

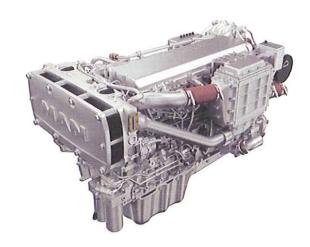
Technical data sheet

24.01.2017 (Version 1)

Marine diesel engine D2676LE441 ()

Performance data ¹

Rated power	270	kW
Rated power	367	PS
Speed	1800	rpm
Bore	126	mm
Stroke	166	mm
Displacement	12,42	liter
Rated torque	1432	Nm
Maximum torque	1616	Nm
at speed	1000-1600	rpm
Compression ratio [ε]	17,0	:1
Mean effective pressure	14,49	bar
Mean piston speed	9,96	m/s



Consumption data 1

Specific fuel consumption ²		g/kWh
Absolute fuel consumption ²		I/h
Lowest fuel consumption ³	204	g/kWh

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

Engine description

unlimited operating hours per year at a maximum of 100 % of time at full load
four-stroke marine diesel engine, direct injection, SAE 1 flywheel housing
6 cylinders in line, single cylinder heads with wet replaceable cylinder liners
single-stage turbocharger with charge air intercooler
seawater cooled charge air cooler and plate heat exchanger by rubber impeller pump
force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of the engine
Common Rail injection system with high pressure pump and EDC control, fuel to DIN EN 590
PTO for hydraulic pump 16 cm ²
three-phase generator with rectifier and transistorized governor, 28 V, 110 A
solenoid operated electric starter, 24 V, 5.5 kW
oil change interval 600 operating hours, average TBO 18.000 operating hours
DNV-GL, RINA, LRS, BV, ABS, CCS

Exhaust status IMO Tier II, 97/68/EC

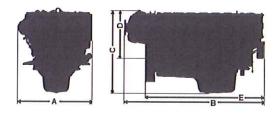
¹ values at rated power

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

³ values on propeller curve

D2676LE441 ()

A - overall width	986	mm
B - overall length	1795	mm
C - overall height	1096	mm
D - above crank shaft	674	mm
E - length to flywheel	1527	mm
Engine weight (dry)	1215	kg



Combustion parameters 1

Intake air temperature (max.)	45	°C
Intake air vacuum (min/max)	30/60	mbar
Intake air volume flow	1450	m³/h
Exhaust gas temperature	365	°C
Exhaust gas volume flow	3080	m³/h
Exhaust gas mass flow	1650	kg/h
Exhaust back pressure (min/max)	20/80	mbar

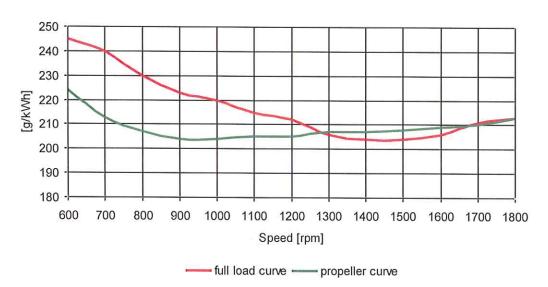
Heat balance 1

Exhaust gas heat	190	kW	
Cooling water heat	150	kW	
Intercooler heat	50	kW	
Radiation heat	26	kW	

Noise emission 1

Engine surface noise (Lwa)	dB(A)	
Free exhaust noise (Lwa)	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 >

¹ values at rated power

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

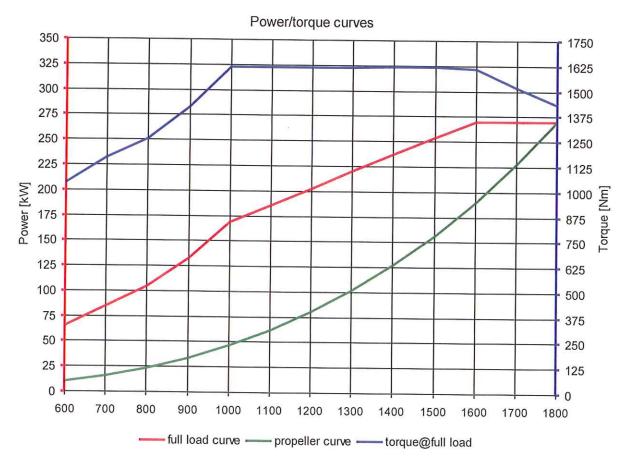
³ values on propeller curve

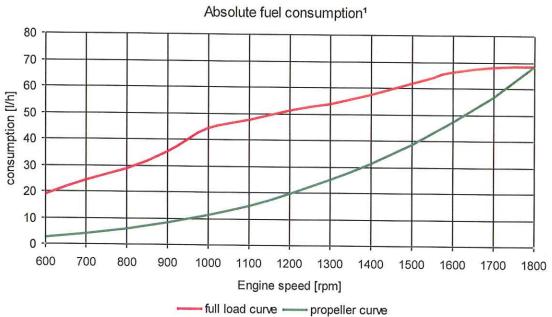


Engine curves

24.01.2017 (Version 1)

D2676LE441 (270kW@1800rpm) ()





- < 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 >

Printed by:

Date: 26.01.2017

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