

HYUNDAI

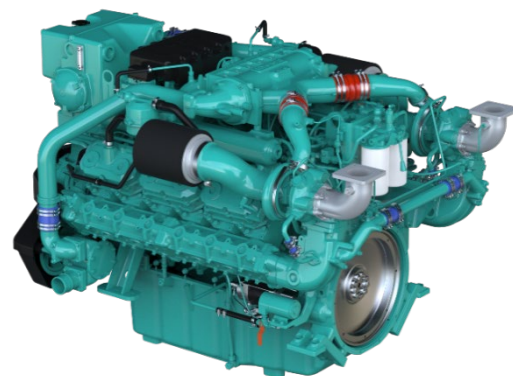
4V222C



MARINE

Power Rating

Conditions	Model	Max. Power		rpm	Emission
		kW	PS		
Continuous Duty	4V222CA(C)	596	810	1800	IMO Tier II/III EPA Tier 3 RCD
Heavy Duty	4V222CA(H)-II	736	1000	1800	
	4V222CA(H)	664	903	1800	
	4V222CB(H)	588	800	1800	
	4V222CC(H)	530	720	1800	
Medium Duty	4V222CA(M)	809	1100	2100	
Light Duty	4V222CA(L)	908	1235	2300	
	4V222CB(L)	846	1150	2300	

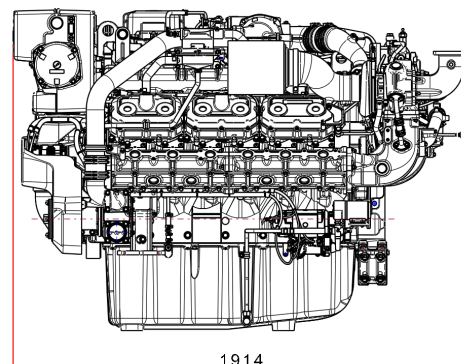
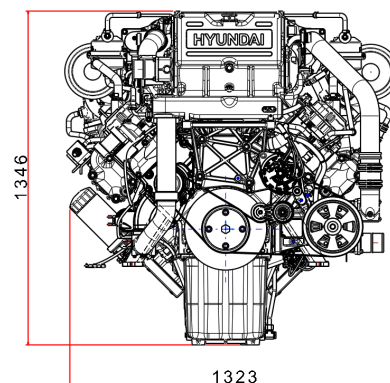


* No reduction in rating for intake air temperature is up to 45°C (318K) and sea water temperature is up to 32°C (305K), relative humidity is up to 60%

* All data are based on operation to ISO 3046. Performance tolerance of ±3%

Engine Specifications

Engine Model	4V222C (DX22)
Cylinders and Arrangement	12-cylinder / V type
Bore x Stroke	128 x 142 mm
Displacement	21.9 liter
Compression Ratio	17.0 : 1
Firing Order	1-12-5-8-3-10-6-7-2-11-4-9
Direction of Revolution	Counterclockwise viewed from Flywheel
Fuel system	Common rail controlled by ECU
Starting system	Electric starting by starter motor
Starter motor capacity	24V - 7.0A
Alternator capacity	24V - 80Ah
Battery	24V - 200Ah
Aspiration	Wet turbocharger & intercooler
Flywheel Housing	SAE #1 (FW: 14")
Cooling system	Heat exchanger / Keel Cooling
Cooling water capacity	Max : 105 liter, Min : 94.5 liter
Fresh water pump type	Centrifugal (Pulley type)
Sea water pump type	Rubber Impeller
After Treatment System	IMO Tier-II / EPA Tier 3 : Not Required IMO Tier-III : SCR
Lubricant	Oil pan capacity
Oil	Pressure
Dimension (L x W x H)	1914 x 1323 x 1346 mm
Dry Weight	2020 kg



Key Features and Benefit

High Performance

- Advanced fuel injection system with common rail
- Compliance with emission regulation (IMO Tier II/III, EPA Tier 3)
- High-efficiency SCR
- Smoke reduction
- Increased durability of key components

Convenience

- Auto tensioner
- Turning device
- Electrical oil drain pump
- CCV for engine room cleanliness

Economical

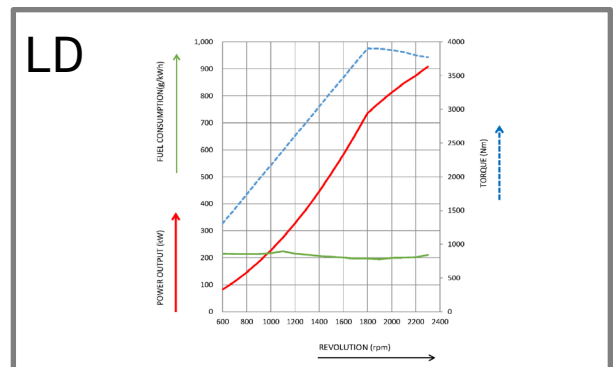
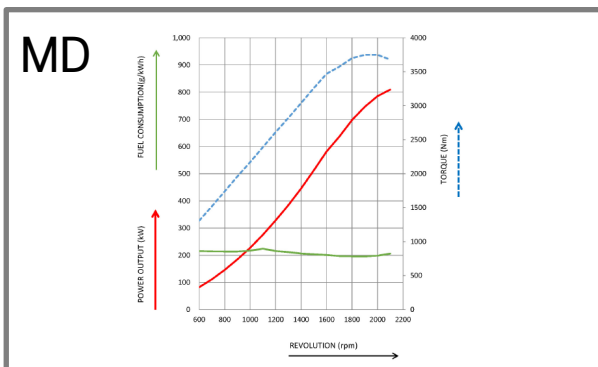
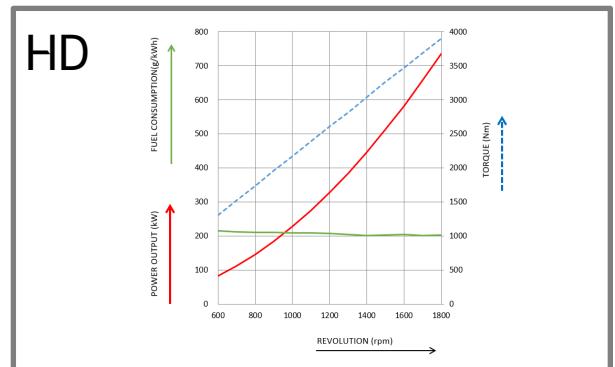
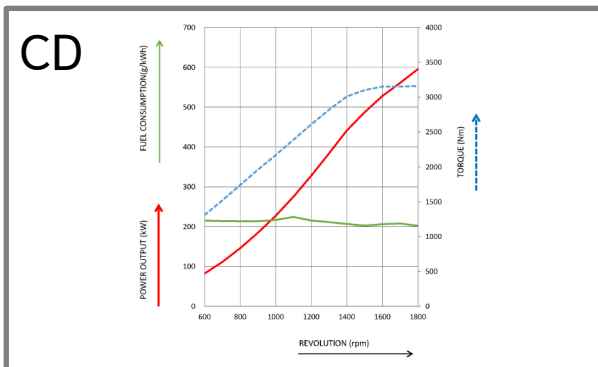
- Decreasing fuel consumption to average 5% by downsizing
- Increased oil & filter replacement cycle (250hr → 500hr)

Warranty

- Maximum 3 years warranty provided through extended warranty option

Performance Curve

• CD(Continuous Duty) / HD(Heavy Duty) / MD(Medium Duty) / LD(Light Duty)



※ Specifications are subject to change without prior notice.

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