



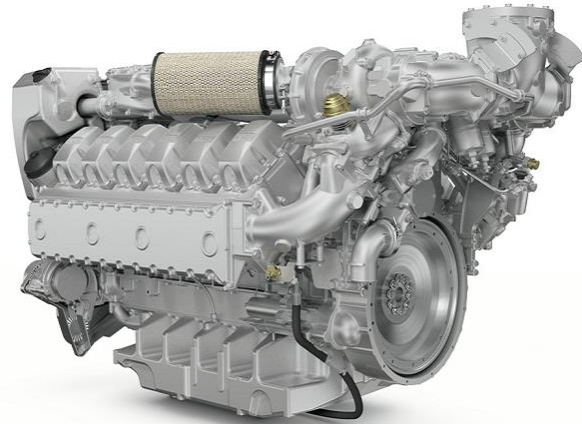
# Technical data sheet

17.05.2016  
(Version 2)

## Marine diesel engine D2862LE463 ()

### Performance data <sup>1</sup>

Rated power	1029	kW
Rated power	1400	PS
Speed	2100	rpm
Bore	128	mm
Stroke	157	mm
Displacement	24,24	liter
Rated torque	4680	Nm
Maximum torque	5120	Nm
at speed	1300-1900	rpm
Compression ratio [ε]	17,0	:1
Mean effective pressure	24,26	bar
Mean piston speed	10,99	m/s



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

### Consumption data <sup>1</sup>

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

### 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 cm <sup>3</sup> (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, RCD 94/25/EC, 97/68/EC

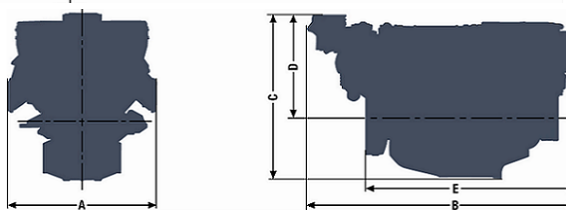
<sup>1</sup> values at rated power

<sup>2</sup> Tolerance +5% according to ISO 3046, diesel fuel to DIN EN 590

<sup>3</sup> 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 <sup>1</sup>

Intake air temperature (max.)	45 °C
Intake air vacuum (min/max)	30/60 mbar
Intake air volume flow	4110 m <sup>3</sup> /h

Exhaust gas temperature	510 °C
Exhaust gas volume flow	10700 m <sup>3</sup> /h
Exhaust gas mass flow	4580 kg/h
Exhaust back pressure (min/max)	20/80 mbar

