

Production tolerance : ± 3%

Model		Units	4AD158TI	4AD222TI
Spec.				
Engine type			4 cycle, V-type, direct- injection, water cooled with <b>wet- turbo charger &amp; inter-cooler</b>	
Rating output (B.H.P)	50 Hz	PS(kW) / rpm	442(325)/1,500 (4AD158TIF)	667(491) /1,500 (4AD222TIF)
	60 Hz		530(390)/1,800 (4AD158TIS)	800(588) /1,800 (4AD222TIS)
Displacement		cc	14,618	21,927
Cyl. No. – bore(φ) x stroke		mm	8 - Φ128 x 142	12 - Φ128 x 142
Valve clearance at cold		mm	0.4 / 0.5	
Low idling rpm		rpm	800 ± 50	
No load max. rpm (50Hz / 60Hz)		rpm	1,500 / 1,800	
Mean effective press. (Initial )		kg/cm <sup>2</sup>	18.1 / 18.1	18.3 / 18.2
Mean piston speed (50Hz / 60Hz)		m/sec.	7.1 / 8.52	
Compression ratio			<b>15.8 : 1</b>	
Governor type of inj. pump			<b>Electric Governor</b>	
Fuel consumption		g/PS.h	165 / 171.5	159 / 169
		liter/h	88 / 110	128 / 163
Injection timing (B.T.D.C)	50 Hz	CCnR2	9° ± 1°	9° ± 1°
		EIAPP	13° ± 1°	13° ± 1°
	60 Hz	CCnR2	11° ± 1°	11° ± 1°
		EIAPP	13° ± 1°	13° ± 1°
Starting system			<b>Electric Starting by starter motor</b>	
Starter motor capacity		V- kW	24 V – 6.6	
Alternator capacity		V- A	24 V – 80	
Battery		V- Ah	24V – 200	
Cooling system			<b>Indirect cooling by sea water with heat exchanger</b>	
Cooling water capacity		lit	94 / 83	103 / 92
Fresh water pump type			<b>Centrifugal type driven by V - belt</b>	
Sea water pump type			<b>Centrifugal type driven by V - belt</b>	
Lub. Oil (Engine)	Pan capacity	lit	Max : 31, Min : 25 ( Engine total : 35)	Max : 40, Min : 33 ( Engine total : 43)
	Pressure	kg/cm <sup>2</sup>	Full : 3.5 , Idle: 1.2	
Revolution of Crankshaft			Counter clockwise viewed from flywheel side	
Engine size (L x W x H)		mm	1,205 x 1,237 x 1,117	1,521 x 1,243 x 1,236
Engine dry weight		kg	1540	1920

\* Specifications are subject to change without prior notice.