



Technical data sheet

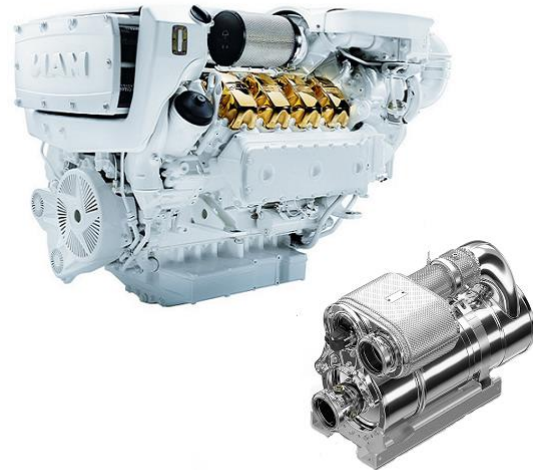
21.08.2023

(Version 1)

Marine diesel engine
D2868LE469 (V8-1300)

Performance data

Rated power	956	kW
Rated power	1300	PS
Speed	2300	rpm
Bore/Stroke	128/157	mm
Displacement	16,16	liter
Rated torque	3970	Nm
Maximum torque	4230	Nm
at speed	1300-2100	rpm
Compression ratio [ε]	17,0	:1
Mean effective pressure	30,87	bar
Mean piston speed	12,04	m/s



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

Consumption data ²

Specific fuel consumption ¹	228	g/kWh
Absolute fuel consumption ¹	259	l/h
Lowest fuel consumption ³	200	g/kWh
Absolute urea consumption ¹	10	l/h

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 diesel with exhaust after-treatment system (SCR), SAE 1 flywheel housing
Cylinders	8 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 cm ³ (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 III, EPA Tier 3 recreational

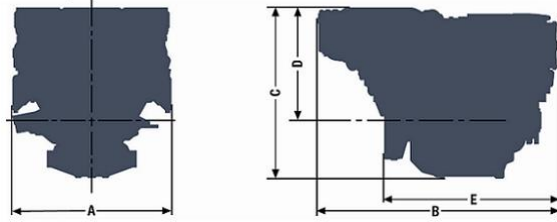
¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046), urea solution 32,5% according to ISO 22241 (tolerance +3%)

³ Values on propeller curve

D2868LE469 (V8-1300)

A - overall width.....	1181 mm
B - overall length.....	1807 mm
C - overall height.....	1253 mm
D - above crank shaft.....	845 mm
E - length to flywheel.....	1286 mm
Engine weight, dry.....	1941 kg
(depending on the scope of supply)	



Combustion parameters ¹

Intake air temperature (max)	45 °C
Intake air vacuum (min/max)	30/60 mbar
Intake air volume flow	3940 m ³ /h
Exhaust gas temperature	500 °C
Exhaust gas volume flow	10520 m ³ /h
Exhaust gas mass flow	4670 kg/h
Exhaust back pressure (min/max) downstream of SCR catalyst	20/80 mbar

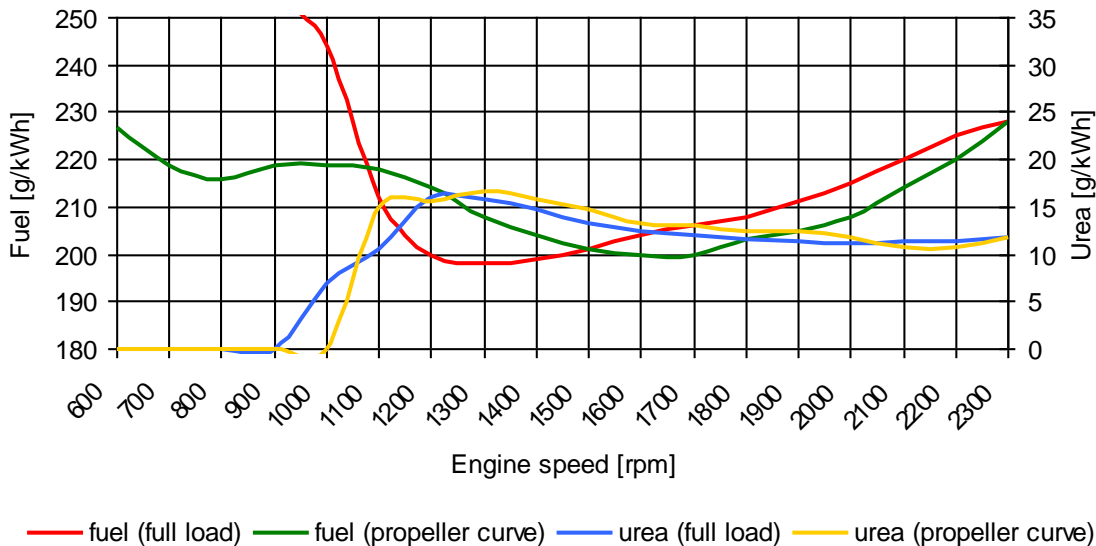
Heat balance ¹

Exhaust gas heat	700 kW
Cooling water heat	690 kW
Intercooler heat	220 kW
Radiation heat	33 kW

Noise emission (sound power) ¹

Engine surface noise (Lwa)	120,8 dB(A)
Free exhaust noise (Lwa)	104,5 dB(A)

Specific 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 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), urea solution 32,5% according to ISO 22241 (tolerance +3%)

³ Values on propeller curve