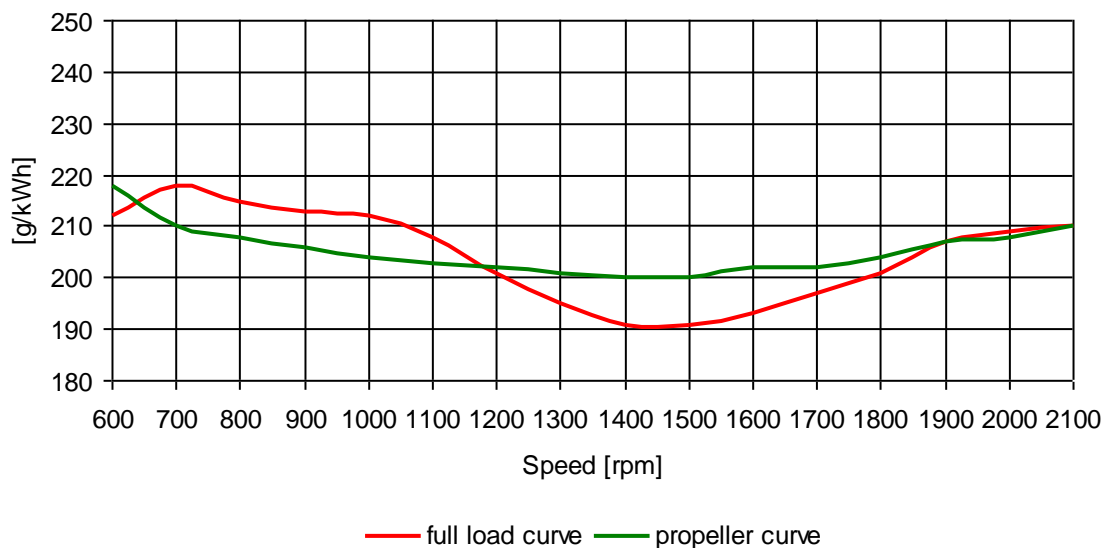
### Heat balance <sup>1</sup>

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

### Noise emission <sup>1</sup>

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

### Specific fuel consumption<sup>2</sup>



< 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 >**

<sup>1</sup> values at rated power

<sup>2</sup> Tolerance +5% according to ISO 3046, diesel fuel to DIN EN 590

<sup>3</sup> values on propeller curve

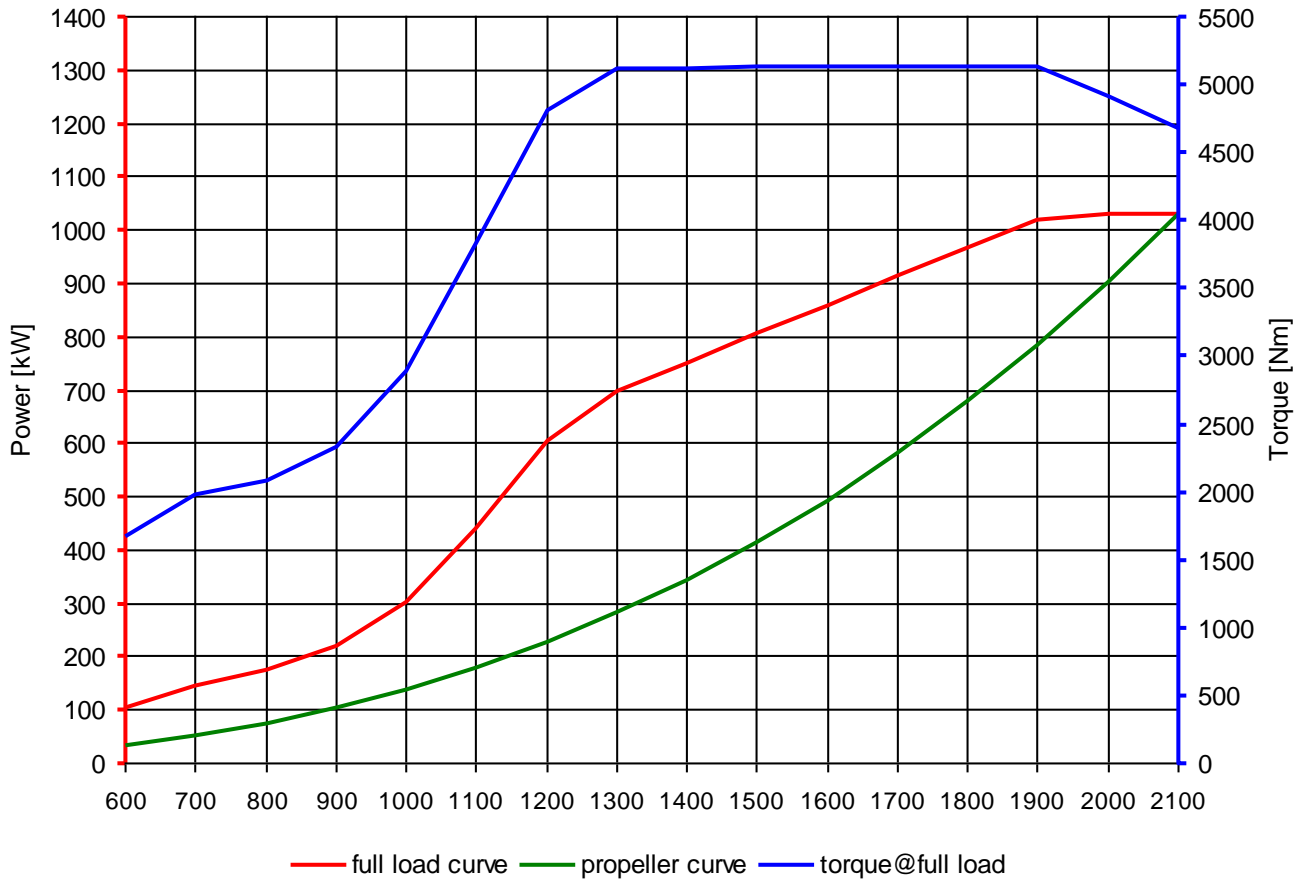


# Engine curves

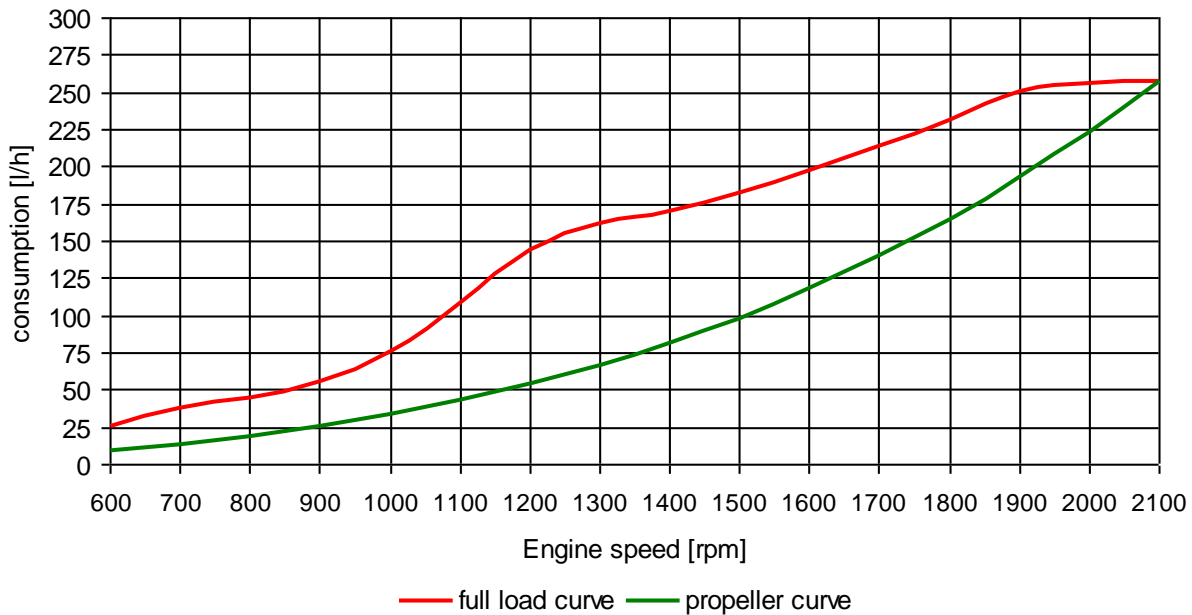
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D2862LE463 (1029kW @2100rpm) ()

Power/torque curves



Absolute fuel consumption<sup>1</sup>



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< Exponent for propeller curve 2,7 >

< Engine specifications are subjected to change without notice >

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