

D2876.

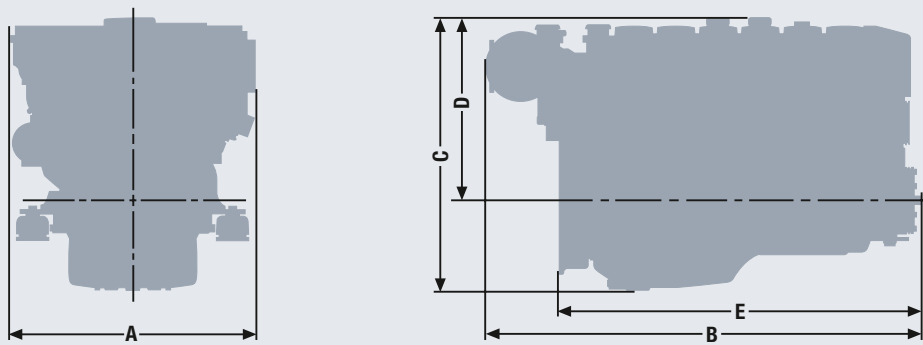
Technical data.

Technical features D2876

Type of engine		LE 402
Bore	mm	128
Stroke	mm	166
Displacement	l	12.82
Compression ratio		15.5:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Nominal rating ¹⁾	kW (hp)	412 (560)
Rated speed	rpm	2,100
Torque at rated speed	Nm	1,873
Maximum torque	Nm	2,095
at speed	rpm	1,200–1,800
Specific fuel consumption ²⁾	g/kWh	223
Fuel consumption ²⁾	l/h	109
Classifiable		✓

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

2) Consumption at rated power.



Dimensions D2876

Type of engine		LE 402
A-Overall width of engine	mm	877
B-Overall length of engine	mm	1,605
C-Overall height of engine	mm	1,000
	– flat oil pan	
	– deep oil pan	1,080
D-Top of engine to crankshaft centre	mm	665
E-Length of engine from front end to edge of flywheel housing	mm	1,320
Average weight of engine ready for installation (dry)	kg	1,290

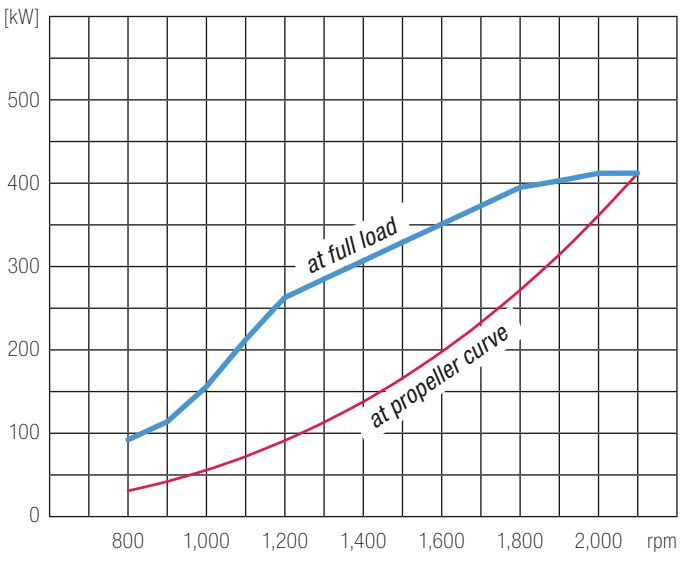
For detailed examinations of installation dimensions, please order drawings from our factory.

D2876.

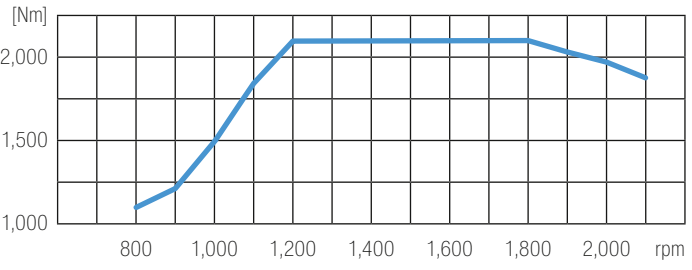
Power charts.

D2876 LE 402

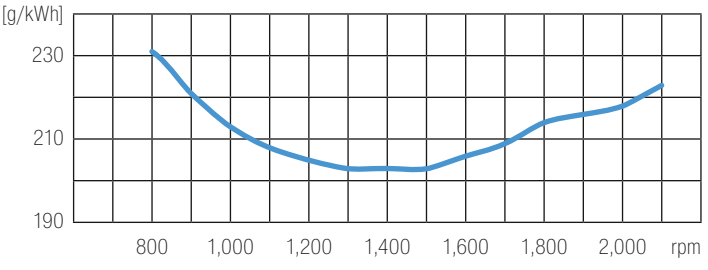
Power



Torque



Specific fuel consumption (full load)



■ D2876 LE 402 with 412 kW (560 hp at 2,100 rpm)



D2848.

Engine description.

Characteristics

- Cylinders and arrangement: 8 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: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection
- 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: Seawater cooled heat exchanger
- Engine control: Electronic injection control
Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, SAV/BSO, 97/68/EC
- Fuel: DIN EN 590

D2848.

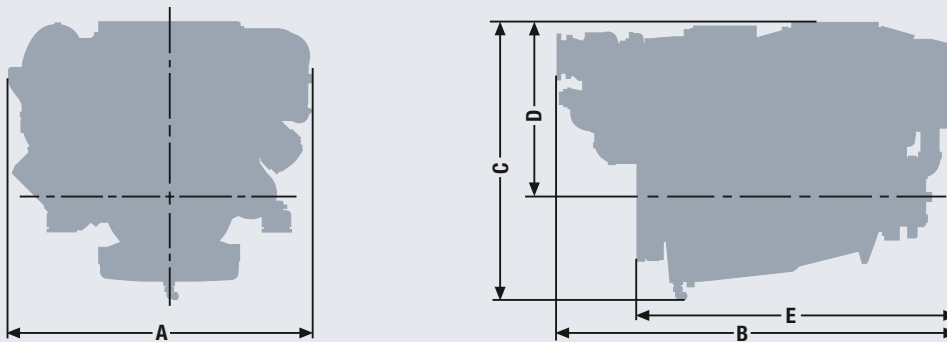
Technical data.

Technical features D2848

Type of engine		LE 422
Bore	mm	128
Stroke	mm	142
Displacement	l	14.62
Compression ratio		15.5:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Maximum output ¹⁾	kW (hp)	551 (750)
Rated speed	rpm	2,100
Torque at rated speed	Nm	2,506
Maximum torque	Nm	2,730
at speed	rpm	1,400–1,800
Specific fuel consumption ²⁾	g/kWh	221
Fuel consumption ²⁾	l/h	145
Classifiable		–

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

2) Consumption at rated power.



