



Diesel engine D 2876 LE404
Technical Data

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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 | |
| | | standard oil sump (min.): | 26 l |
| | | standard oil sump (max.): | 30 l |
| Compression ratio: | 15,0:1 | | |
| Cooling water temperature: | | Inertia moments (SI-Unit): | |
| - under normal conditions | 90° C | - engine and vibration damper : | |
| - short period under | | - flywheel for : | |
| extreme conditions | 95° C | variable speed : | |
| - before start of | | marine propulsion engine | 1,975kgm ² |
| full load (min.) | 60° C | | |
| 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 | 463 |
| | HP | 630 |
| Exhaust status | | IMO/ZKR |
| Mean effective pressure | bar | 19,7 |
| Torque | Nm | 2010 |
| 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 | 226 |
| Lube oil consumption max. | g/h | 480 |
| Air for combustion | m ³ /h | 2110 |
| Negative pressure at air filter outlet, max. permissible | hPa | 130 |
| Exhaust gas heat | kW | 300 |
| Exhaust gas temperature | °C | 480 |
| Exhaust gas mass flow | kg/h | 2550 |
| Exhaust gas volume flow | m ³ /h | 5510 |
| Exhaust gas back pressure max. permissible | hPa | 80 |
| Jacket water heat incl. water-cooled exhaust manifold | kW | 300 |
| Minimum cooling water circulation | l/min | 810 |
| Intercooler heat rate | kW | 86 |
| 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 | 97 |



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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.

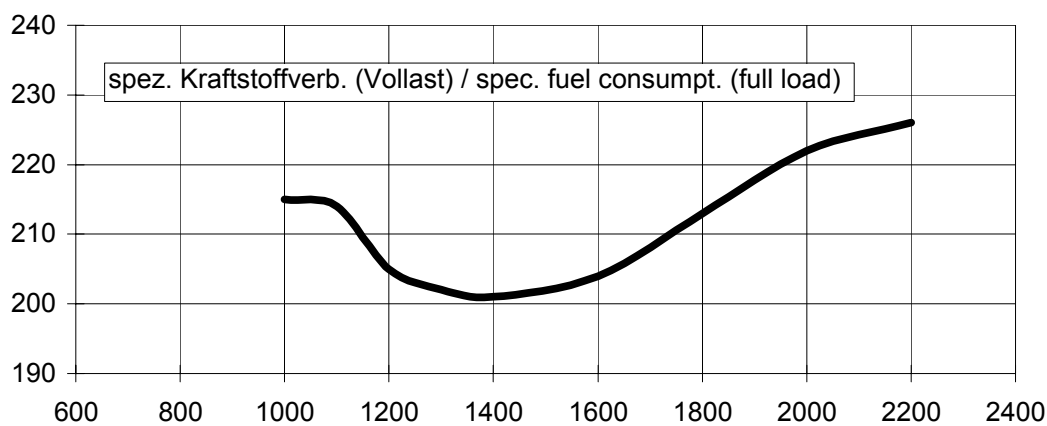
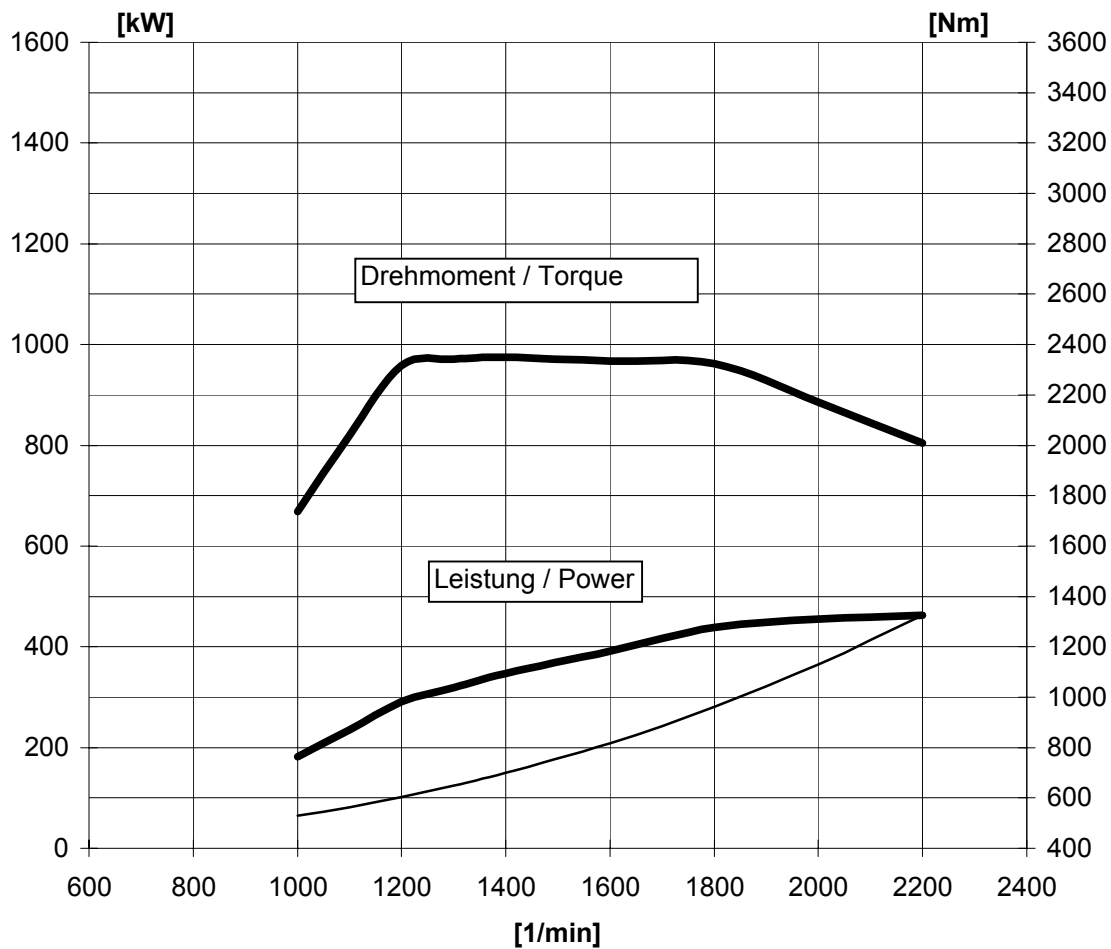
Maximum permissible seawater temperature : 305 K (32° Celsius)

Technical data are subjekt to alterations.



Leistungsdiagramm und Kraftstoffverbrauch Performance Curve and Fuel Consumption

Motortyp
D2876LE404



Höchstleistung für Boote in Gleiterausführung: 463 kW bei 2200 1/min
 Maximum output for boats with planning hull: 463 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

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