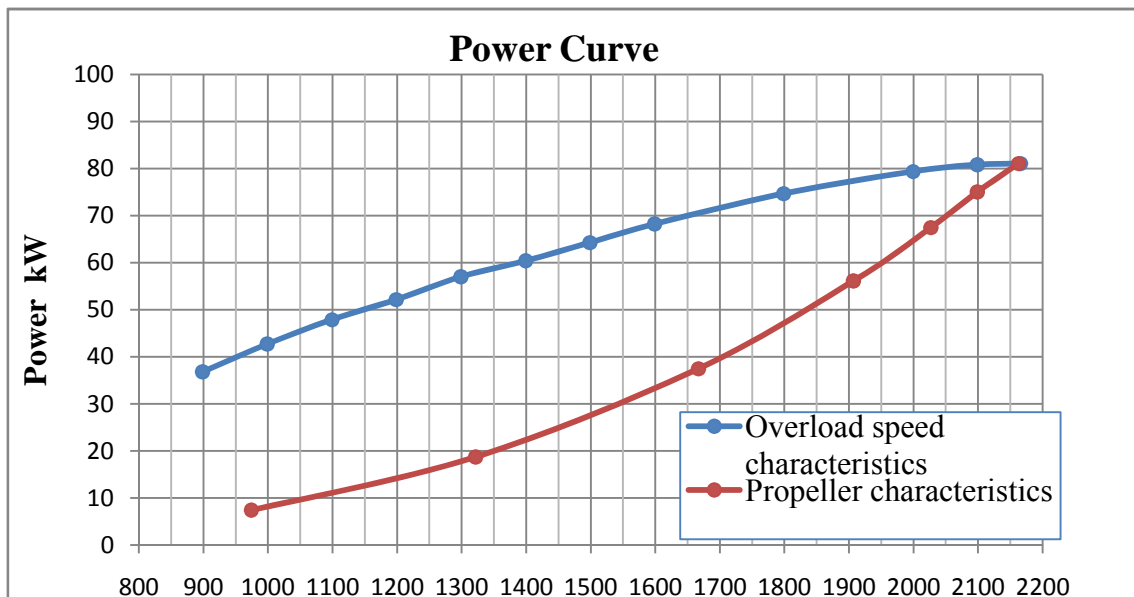
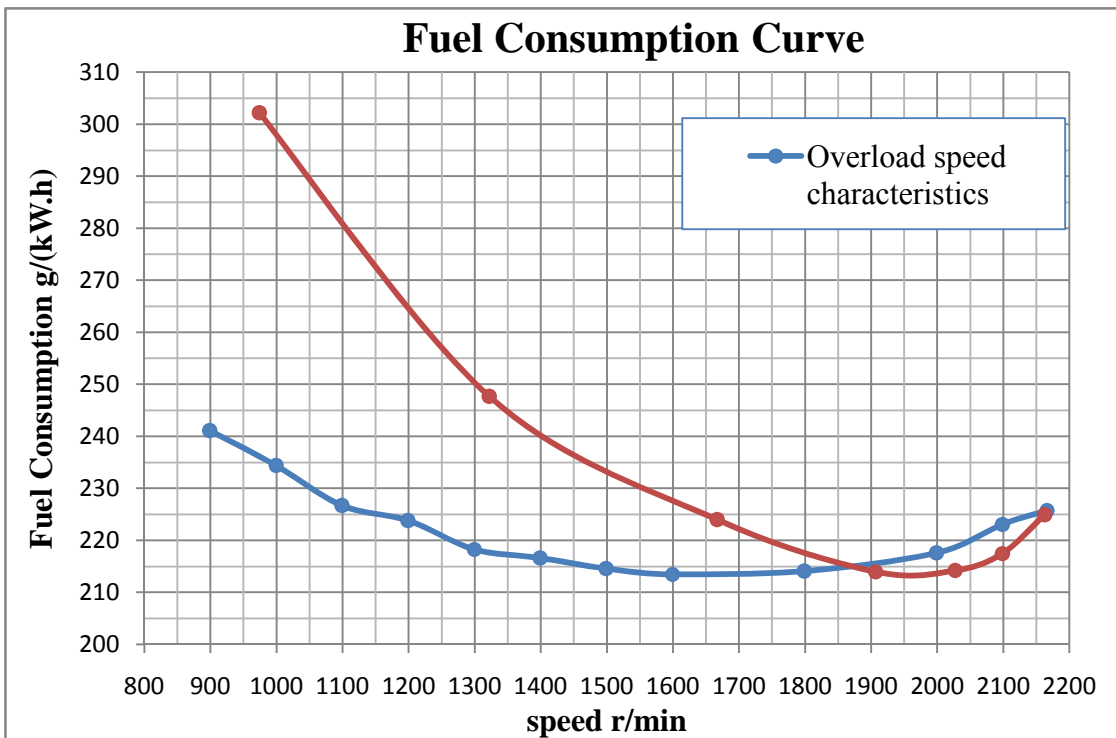