Dimensions D2848

Type of engine		LE 422
A-Overall width of engine	mm	1,240
B-Overall length of engine	mm	1,546
C-Overall height of engine	mm	1,173
D-Top of engine to crankshaft centre	mm	789
E-Length of engine from front end to edge of flywheel housing	mm	1,175
Average weight of engine ready for installation (dry)	kg	1,565

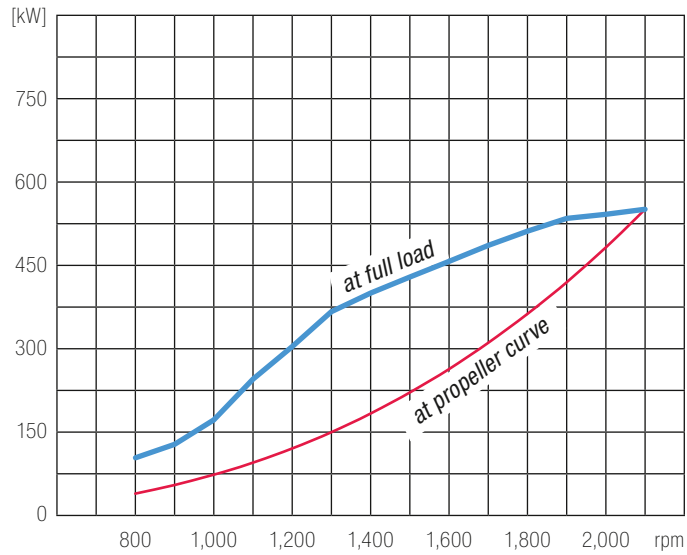
For detailed examinations of installation dimensions, please order drawings from our factory.

D2848.

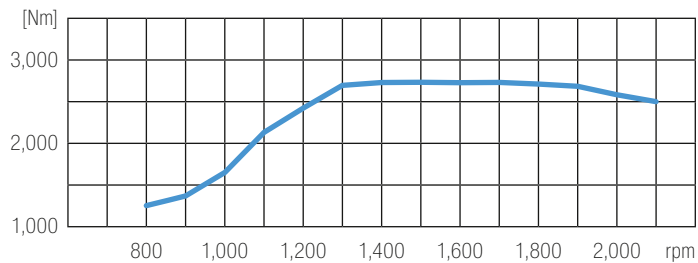
Power charts.

D2848 LE 422

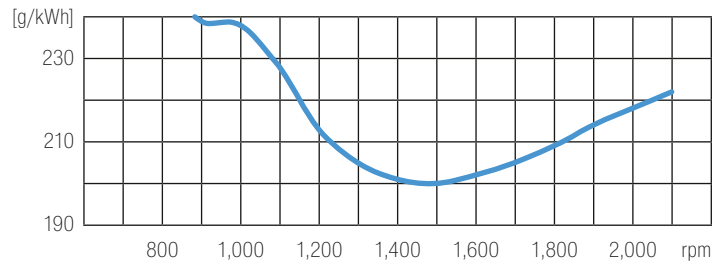
Power



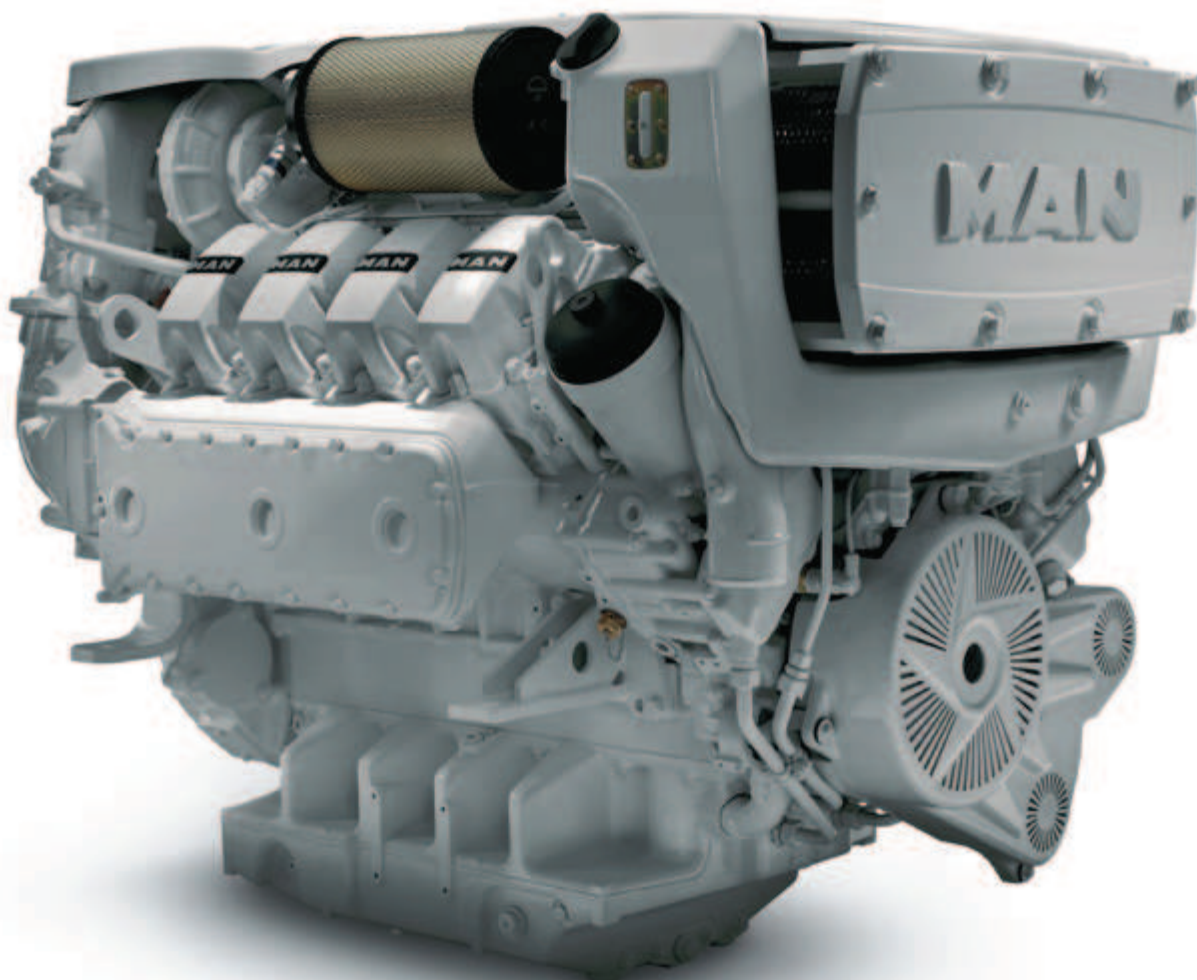
Torque



Specific fuel consumption (full load)



■ D2848 LE 422 with 551 kW (750 hp at 2,100 rpm)



D2868.

