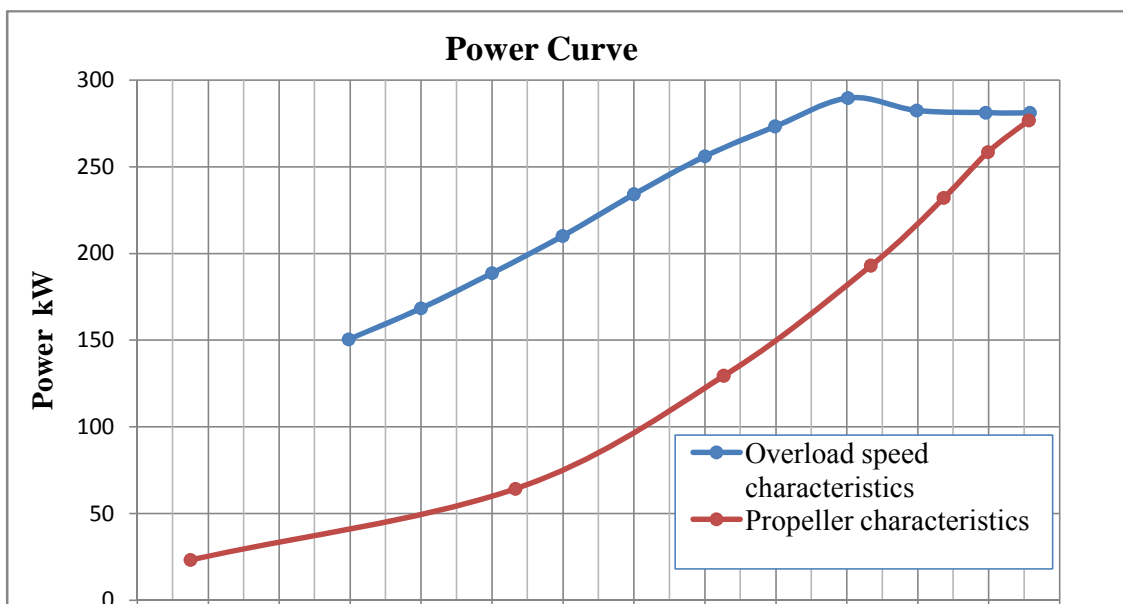
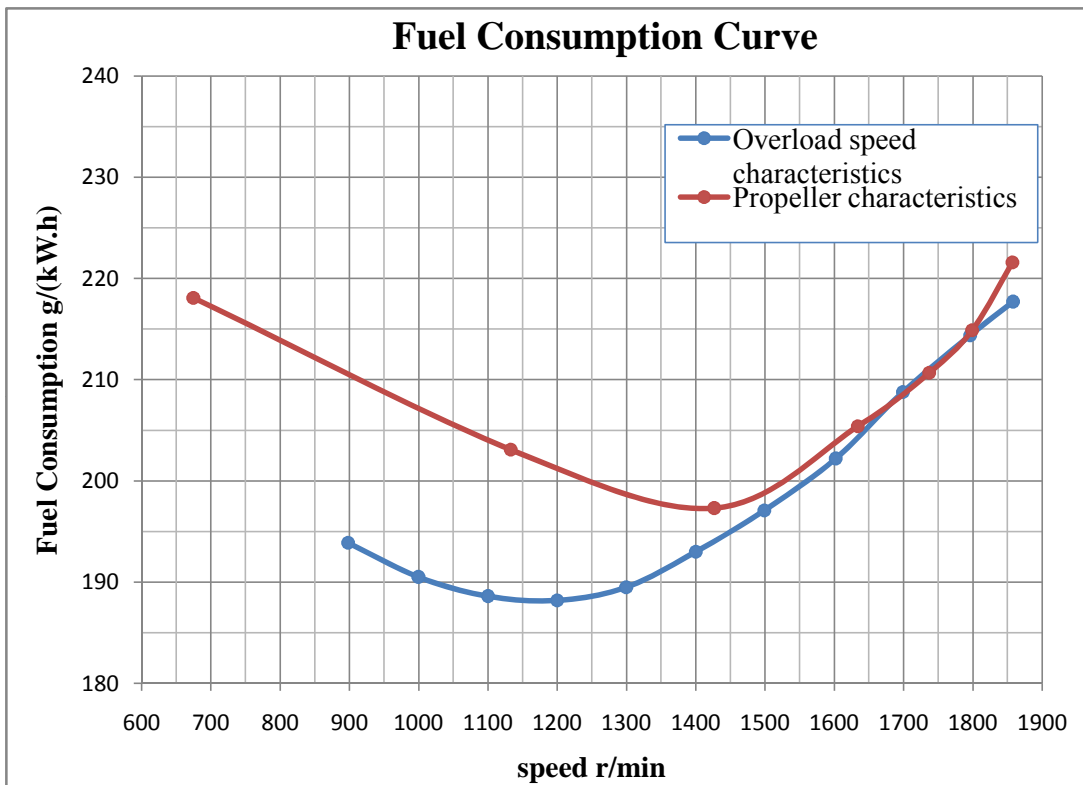