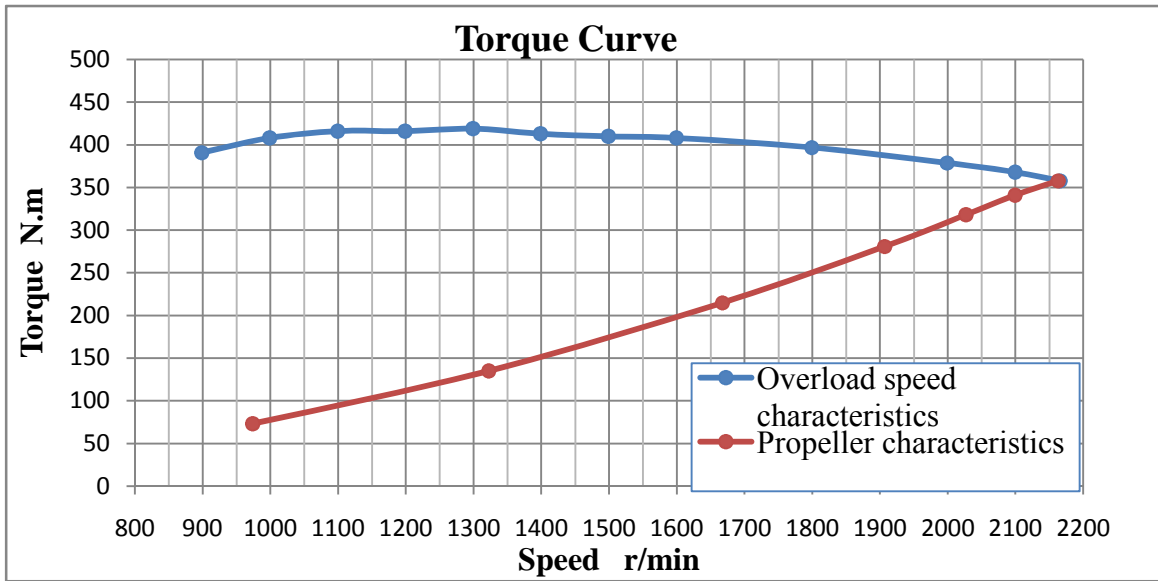


