



Diesel engine D 2876 LE401
 Technical Data

Part A
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Engine type: four-stroke, direct-injection
 Cylinders : 6 cylinder in line, wet replaceable cylinder liners
 Aspiration : turbocharger, intercooler, wastegate
 Cooling : water circulation by centrifugal pump on engine
 Lubrication: force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of engine
 Injection: Bosch in-line with EDC- governor
 Generator: Bosch three-phase generator with rectifier and transistorized governor, 28 V, 55 A
 Starter motor: Bosch solenoid-operated starter, typ KB, 24 V, 5,4 kW

Bore :	128 mm	Starter battery capacity:	143 Ah (24V)
Stroke :	166 mm	Filling capacities:	
Volume :	12,8	- Engine lube oil for	
Compression ratio:	15,0:1	standard oil sump (min.):	26 l
		standard oil sump (max.):	30 l
Cooling water temperature:		Inertia moments (SI-Unit):	
- under normal conditions	90° C	- engine and vibration damper :	
- short period under extreme conditions	95° C	- flywheel for :	
- before start of full load (min.)	60	variable speed :	
		marine propulsion engine	1,975kgm ²
Filling capacities:		Speed droop variable speed	max. 15%
- coolant for engine with integrated cooling system and piping approx	58 l		



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Mode of operation		3
Speed	rpm	2200
Maximum rating	kW HP	515 700
Exhaust status		IMO/ZKR
Mean effective pressure	bar	22
Torque	Nm	2235
Mean piston velocity	m/s	12,17
Fuel consumption (+5% tolerance)		
Mode of operation 1	g/kWh	---
Mode of operation 2	g/kWh	---
Mode of operation 3	g/kWh	225
Lube oil consumption max.	g/h	500
Air for combustion	m ³ /h	2340
Negative pressure at air filter outlet, max. permissible	hPa	130
Exhaust gas heat	kW	355
Exhaust gas temperature	°C	510
Exhaust gas mass flow	kg/h	2616
Exhaust gas volume flow	m ³ /h	5880
Exhaust gas back pressure max. permissible	hPa	80
Jacket water heat incl. water-cooled exhaust manifold	kW	330
Minimum cooling water circulation	l/min	810
Intercooler heat rate	kW	90
delivery quantity of fuel supply pump	l/h	280
Power input for raw water pump	kW	3
delivery quantity of raw water pump at a back pressure of 1 bars	l/h	23000
Radiation heat	kW	100



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Speed	rpm	2200
Noise at 1m distance	dB(A)	100
Weight (dry, with cooling system)	kg	1290

Examples of application for mode of operation see Part E :

" Definition of application for MAN marine engines "

The nominal ratings are based on reference conditions according to DIN / ISO 3046/1: 298 K (25° Celsius) air temperature, 100 kPa (1000 mbar) air pressure, 60 % air humidity.

Output-related data are referred to the maximum rating specified for each speed.

