

Technical data sheet

17.01.2017 (Version 3)

Marine diesel engine D2862LE421 ()

Performance data ¹

662	kW
900	PS
1800	rpm
128	mm
157	mm
24,24	liter
3512	Nm
3955	Nm
1100-1600	rpm
19,0	:1
18,21	bar
9,42	m/s
	900 1800 128 157 24,24 3512 3955 1100-1600 19,0 18,21



Consumption data ¹

Specific fuel consumption ²	198	g/kWh
Absolute fuel consumption ²	156	l/h
Lowest fuel consumption ³	195	g/kWh

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

Engine description

Operation profile	unlimited operating hours per year at a maximum of 100 % of time at full load
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
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 600 operating hours, average TBO 18.000 operating hours
Classification	ABS, BV, CCS, CRS, DNV, GL, NK, RINA, RRR

Exhaust status IMO Tier II, 97/68/EC

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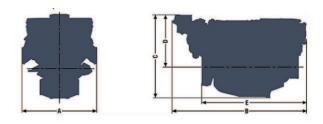
¹ values at rated power

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

³ values on propeller curve

D2862LE421 ()

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	2825	m³/h
Exhaust das temperature	355	$^{\circ}$ C

Exhaust gas temperature	355	°C
Exhaust gas volume flow	6100	m³/h
Exhaust gas mass flow	3320	kg/h
Exhaust back pressure (min/max)	20/80	mbar

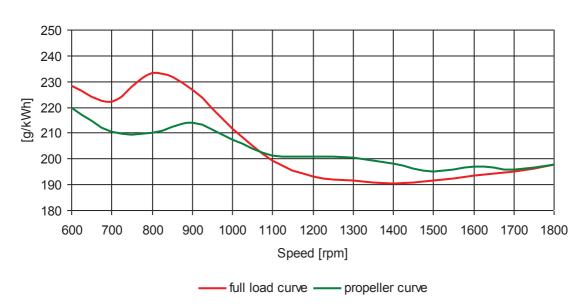
Heat balance 1

Exhaust gas heat	310	kW	
Cooling water heat	410	kW	
Intercooler heat	165	kW	
Radiation heat	35	kW	

Noise emission 1

Engine surface noise (Lwa)	101,0	dB(A)
Free exhaust noise (Lwa)	108,5	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 3 >
- < Engine specifications are subjected to change without prior notice >

Date: 26.01.2017

¹ values at rated power

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

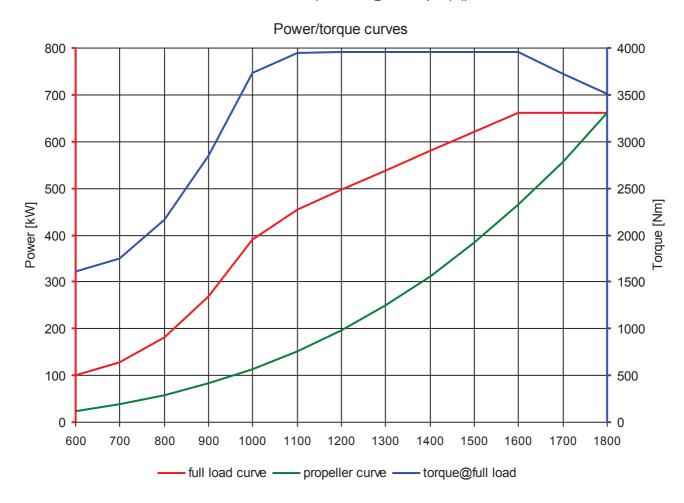
³ values on propeller curve

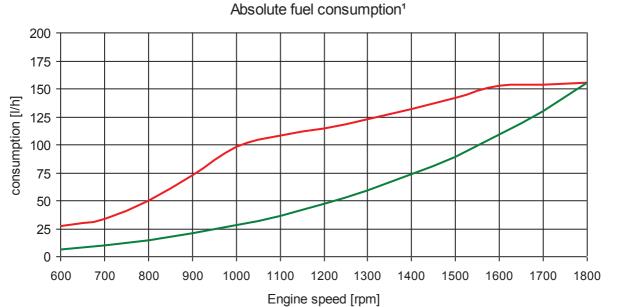


Engine curves

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D2862LE421 (662kW@1800rpm) ()





full load curve ----- propeller curve

- < The rated power is based on reference conditions according to DIN ISO 3046-1 (2002) >
- < Exponent for propeller curve 3 >
- < Engine specifications are subjected to change without notice >

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¹ Tolerance +5% according ISO 3046, diesel fuel to DIN EN 590