General specifications	Engine model	Rated Power/speed (kW/ r/min)	75/2100
		Overload Power/speed (kW/ r/min)	83/2167
	WP4C102-21	Cylinder Number/ Valve Numbe	4/8
Noise	/	Displacement L	4.5
Fuel System	Mechanical Pump	Aspiration	Turbocharged
Emission Standard	IMO Tier II	Cylinder bore diameter/Stroke	105×130
All data is based upon ISO 15550 reference conditions, air pressure of 100 kPa, air temperature 25 deg.C and 30% relative humidity, without fan, optional equipment and driven components. All data is subject to change without notice.			





Overload speed characteristics												
Speed (r/min)	2166	2099	1999	1799	1599	1499	1399	1299	1199	1099	999	899
Power (kW)	81.1	80.8	79.4	74.7	68.2	64.3	60.4	57	52.2	47.9	42.7	36.8
Torque (N.m)	358	368	379	397	408	410	413	419	416	416	408	391
Fuel consumption (g/kW.h)	226	223	218	214	214	215	217	218	224	227	234	241

Propeller characteristics												
Speed (r/min)	2163	2099	2027	1907	1667	1322	974					
Power (kW)	81.1	75	67.5	56.1	37.5	18.7	7.4					
Torque (N.m)	358	341	318	281	215	135	73					
Fuel consumption (g/kW.h)	225	218	214	214	224	248	302					

Engine basic data			
Engine net weight (kg)		600	
Overall Dimension (Length×Width×Height) (mm)		1064×620×970	
Packing Dimension (Length×Width×Height) (mm)		1500×760×1150	
Max. Permissible Fixing Angle	Longitudina	Front/Rear	10°/10°
	Cross	Exhaust/Intake	45°/15°
Dynamic dip Angle	Longitudina	Front/Rear	30°/30°
	Cross	Exhaust/Intake	45°/30°
Permitted max. working altitude (m)		2000	
hanging cylinder height (m)		0.8	
Permitted temperature ambient(°C)		-10°C ~ 50°C	

Intake air system		
Intake air resistance	Clean filter (kPa)	≤3.5
	Dirty filter (kPa)	≤6.0kPa
Flow of recommend air filter (m ³ /h)		≥830
Required air mass flow (kg/h)	Rated working condition	529
	Max.Torque	282
Recommended Min. diameter of intake pipe (mm)		60

Inter cooling system		
Intercooler heat dissipating capacity (KJ/S)	Rated working condition	/
	Max.Torque	/
Max. intake temperature(°C)		/
Max. difference between intake temperature and ambient		/
Permitted max. intake pressure drop of intercooler(kPa)		/
Recommended radiator cooling area(d: Fan diameter)(m ²)		/

Exhaust system		
Max. exhaust back pressure(kPa)		5
Max. exhaust temperature	Turbocharger inlet(°C)	≤600
	urbocharger outlet(°C)	≤550
Exhaust-gas mass flow (kg/h)	Rated working condition	545.3
	Max.Torque	294.5
Recommended Min. diameter of exhaust pipe (mm)		65

Lubrication system		
Volume of oil pan		10L
Oil pressure in normal condition	Idle condition(kPa)	≥120
	Rated working condition (kPa)	300~600
Temperature range in main oil passage at rated working		80~105°C
Opening pressure of main oil passage pressure limiting		0.54~0.75MPa
Oil flow	Rated working condition	59
	Max.Torque	/

Fuel system	
Max. fuel temperature	70
Recommended diameter of inlet pipe	9mm
Recommended diameter of return pipe	9mm

Electrical system		
Recommended Min. conductor cross-sectional area	50mm ²	
Motor power/Electrical system voltage (kW/V)	6kw/24V	
Min. temperature of cold starting	Unaided starting system	-10
	Aided starting device	-30
Battery	Recommend capacity	150A.h
Instrument	Speed: Alarm (r/min)	Alarm 2145, Stop 2520
	Water outlet: Alarm (°C)	95
	Oil temperature: Alarm (°C)	105
	Oil pressure: Alarm (kPa)	Alarm 120, Stop80
Alternator		28V/35A

Cooling system		
Min. coolant temperature of engine working	40°C	
Recommended Min. diameter of water outlet pipe	45mm	
Coolant capacity	5.3L	
Flow of raw water	Rated working condition	8.7 m ³ /h
	Max.Torque	6.5 m ³ /h
Temperature of raw water inlet and outlet	Rated working condition	40°C/44.9°C
	Max.Torque	40°C/45.2°C
Air temperature before and after intercooler	Rated working condition	/
	Max.Torque	/
Heat: be taken away by raw water (kJ/S)	Rated working condition	49.6
	Max.Torque	28.8
Heat:be taken away by exhaust gas (kJ/S)	Rated working condition	53.9
	Max.Torque	32.8
Total heat of engine (kJ/S)		194.3
Thermostat	opening temperature °C	76±2
	fully open temperature °C	88
seawater pump	Flow at rated condition	18m ³ /h
	Self-priming height	2m
	Lift	17m