Engine description.

Characteristics

- Cylinders and arrangement: 8 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Exhaust turbocharger with intercooler, boost pressure control with wastegate
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection
- 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
Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, SAV/BSO, 97/68/EC
- Fuel: DIN EN 590

D2868.

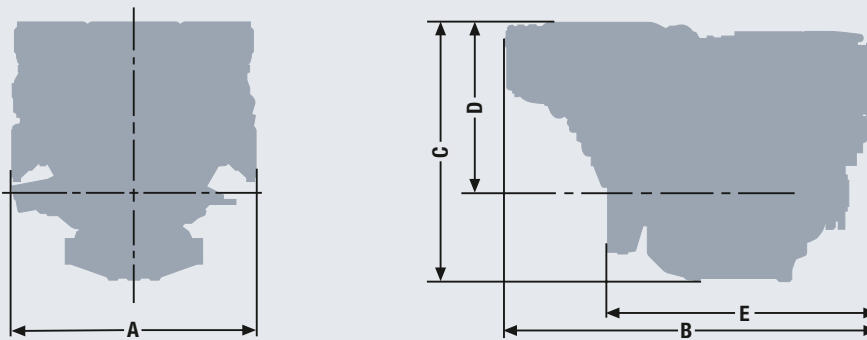
Technical data.

Technical features D2868

Type of engine		LE 422
Bore	mm	128
Stroke	mm	157
Displacement	l	16.16
Compression ratio		19:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Maximum output ¹⁾	kW (hp)	588 (800)
Rated speed	rpm	2,100
Torque at rated speed	Nm	2,674
Maximum torque	Nm	2,945
at speed	rpm	1,200–1,900
Specific fuel consumption ²⁾	g/kWh	208
Fuel consumption ²⁾	l/h	146
Classifiable		✓

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

2) Consumption at rated power.



Dimensions D2868

Type of engine		LE 422
A-Overall width of engine	mm	1,150
B-Overall length of engine	mm	1,740
C-Overall height of engine	mm	1,240
D-Top of engine to crankshaft centre	mm	825
E-Length of engine from front end to edge of flywheel housing	mm	1,243
Average weight of engine ready for installation (dry)	kg	1,800

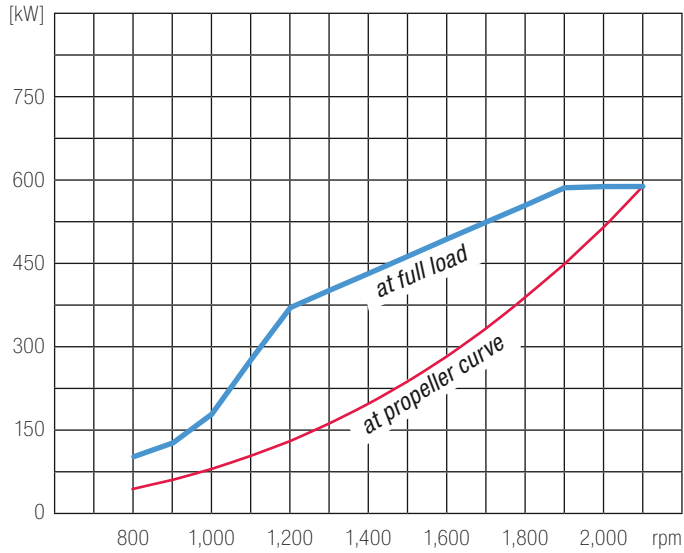
For detailed examinations of installation dimensions, please order drawings from our factory.

D2868.

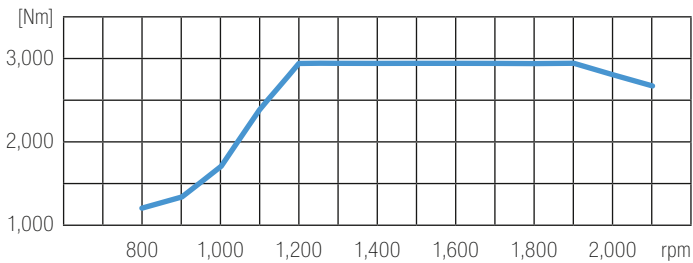
Power charts.

D2868 LE 422

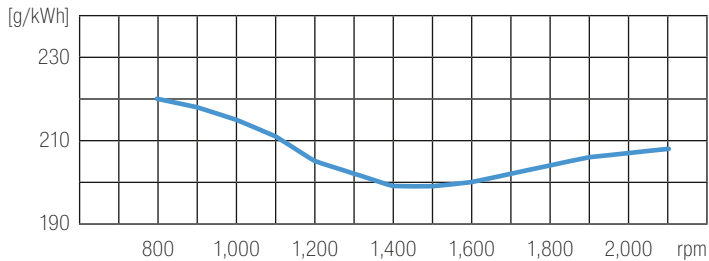
Power



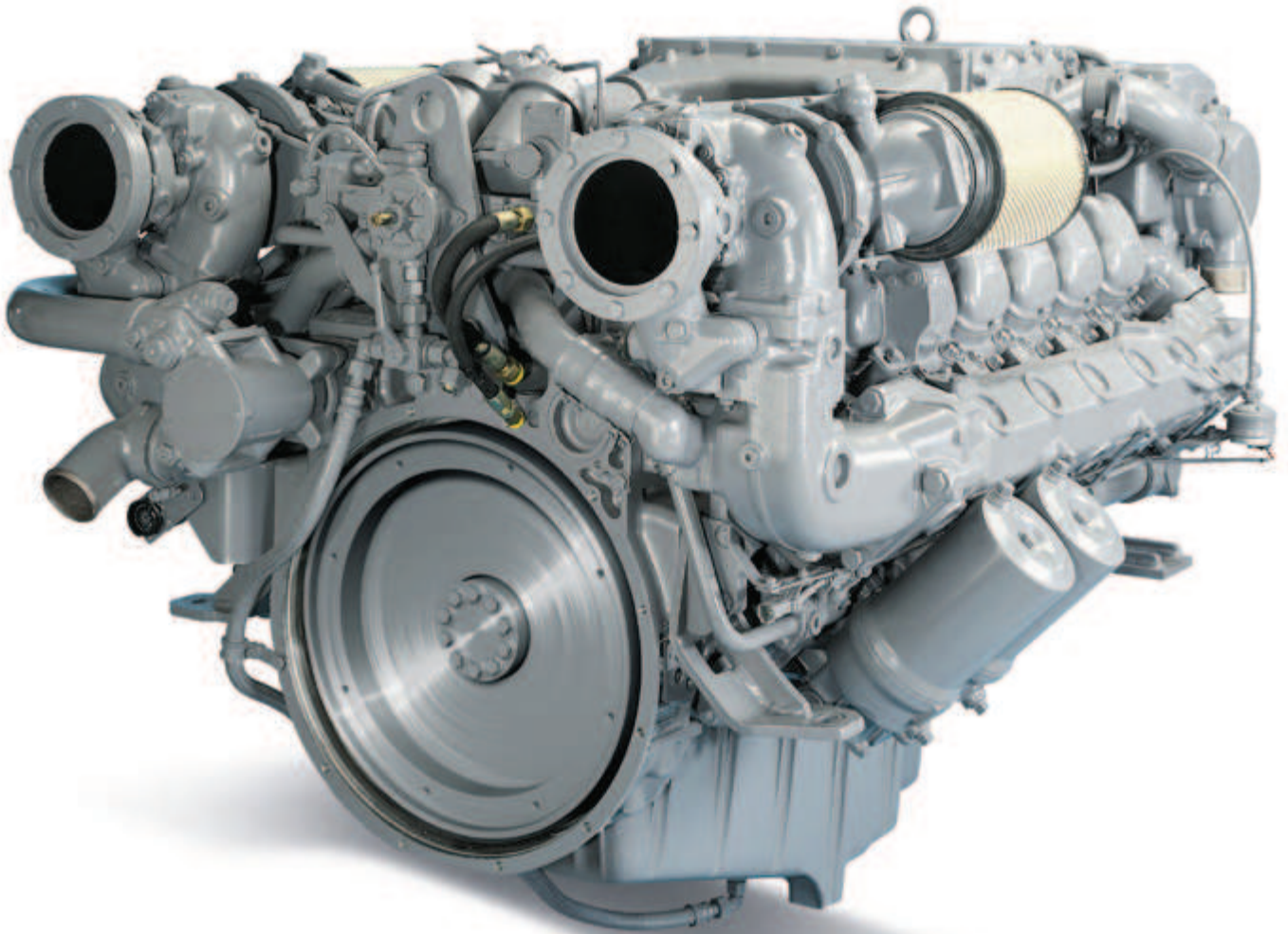
Torque



Specific fuel consumption (full load)



■ D2868 LE 422 with 588 kW (800 hp at 2,100 rpm)



D2842.

Engine description.

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
- 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: Seawater cooled heat exchanger
- Engine control: Electronic injection control for LE 410
Electronic engine monitoring unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC
On request: SAV and BSO for commercial application
- Fuel: DMX fuel to ISO 8217, DIN EN 590

D2842.

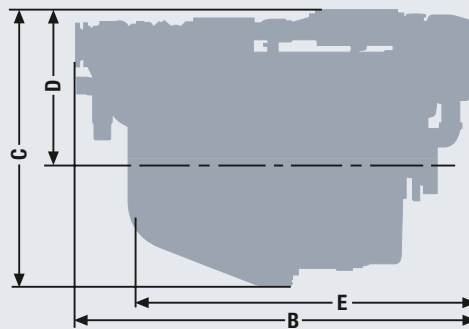
Technical data.

Technical features D2842

Type of engine		LE 410
Bore	mm	128
Stroke	mm	142
Displacement	l	21.93
Compression ratio		13.5:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Nominal rating ¹⁾	kW (hp)	749 (1,019)
Rated speed	rpm	2,100
Torque at rated speed	Nm	3,406
Maximum torque	Nm	3,700
at speed	rpm	1,300–1,900
Specific fuel consumption ²⁾	g/kWh	222
Fuel consumption ²⁾	l/h	198
Classifiable		✓

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

2) Consumption at rated power.



Dimensions D2842

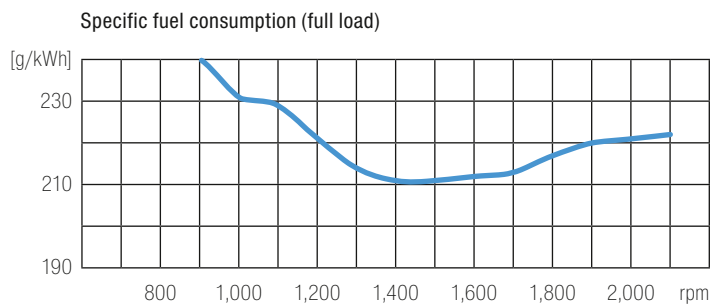
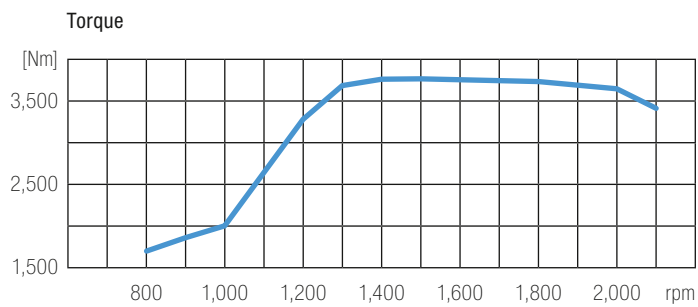
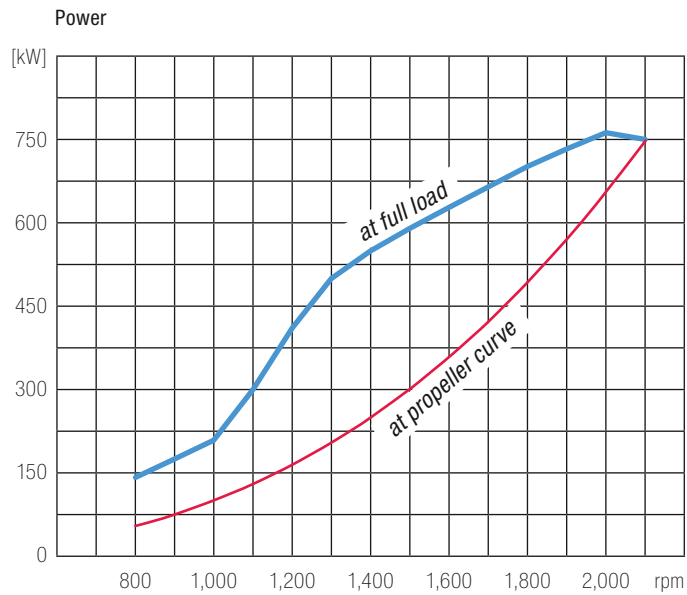
Type of engine		LE 410
A-Overall width of engine	mm	1,227
B-Overall length of engine	mm	1,795
C-Overall height of engine	mm	1,105
– flat oil pan	mm	1,216
– deep oil pan	mm	1,216
D-Top of engine to crankshaft centre	mm	685
E-Length of engine from front end to edge of flywheel housing	mm	1,492
Average weight of engine ready for installation (dry)	kg	1,860

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

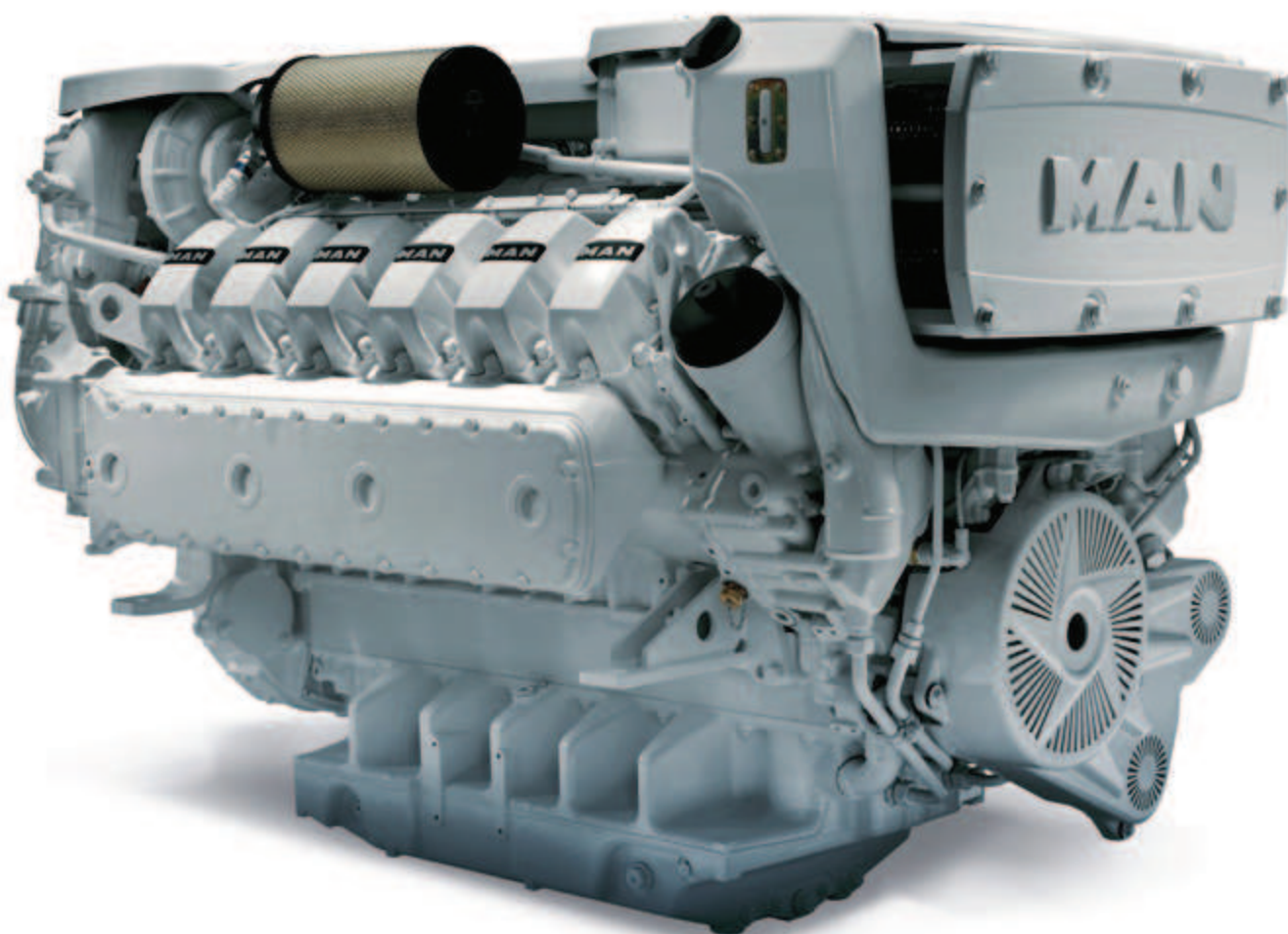
D2842.

Power charts.

D2842 LE 410



■ D2842 LE 410 with 749 kW (1,019 hp at 2,100 rpm)



D2862.

Engine description.

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: 4 valves per cylinder
- 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

D2862.

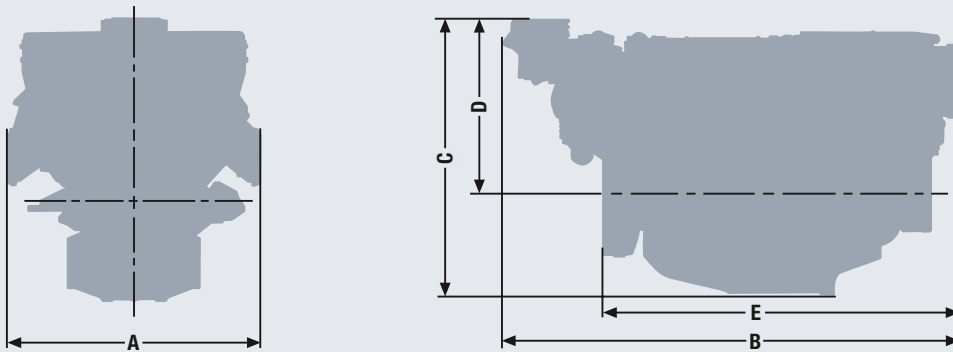
Technical data.

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 D2862

Type of engine		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

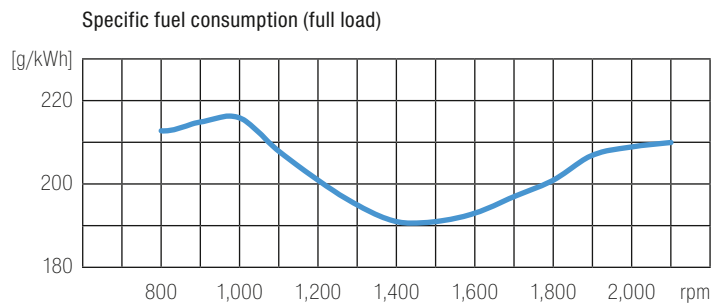
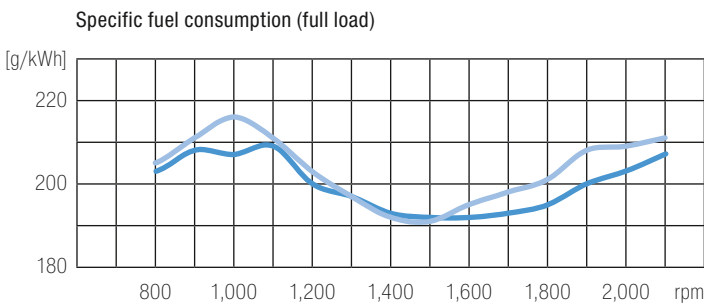
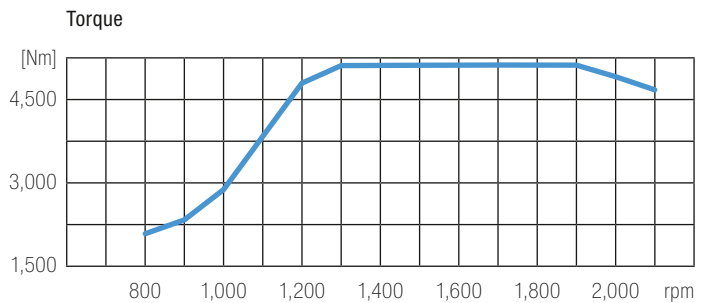
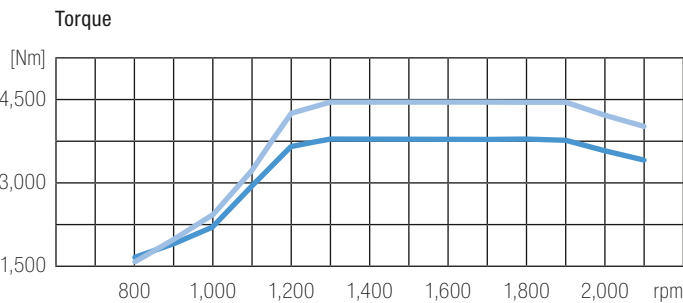
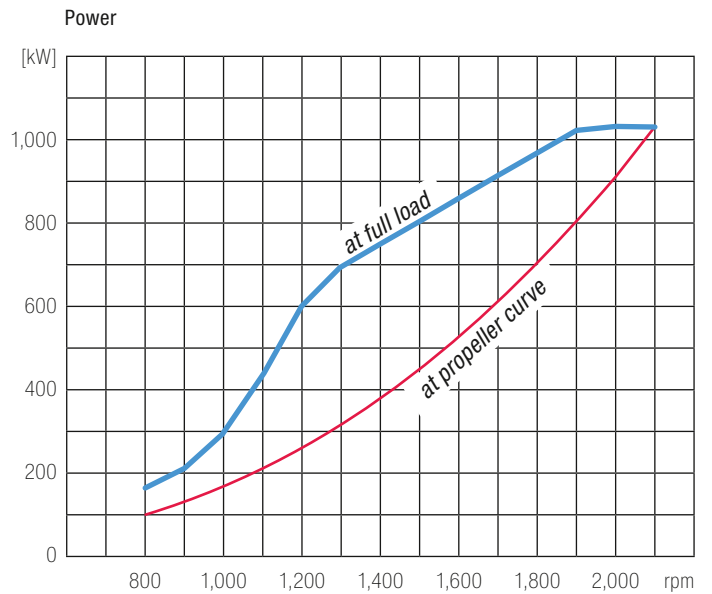
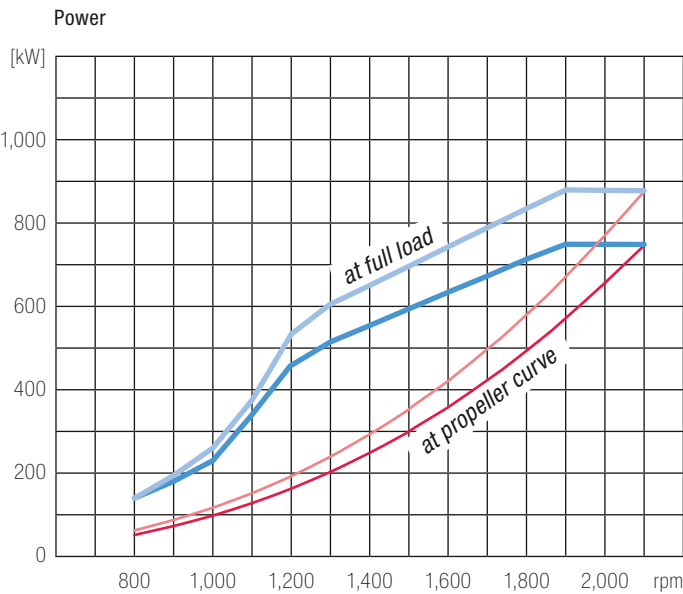
For detailed examinations of installation dimensions, please order drawings from our factory.

D2862.

Power charts.

D2862 LE 422 and D2862 LE 432

D2862 LE 463



- 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 with 1,029 kW (1,400 hp at 2,100 rpm)



Heavy duty operation.

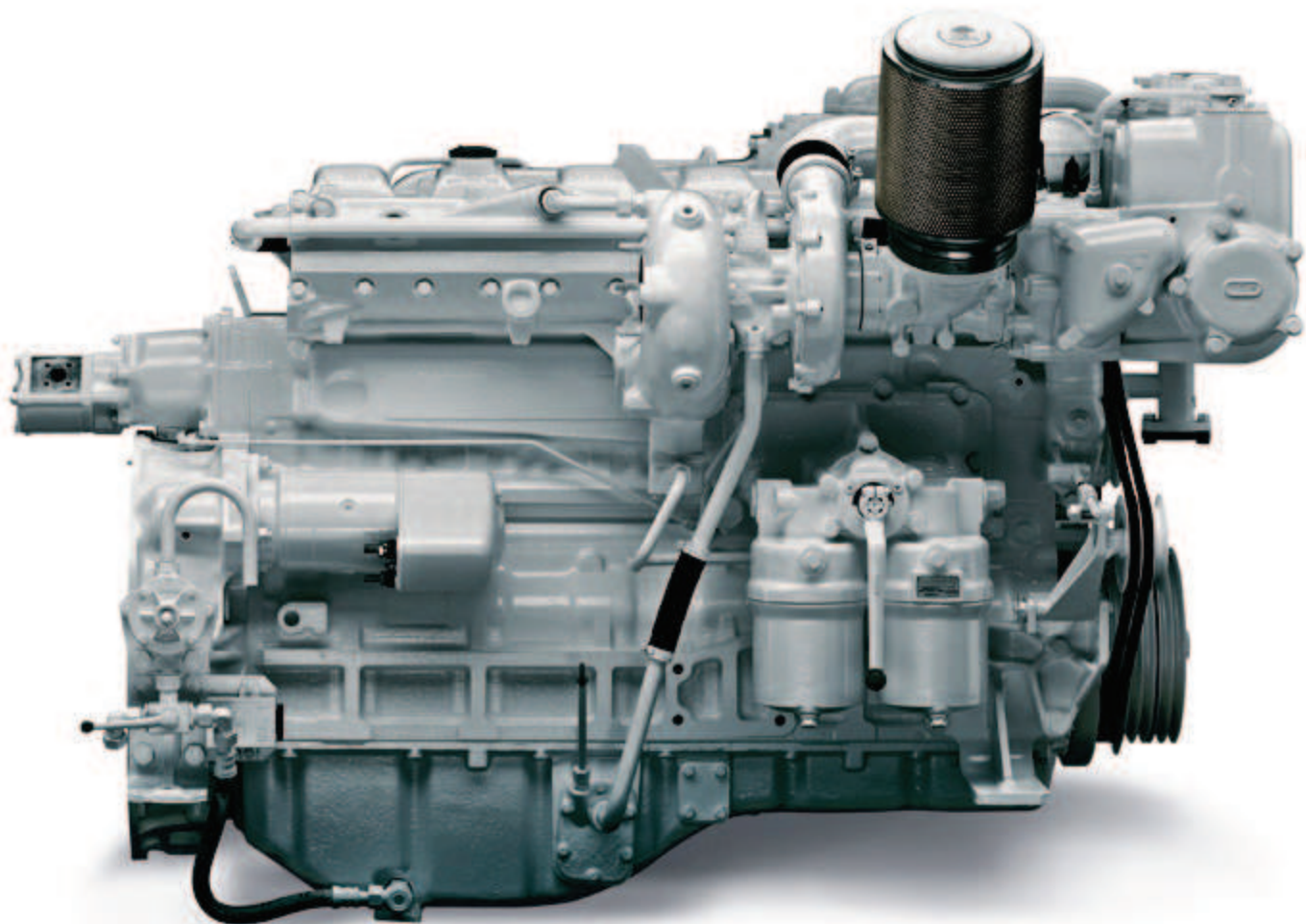
Definition of application type.

Characteristics

- 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



D2866.

Engine description.

Characteristics

- Cylinders and arrangement: 6 cylinders in-line
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Exhaust turbocharger with intercooler
- Number of valves: 2 valves per cylinder
- 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
- Exhaust gas status: IMO Tier 2, 97/68/EC, RCD 94/25/EC
- Fuel: DMX fuel to ISO 8217, DIN EN 590

D2866.

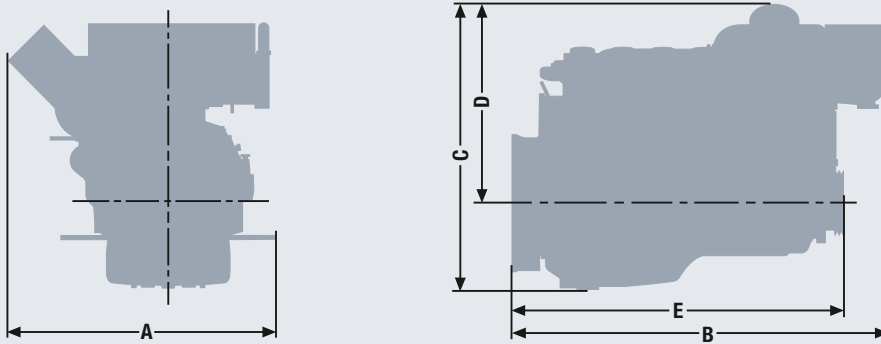
Technical data.

Technical features D2866

Type of engine		LXE 40	LXE 40
Bore	mm	128	128
Stroke	mm	155	155
Displacement	l	11.97	11.97
Compression ratio		15.5:1	15.5:1
Rotation looking on flywheel		left	left
Flywheel housing		SAE 1	SAE 1
Nominal rating ¹⁾	kW (hp)	190 (258)	279 (379)
Rated speed	rpm	1,800	1,800
Torque at rated speed	Nm	1,008	1,480
Maximum torque	Nm	1,055	1,555
at speed	rpm	1,500	1,400–1,500
Specific fuel consumption ²⁾	g/kWh	213	207
Fuel consumption ²⁾	l/h	48	69
Classifiable		✓	✓

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

2) Consumption at rated power.



Dimensions D2866

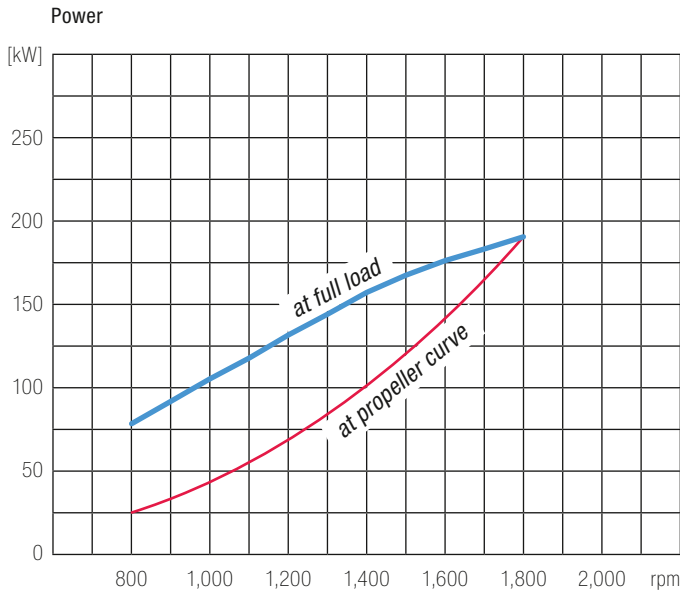
Type of engine		LXE 40
A-Overall width of engine	mm	855
B-Overall length of engine	mm	1,474
C-Overall height of engine	- flat oil pan	1,016
	- deep oil pan	1,244
D-Top of engine to crankshaft centre	mm	686
E-Length of engine from front end to edge of flywheel housing	mm	1,298
Average weight of engine ready for installation (dry)	kg	1,020

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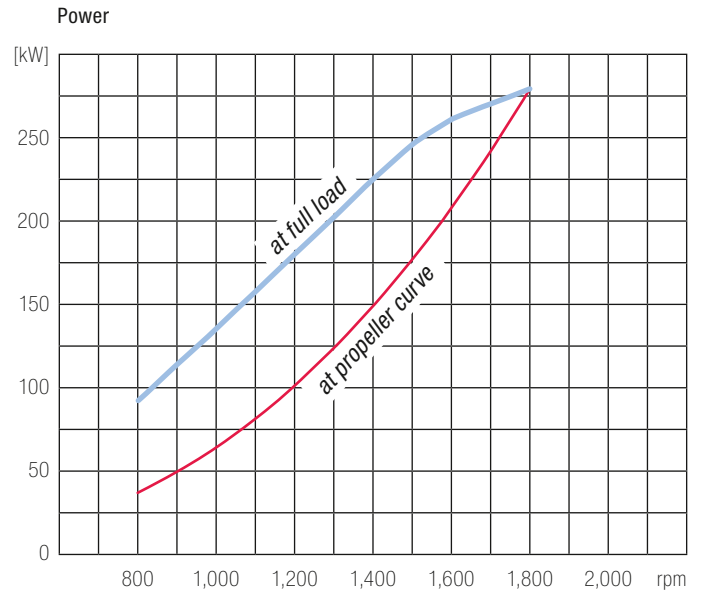
D2866.

Power charts.

