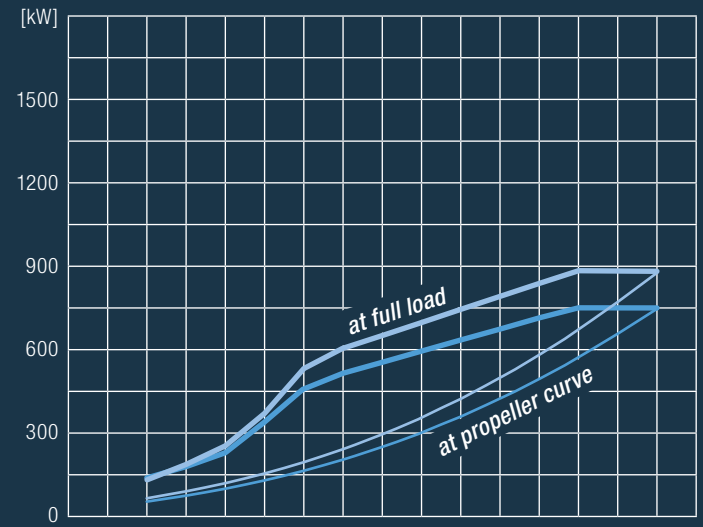
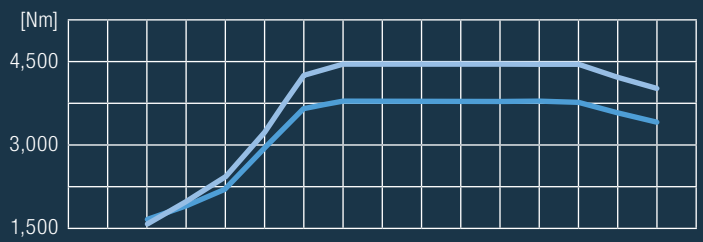
Power charts D2862.

D2862 LE 422 and D2862 LE 432

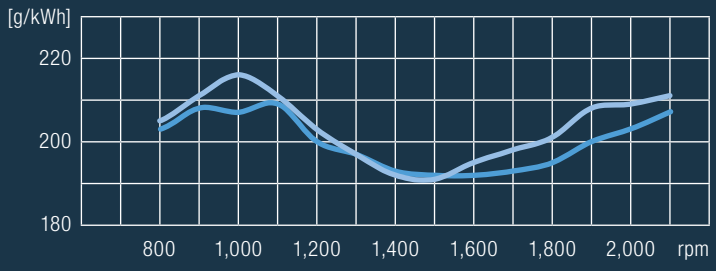
Power



Torque



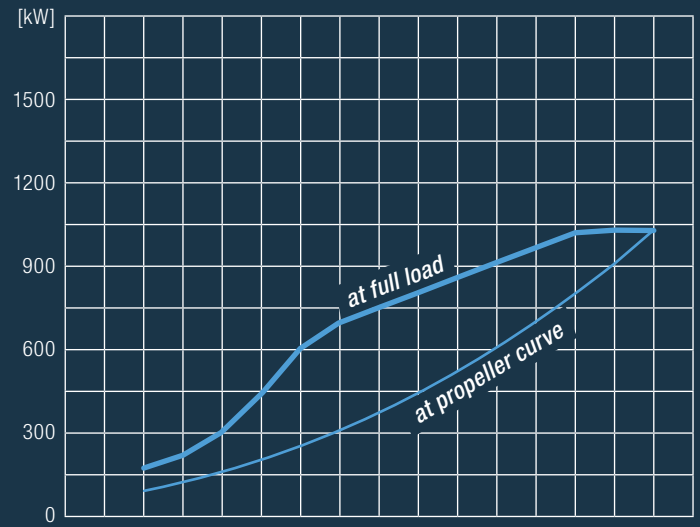
Specific fuel consumption (full load)



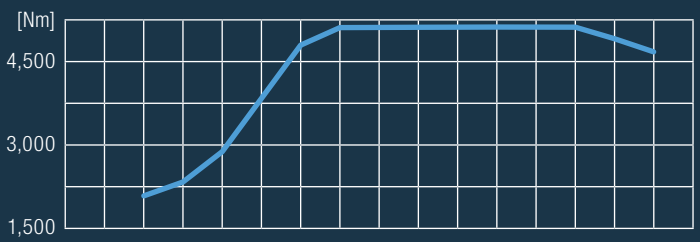
D2862 LE 422 with 749 kW (1,019 hp at 2,100 rpm)
D2862 LE 432 with 882 kW (1,200 hp at 2,100 rpm)