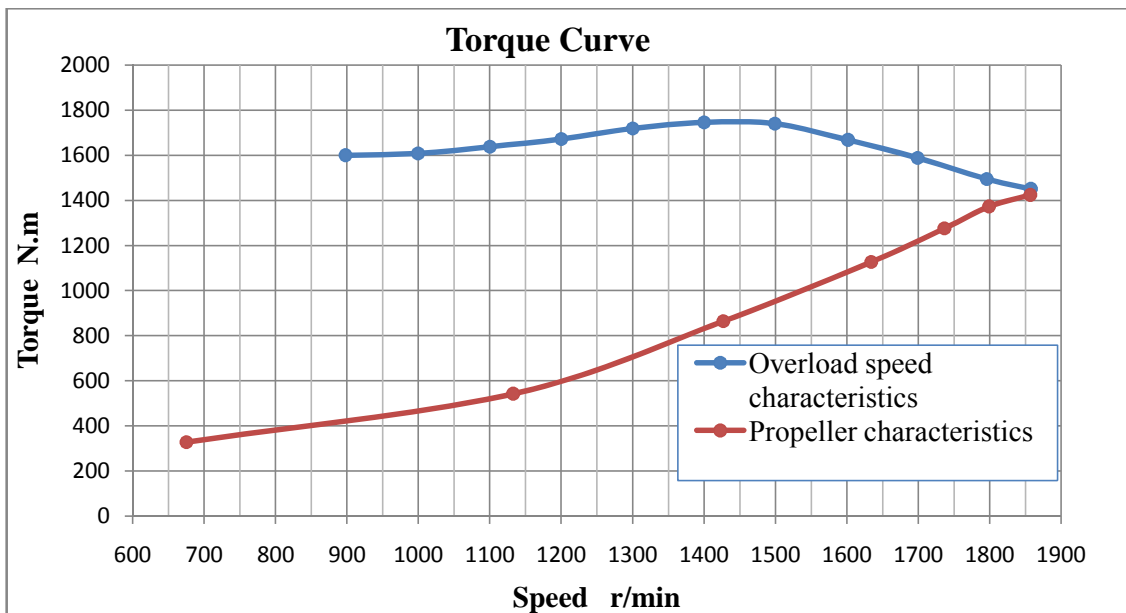


