

Technical data sheet

17.01.2017 (Version 2)

Marine diesel engine D2862LE463 ()

Performance data ¹

400 100	PS
100	
100	rpm
128	mm
157	mm
4,24	liter
086	Nm
120	Nm
900	rpm
17,0	:1
4,26	bar
0,99	m/s
	157 4,24 680 120 900 17,0 4,26



Consumption data ¹

Specific fuel consumption ²	210	g/kWh
Absolute fuel consumption ²	257	l/h
Lowest fuel consumption ³	200	g/kWh

The engine illustrated may not entirely be identical to production standard engine

Engine description

Operation profile	up to 3000 hours per year at a maximum of 20 $\%$ of time at full load average load < 50 $\%$
Construction	four-stroke marine diesel engine, direct injection, SAE 1 flywheel housing
Cylinders	12 cylinders in V-arrangement, single cylinder heads with wet replaceable cylinder liners
Air system	single-stage turbocharger with charge air intercooler and wastegate
Cooling system	seawater cooled by rubber impeller pump or two-circuit-cooling system for hull cooling
Oil system	force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of the engine
Fuel system	Common Rail injection system with high pressure pump and EDC control, fuel to DIN EN 590
Auxiliary PTO	PTO for hydraulic pump 16 cm³ (180Nm), front-PTO by crank shaft extension
Alternator	three-phase generator with rectifier and transistorized governor, 28 V, 120 A
Starting system	solenoid-operated electric starter, 24 V, 7.0 kW
Service	oil change interval 500 operating hours, average TBO 12.000 operating hours
Classification	ABS, BV, CCS, CRS, DNV, GL, NK, RINA, RMRS, RRR

Exhaust status IMO Tier II, 97/68/EC

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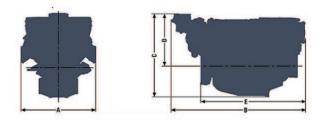
¹ values at rated power

² Tolerance +5% according to ISO 3046, diesel fuel to DIN EN 590

³ values on propeller curve

D2862LE463 ()

A - overall width	1153	mm
B - overall length	2130	mm
C - overall height	1230	mm
D - above crank shaft	765	mm
E - length to flywheel	1630	mm
Engine weight (dry)	2270	kg



Combustion parameters ¹

Intake air temperature (max.)	45	°C
Intake air vacuum (min/max)	30/60	mbar
Intake air volume flow	4110	m³/h

Exhaust gas temperature	510	°C
Exhaust gas volume flow	10700	m³/h
Exhaust gas mass flow	4580	kg/h
Exhaust back pressure (min/max)	20/80	mbar

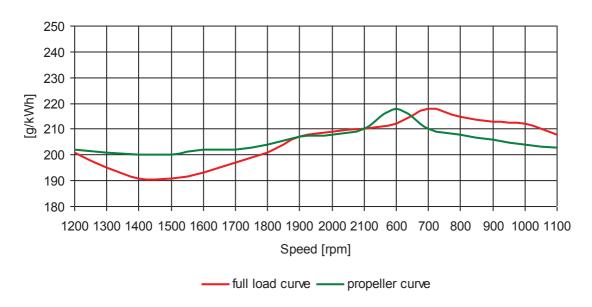
Heat balance 1

Exhaust gas heat	652	kW
Cooling water heat	680	kW
Intercooler heat	185	kW
Radiation heat	36	kW

Noise emission 1

Engine surface noise (Lwa)	103,8	dB(A)
Free exhaust noise (Lwa)	111,7	dB(A)

Specific fuel consumption²



- < The rated power is based on reference conditions according to ISO 3046-1 (2002) >
- < Intake air temperature, max. 45°C | sea water temperature, max. 32°C >
- < Barometric pressure 1000 mbar | air humidity 60% >
- < Exponent for propeller curve 2,7 >
- < Engine specifications are subjected to change without prior notice >

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¹ values at rated power

² Tolerance +5% according to ISO 3046, diesel fuel to DIN EN 590

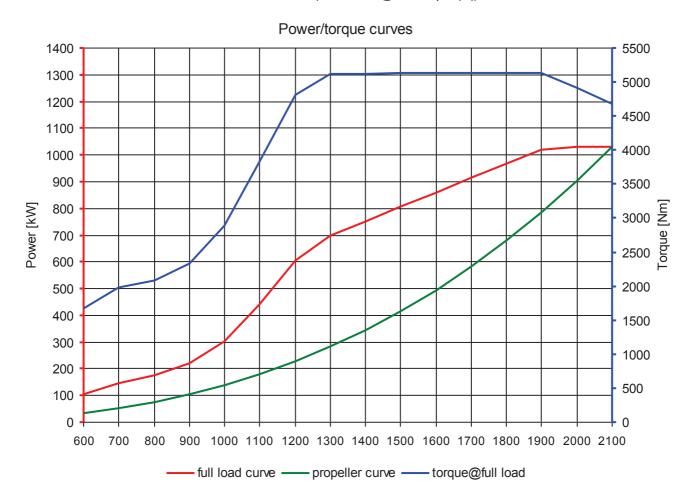
³ values on propeller curve



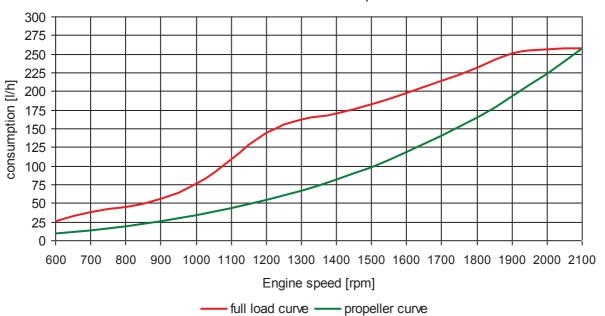
Engine curves

17.01.2017 (Version 2)

D2862LE463 (1029kW@2100rpm) ()







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