D2862 LE 463

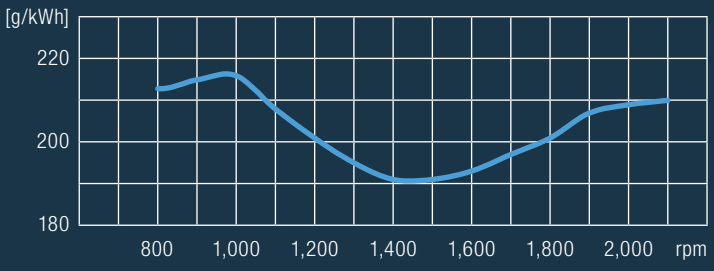
Power



Torque



Specific fuel consumption (full load)



D2862 LE 463 with 1,029 kW (1,400 hp at 2,100 rpm)

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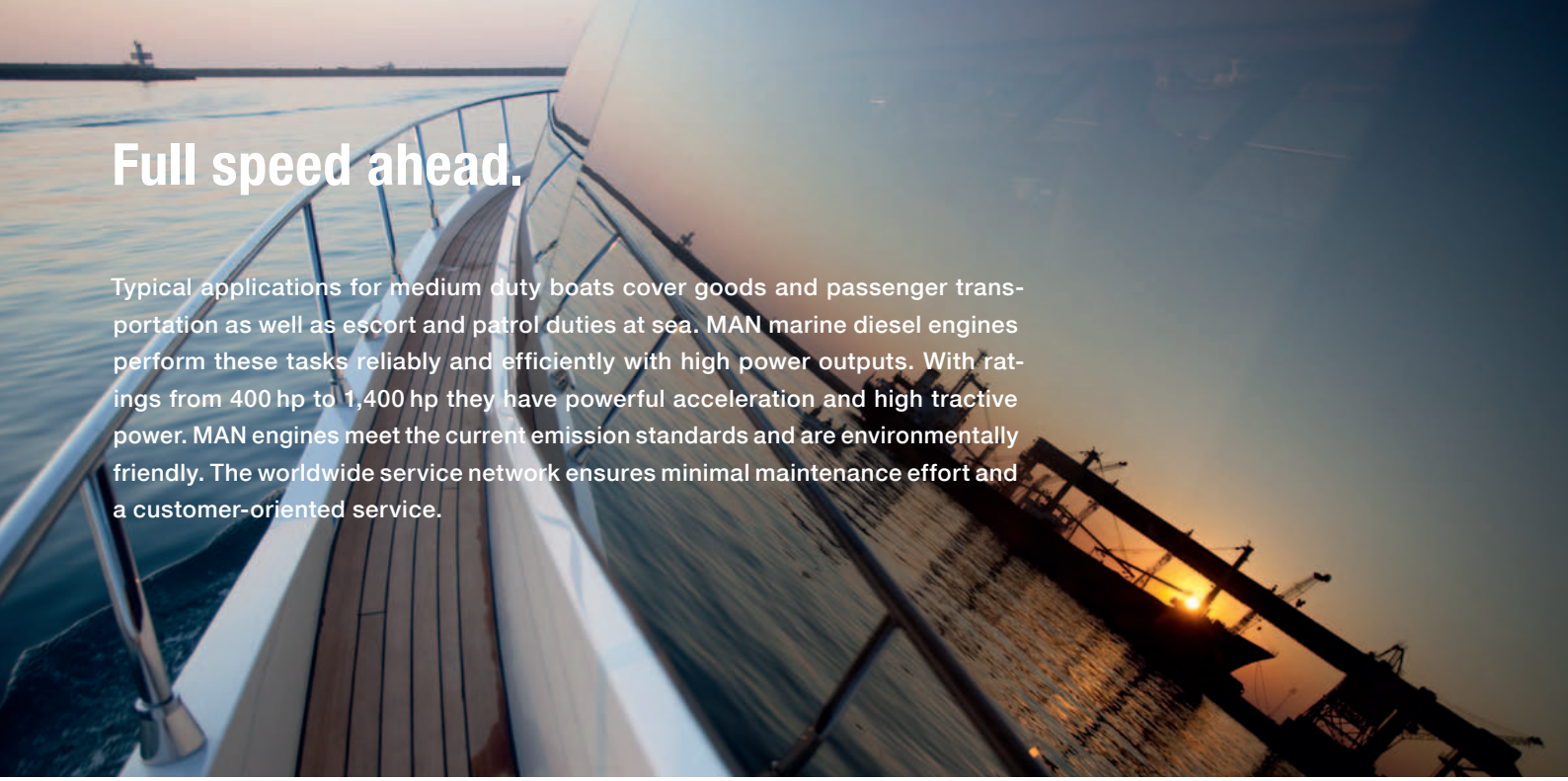
D2862.

