

Technical data sheet

08.07.2022 (Version 3)

Marine diesel engine D2862LE476 (V12-1900)

Performance data ¹

Rated power	1397	kW
Rated power	1900	PS
Speed	2300	rpm
Bore/Stroke	128/157	mm
Displacement	24,24	liter
Rated torque	5800	Nm
Maximum torque	6130	Nm
at speed	1200-2100	rpm
Compression ratio [ε]	17,0	:1
Mean effective pressure	30,07	bar
Mean piston speed	12,04	m/s



Consumption data ²

Specific fuel consumption ¹	224	g/kWh
Absolute fuel consumption ¹	373	l/h
Lowest fuel consumption ³	200	g/kWh

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

Engine description

Application	Main propulsion diesel for ships with fixed pitch propeller
Operation profile	Up to 500 hours per year at a maximum of 5 % 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	Two-stage turbocharger with charge air intercooler and wastegate
Cooling system	Seawater cooled charge air cooler and plate heat exchanger by rubber impeller pump
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 EDC17 control, fuel to DIN EN 590
Auxiliary PTO	PTO for hydraulic pump 16 cm³ (180Nm)
Alternator	Three-phase generator with rectifier and transistorized governor, 28V, 120A
Starting system	Solenoid-operated electric starter, 24V, 7.0kW
Service	Oil change interval 400 operating hours
Classification	

Exhaust status IMO Tier II, RCD 2013/53/EC, EPA Tier 3 recreational, China 2 recreational

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¹ Values at rated power

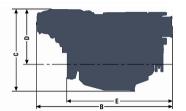
² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve

D2862LE476 (V12-1900)

A - overall width	1153	mm
B - overall length	2139	mm
C - overall height	1272	mm
D - above crank shaft	808	mm
E - length to flywheel	1658	mm
Engine weight (dry)	2420	kg





Combustion parameters ¹

Intake air temperature (max.)	45	°C
Intake air vacuum (min/max)	30/60	mbar
Intake air volume flow	6190	m³/h

Exhaust gas temperature	520	°C
Exhaust gas volume flow	16400	m³/h
Exhaust gas mass flow	6960	kg/h
Exhaust back pressure (min/max)	20/80	mbar

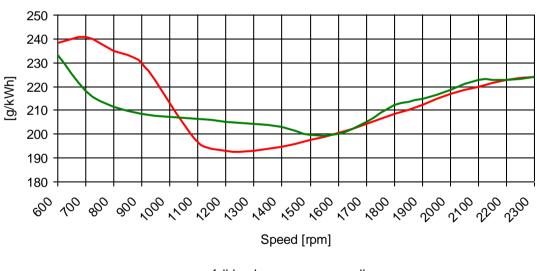
Heat balance 1

Exhaust gas heat	992	kW
Cooling water heat	960	kW
Intercooler heat	350	kW
Radiation heat	41	kW

Noise emission (sound power) 1

Engine surface noise (Lwa)	123,9 dB(A)
Free exhaust noise (Lwa)	127,1 dB(A)

Specific fuel consumption²



—— full load curve —— propeller curve

- < 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 2,5 >
- < Engine specifications are subjected to change without prior notice >

¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve