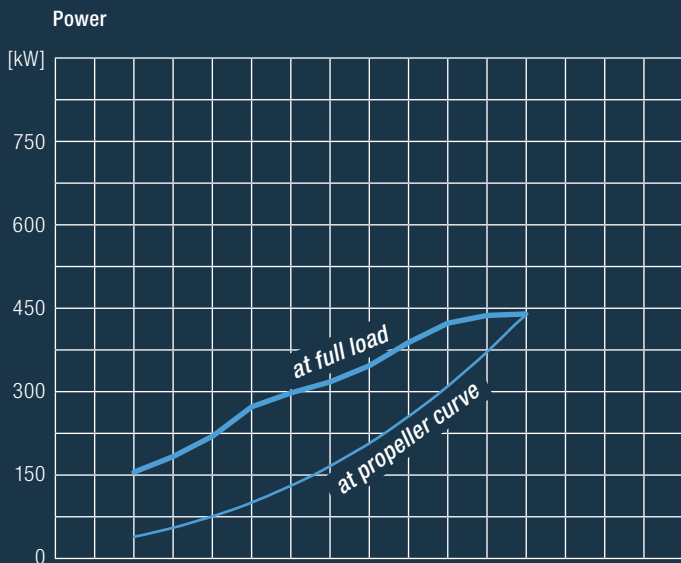
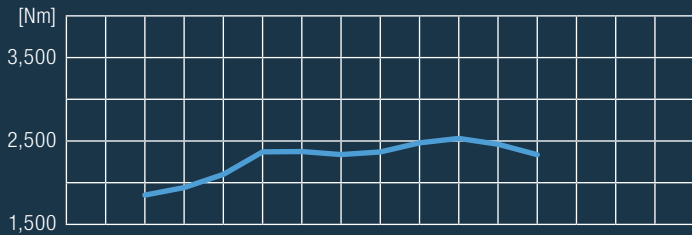


Power charts D2842.

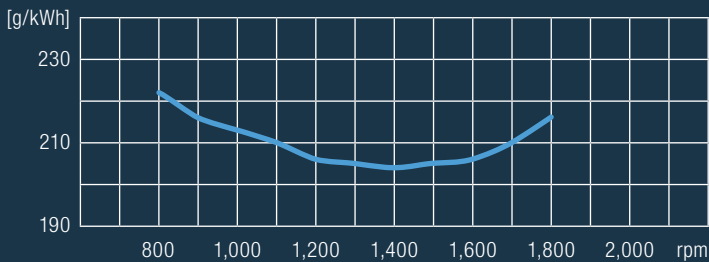
D2842 LE 419



Torque

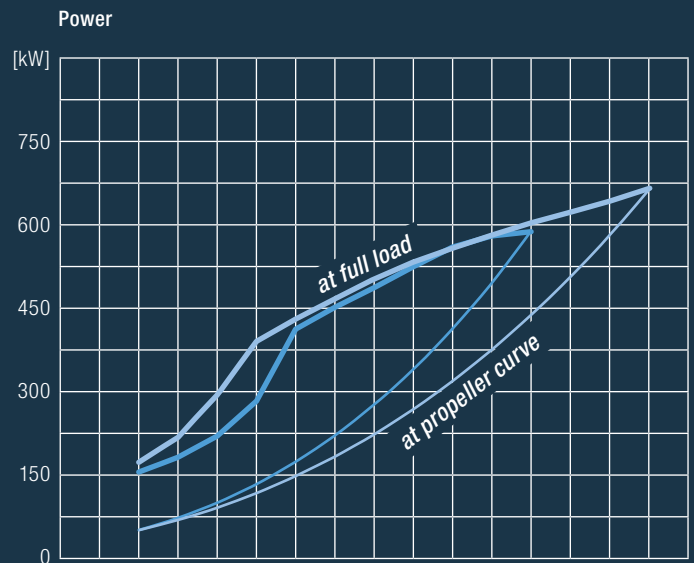


Specific fuel consumption (full load)