MAN high speed marine engines for medium duty applications.



Full speed ahead.

Typical applications for medium duty boats cover goods and passenger transportation as well as escort and patrol duties at sea. MAN marine diesel engines perform these tasks reliably and efficiently with high power outputs. With ratings from 400 hp to 1,400 hp they have powerful acceleration and high tractive power. MAN engines meet the current emission standards and are environmentally friendly. The worldwide service network ensures minimal maintenance effort and a customer-oriented service.

Engine description D2862.

Characteristics

Cylinders and arrangement:	12 cylinders in 90° V design
Operation mode:	4-stroke diesel engine, watercooled
Turbocharging:	Exhaust turbocharger with intercooler
Number of valves:	4 valves per cylinder, replaceable
Fuel system:	Common Rail direct fuel injection with electronic control
Engine block:	High-strength casting with integrated oil and water ducts and replaceable cylinder liners
Engine lubrication:	Closed system with forced feeding, oil cooling and filtering
Type of cooling:	Plate heat exchanger seawater cooled
Engine control:	Electronic injection control (EDC) Electronic engine monitoring including diagnostic unit
Exhaust gas status:	IMO Tier 2, RCD 94/25/EC, EPA Tier 2 com, 97/68/EC
Fuel:	DIN EN 590

Definition of medium duty operation

Annual operating hours:	≤ 3,000
Percentage of time at full load:	≤ 50 % (LE 422/LE 432) ≤ 20 % (LE 463)
Average load application:	≤ 70 % (LE 422/LE 432) ≤ 50 % (LE 463)
Particular operation conditions:	no wide-open throttle below rated speed

Typical applications

- Escort boats and pilot boats
- Fishing boats
- Passenger boats and ferries
- Cruising vessels
- Seagoing patrol boats

MAN engines have outstanding qualities

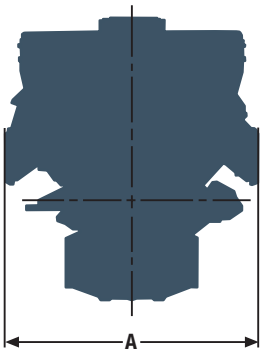
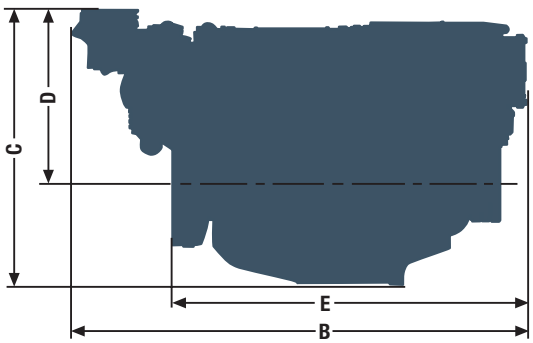
- High tractive power even at low speeds
- Powerful acceleration and rapid reaction to commands
- High performance combined with low weight
- Compact, space-saving design
- High efficiency owing to low fuel consumption
- Low running costs and long service life
- Low emission values
- World-wide service network with rapid supply of spare parts

Technical features D2862

Type of engine		LE 422	LE 432	LE 463
Bore	mm	128	128	128
Stroke	mm	157	157	157
Displacement	l	24.24	24.24	24.24
Compression ratio		19 : 1	19 : 1	17 : 1
Rotation looking on flywheel		left	left	left
Flywheel housing		SAE 1	SAE 1	SAE 1
Nominal rating [1]	kW (hp)	749 (1,019)	882 (1,200)	1,029 (1,400)
Rated speed	rpm	2,100	2,100	2,100
Torque at rated speed	Nm	3,406	4,010	4,680
Maximum torque	Nm	3,780	4,450	5,120
at speed	rpm	1,300–1,900	1,300–1,900	1,300–1,900
Specific fuel consumption [2]	g/kWh	207	211	210
Fuel consumption [2]	l/h	185	222	257
Classifiable		✓	✓	✓

1) The rating is according to DIN 3046/1.

2) Consumption at rated power.

Dimensions		LE 422/432/463
A-Overall width of engine	mm	1,270
B-Overall length of engine	mm	2,230
C-Overall height of engine	mm	1,290
D-Top of engine to crankshaft centre	mm	825
E-Length of engine from front end to edge of flywheel housing	mm	1,614
Average weight of engine ready for installation (dry)	kg	2,270

For detailed examinations of installation dimensions, please order drawings from our factory.