236		
Engine dry weight	kg	1,920	1,920	1,920

※H : Heavy Duty, M : Medium Duty, L : Light Duty

Engine Dimension