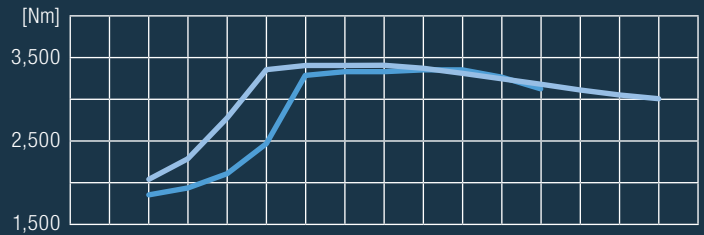


■ D2842 LE 419 with 440 kW (598 hp at 1,800 rpm)

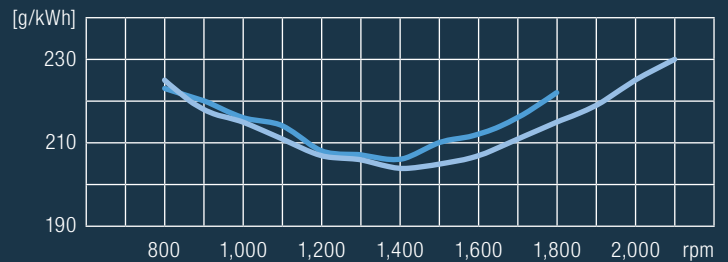
D2842 LE 412 and D2842 LE 405



Torque



Specific fuel consumption (full load)



■ D2842 LE 412 with 588 kW (800 hp at 1,800 rpm)

■ D2842 LE 405 with 662 kW (900 hp at 2,100 rpm)

D 114.531 · mu 08114 · Printed in Germany

Text and illustrations are non-binding.

We reserve the right to make modifications for reasons of technical progress.

