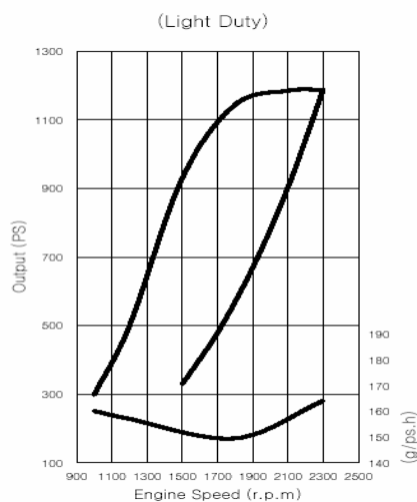
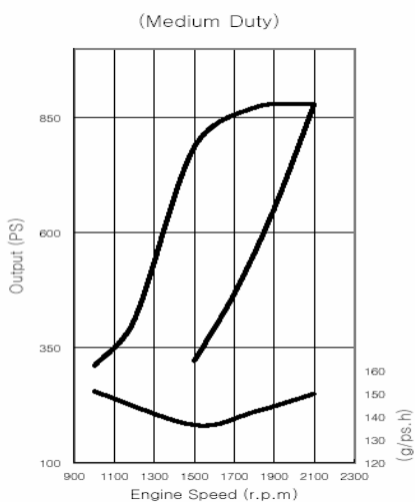
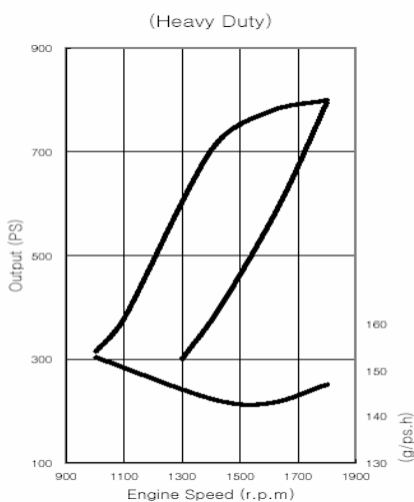
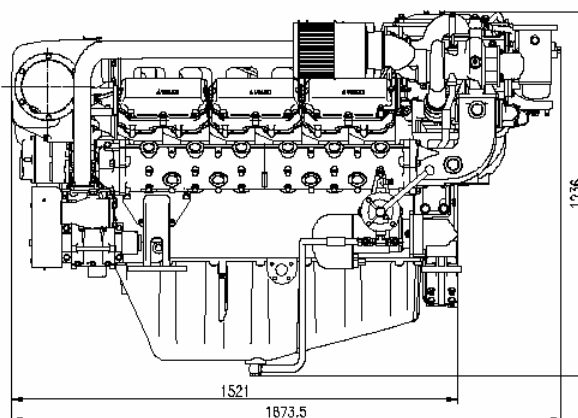
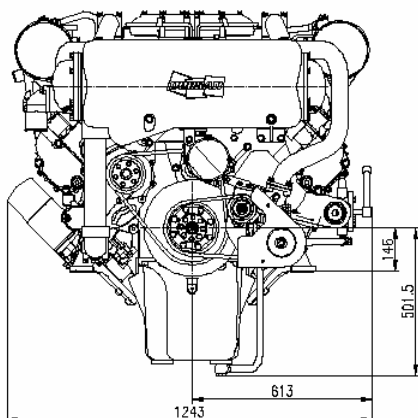


POWER RATING

Production tolerance : ± 3%

MODEL	CONDITIONS	POWER	rpm	Base Engine
4V222TIH	HEAVY DUTY	588kW (800PS)	1,800	D2842LB
4V222TIM	MEDIUM DUTY	647kW (880PS)	2,100	
4V222TIL	LIGHT DUTY	883kW (1,200PS)	2,300	

Note : 1) No reduction in rating for intake air temperature is up to 45 °C (318K) and sea water temperature is up to 32 °C (305K) , relative humidity is up to 60 % all data are based on operation to ISO 3046.



- **Heavy Duty** : Operation hours are unlimited per year, at average load is up to 90 % , at full load is up to 80 %
Typical gearbox ratio: 2.5 ~ 6
(Fishing trawler, Tug boat, Pushing vessel, Cargo boat, Freighter, Ferry)
- **Medium Duty** : Operation hours are up to 3,000 per year, at average load is up to 70 %
At full load is (up to 30 % / 4hrs per 12 hour operation period)
Typical gearbox ratio: 2 ~ 3.5
(Fishing boat, Pilot boat, Escort boat, Passenger boat, Ferry, Cruising vessel)
- **Light Duty** : Operation hours are up to 1,000 per year, at average load is up to 50 %
At full load is (up to 20 % / 2hrs per 12 hour operation period)
Typical gearbox ratio: 1 ~ 2.5
(Light weight fishing boat, Yacht, Coastguard boat, Fast boat, Fire pump, Navy)

Engine Specification			4V222TIH	4V222TIM	4V222TIL
Model	Units				
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 - φ128 x 142			
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 x W x H)	mm	1,521 x 1,243 x 1,236			
Engine dry weight	kg		1,920	1,920	1,920

psi = kg/cm² x 14.22
 lb/ft. = N.m x 0.737
 kW = 0.2388 kcal/s

lb = kg x 2.205
 lb/PS.h = g/kW.h x 0.00162
 cfm = m³/min x 35.3

hp = PS x 0.98635
 U.S gal. = liter x 0.264

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Specifications are subject to change without prior notice.