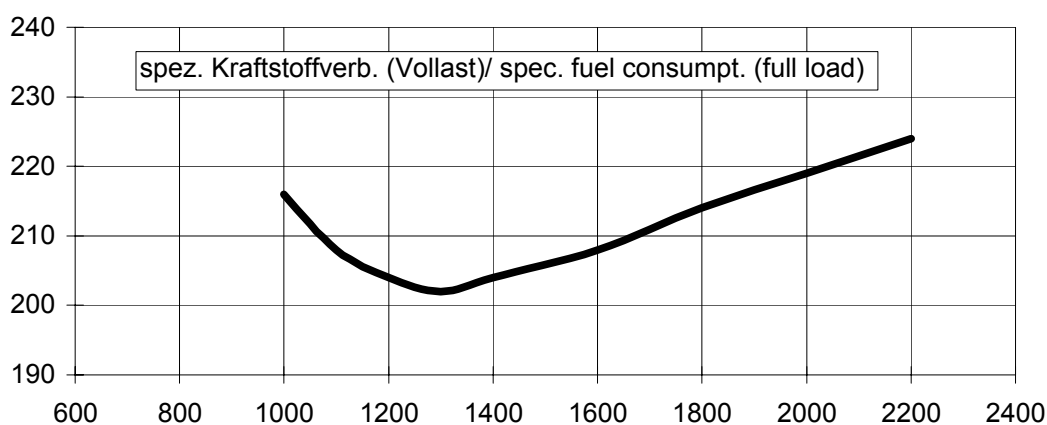
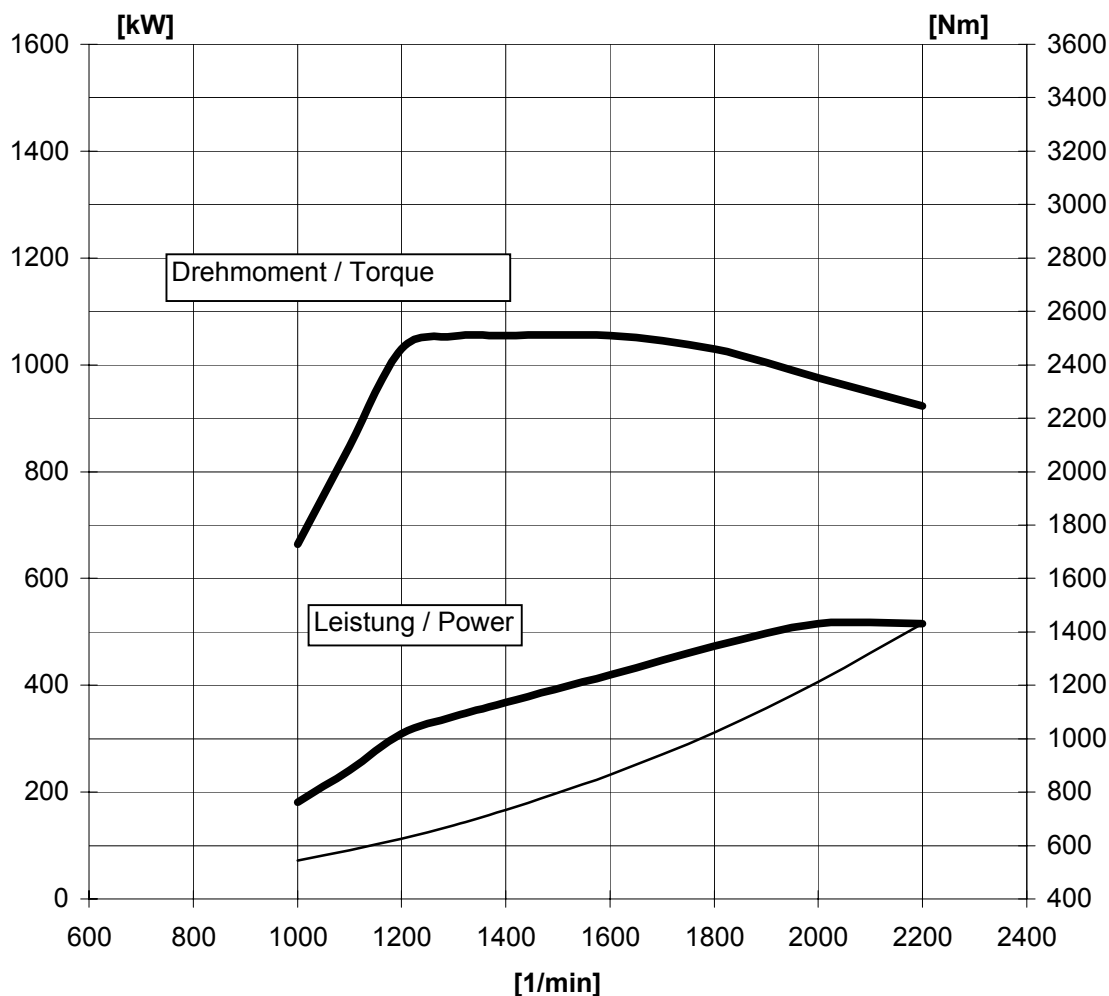
Maximum permissible seawater temperature : 305 K (32° Celsius)

Technical data are subjekt to alterations.



Leistungsdiagramm und Kraftstoffverbrauch Performance Curve and Fuel Consumption

Motortyp
D2876LE401



Höchstleistung für Boote in Gleiterausführung: 515 kW bei 2200 1/min
 Maximum output for boats with planning hull: 515 kW at 2200 rpm

Leistungsangaben gemäß Bezugszustand DIN 6271 / ISO 3046/1
 The ratings are based on reference conditions according to DIN 6271 / ISO 3046/1

Propellerkurve basiert auf Exponent 2,50

Propeller curve calculated at 2,50 exponent

MVMT 01.03.02