MAN Truck & Bus AG

Sales Engines & Components

Vogelweiherstraße 33

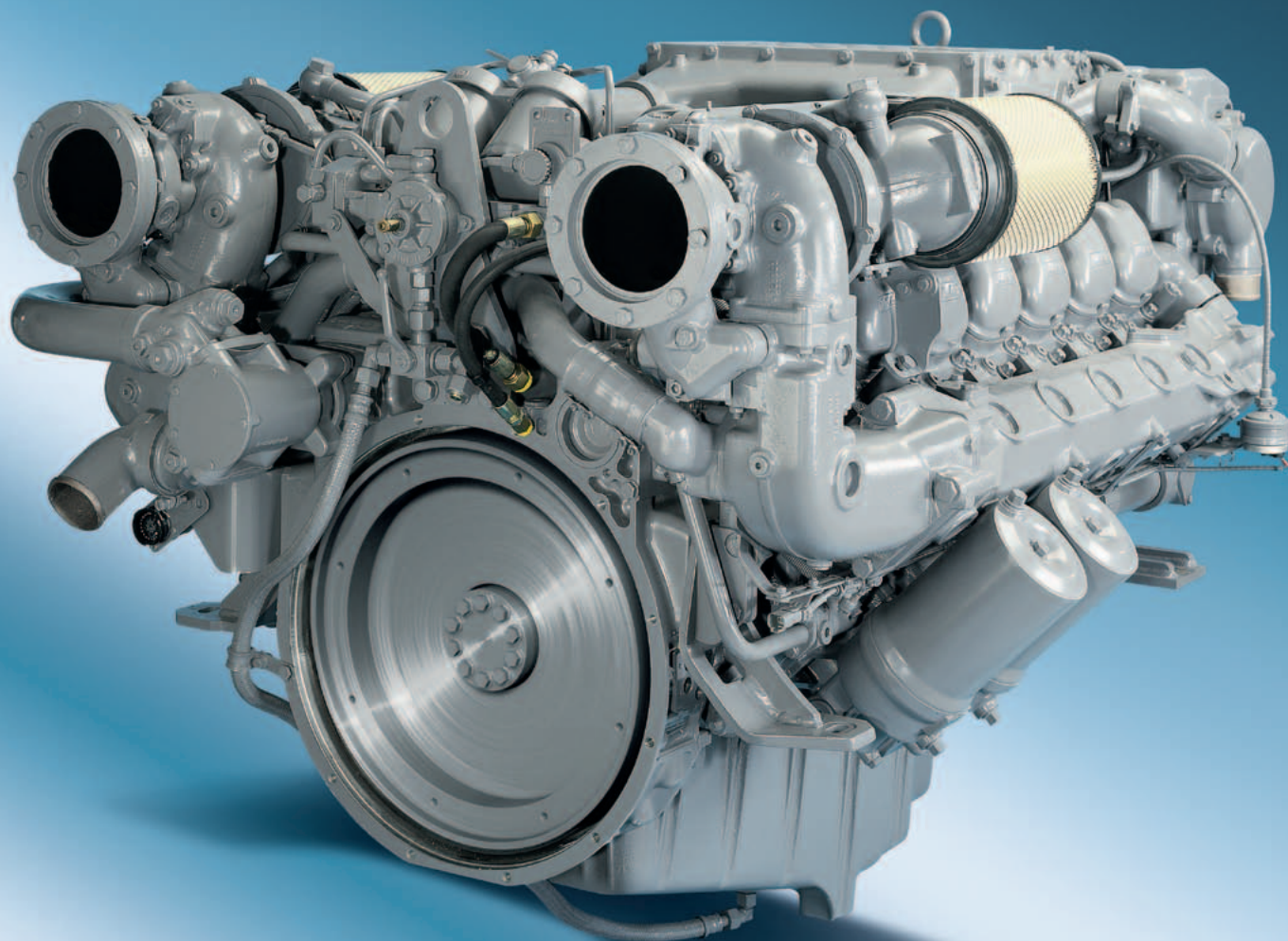
90441 Nürnberg

marinemotor@man.eu

www.man-engines.com

A member of the MAN Group





D2842.

MAN high speed marine engines for heavy duty applications.



Full speed ahead.

Typical applications for marine heavy duty operation cover passenger and goods transportation as well as escort and patrol duties at sea. MAN marine diesel engines from 258 hp to 900 hp perform these tasks reliably and efficiently. They meet the international current emission standards and are environmentally friendly. The worldwide service network ensures minimal maintenance effort and a customer-oriented service.

Engine description D2842.

Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Exhaust turbocharger with intercooler, boost pressure control with waste gate
- Number of valves: 2 valves per cylinder, replaceable
- Fuel system: Direct fuel injection with Bosch injection pump
- 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: Heat exchanger with seawater pump fitted, alternatively equipment for keel cooling
- Engine control: Electronic engine monitoring for LE419/LE412/LE405
- Exhaust gas status: IMO Tier 2, 97/68/EC for LE412/LE419
- Fuel: DMX fuel to ISO 8217, DIN EN 590

Definition of heavy duty operation

- Annual operating hours: unlimited
- Percentage of time at full load: $\leq 100\%$
- Average load application: $\leq 100\%$

Typical applications

- Trawlers
- Tugs and pushboats
- Freight barges and freighters
- Ferries
- Dredgers

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 D2842

Type of engine		LE 419	LE 412	LE 405	
Bore	mm	128	128	128	
Stroke	mm	142	142	142	
Displacement	l	21.93	21.93	21.93	
Compression ratio		15.5:1	15.5:1	15.5:1	
Rotation looking on flywheel		left	left	left	
Flywheel housing		SAE 1	SAE 1	SAE 1	
Nominal rating ¹⁾		kW (hp)	440 (598)	588 (800)	662 (900)
Rated speed	rpm	1,800	1,800	2,100	
Torque at rated speed	Nm	2,334	3,120	3,010	
Maximum torque	Nm	2,530	3,340	3,400	
at speed	rpm	1,600	1,200–1,600	1,200–1,400	
Specific fuel consumption ²⁾	g/kWh	216	222	230	
Fuel consumption ²⁾	l/h	113	155	181	
Classifiable		✓	✓	✓	

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

2) Consumption at rated power.

Dimensions		LE 419/412/405
A-Overall width of engine	mm	1,230
B-Overall length of engine	mm	1,750
C-Overall height of engine	– flat oil pan	1,105
	– deep oil pan	1,215
D-Top of engine to crankshaft centre	mm	685
E-Length of engine from front end to edge of flywheel housing	mm	1,491
Average weight of engine ready for installation (dry)	kg	1,790

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