General specifications	Engine model	Rated Power/speed (kW/ r/min)	258/1800
		Overload Power/speed (kW/ r/min)	284/1858
	WD12C350-18	Cylinder Number/ Valve Number	6 / 12
Noise	/	Displacement L	11.596
Fuel System	Mechanical Pump	Aspiration	Turbocharged and intercooled
Emission Standard	IMO Tier II	Cylinder bore diameter/Stroke	126×155
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)	898	1000	1100	1200	1300	1400	1499	1602	1699	1796	1858	
Power (kW)	150	168	189	210	234	256	273	290	283	281	281	
Torque (N.m)	1599	1608	1638	1672	1719	1746	1740	1667	1588	1495	1450	
Fuel consumption (g/kW.h)	194	191	189	188	190	193	197	202	209	214	218	

Propeller characteristics												
Speed (r/min)	675	1133	1427	1634	1737	1799	1857					
Power (kW)	23.3	64.3	129	193	232	259	277					
Torque (N.m)	329	542	865	1127	1276	1372	1423					
Fuel consumption (g/kW.h)	218	203	197	205	211	215	222					

Engine basic data			
Engine net weight (kg)		1100±50	
Engine gross weight (kg)		/	
Overall Dimension (Length×Width×Height) (mm)		1488×842×1515	
Packing Dimension (Length×Width×Height) (mm)		2150×920×1550	
Advance angle of fuel supply		11±1	
Max. Permissible Fixing Angle	Longitudinal	Front/Rear	10°/10°
	Cross	Exhaust/Intake	45°/15°
Dynamic dip Angle	Longitudinal	Front/Rear	30°/30°
	Cross	Exhaust/Intake	45°/30°
Permitted max. working altitude (m)		4000	
Maximum cylinder height (m)		1	

<b>Intake air system</b>		
Intake air resistance	Clean filter (kPa)	≤4
	Dirty filter (kPa)	≤7.0kPa
Flow of recommend air filter (m <sup>3</sup> /h)		≥2100
Required air mass flow (kg/h)	Rated working condition	1705
	Max.Torque	1723
Recommended Min. diameter of intake pipe (mm)		100

<b>Inter cooling system</b>		
Intercooler heat dissipating capacity (KJ/S)	Rated working condition	67.8
	Max.Torque	68.3
Max. intake temperature(°C)		58
Max. difference between intake temperature and ambient		30
Permitted max. intake pressure drop of intercooler(kPa)		1.42
Recommended radiator cooling area(d: Fan diameter)(m <sup>2</sup> )		9.45

<b>Exhaust system</b>		
Max. exhaust back pressure(kPa)		6
Max. exhaust temperature	Turbocharger inlet(°C)	≤700
	turbocharger outlet(°C)	≤550
Exhaust-gas mass flow (kg/h)	Rated working condition	1765.3
	Max.Torque	1784.4
Recommended Min. diameter of exhaust pipe (mm)		100

<b>Lubrication system</b>		
Volume of oil pan		24L
Oil pressure in normal condition	Idle condition(kPa)	100~250
	Rated working condition (kPa)	330~550
Temperature range in main oil passage at rated working		70~105°C
Opening pressure of main oil passage pressure limiting		0.45~0.5MPa
Oil flow	Rated working condition	≥160
	Max.Torque	/
Oil consumption		≤0.3%

<b>Fuel system</b>		
Max. fuel temperature		50
Recommended diameter of inlet pipe		10mm
Recommended diameter of return pipe		10mm

<b>Electrical system</b>		
Recommended Min. conductor cross-sectional area		50mm <sup>2</sup>
Motor power/Electrical system voltage (kW/V)		5.5kw/24V
Min. temperature of cold starting	Unaided starting system	-10
	Aided starting device	-30
Battery	Recommend capacity	165A.h
Instrument	Speed: Alarm (r/min)	Alarm 2070, Stop 2160
	Water outlet: Alarm (°C)	97
	Oil temperature: Alarm (°C)	115
	Oil pressure: Alarm (kPa)	Alarm 80, Stop40
Alternator		28V/35A

<b>Cooling system</b>		
Min. coolant temperature of engine working		40°C
Recommended Min. diameter of water outlet pipe		45mm
Coolant capacity		24L
Flow of Cooling liquid	Rated working condition	24 m <sup>3</sup> /h
	Max.Torque	22 m <sup>3</sup> /h
Temperature of water inlet and outlet	Rated working condition	82.3°C/89.7°C
	Max.Torque	75.8°C/82.5°C
Temperature before and after intercooler	Rated working condition	179.9°C/57.1°C
	Max.Torque	178.0°C/55.4°C
Heat: be taken away by Cooling liquid (kJ/S)	Rated working condition	111.9
	Max.Torque	101.3
Heat exchanger	Radiator cooling area (m <sup>2</sup> )	/
Heat:be taken away by exhaust gas (kJ/S)	Rated working condition	177.8
	Max.Torque	179.4
Total heat: be taken away of engine (kJ/S)		170.9
Thermostat	opening temperature °C	71±2
	fully open temperature °C	80
seawater pump	Flow at rated condition	18m <sup>3</sup> /h
	Self-priming height	2m
	Lift	17m