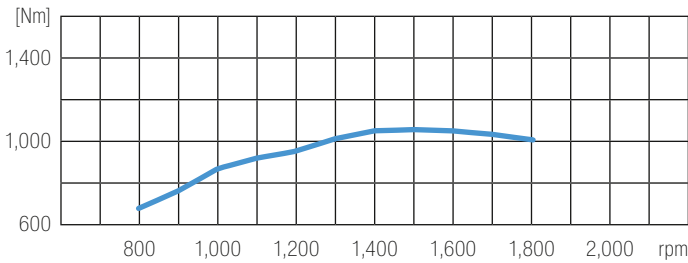
D2866 LXE 40 with 190 kW



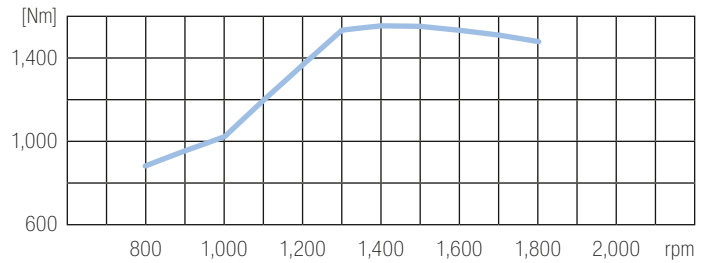
D2866 LXE 40 with 279 kW



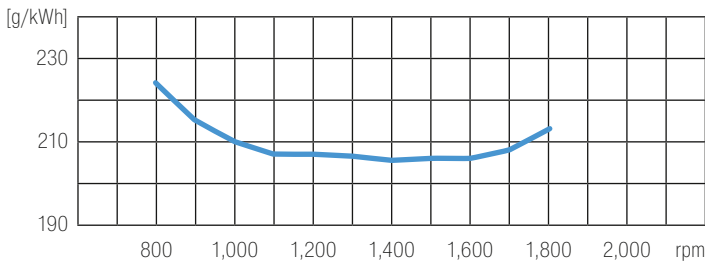
Torque



Torque

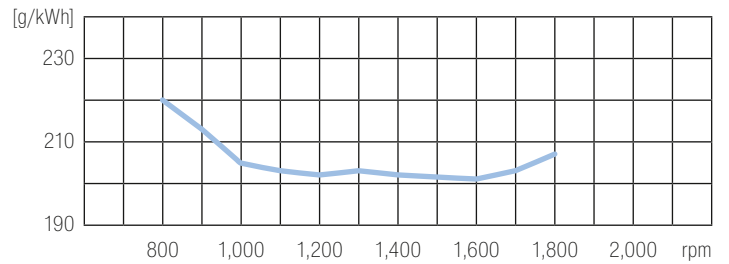


Specific fuel consumption (full load)

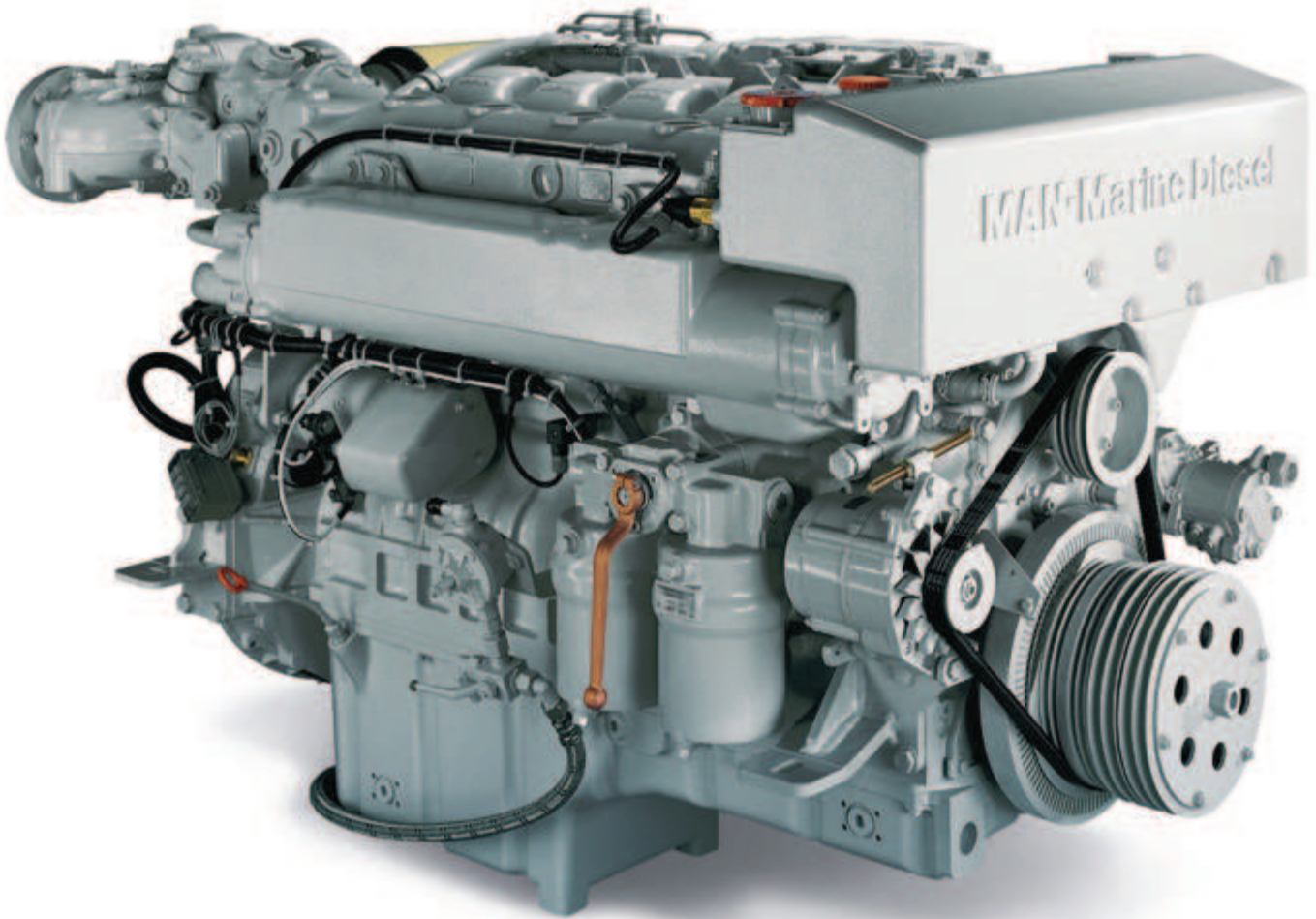


■ D2866 LXE 40 with 190 kW (258 hp at 1,800 rpm)

Specific fuel consumption (full load)



■ D2866 LXE 40 with 279 kW (379 hp at 1,800 rpm)



D2876.

Engine description.

Characteristics

- Cylinders and arrangement: 6 cylinders in-line
- 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
- 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
- Exhaust gas status: IMO Tier 2, 97/68/EC, RCD 94/25/EC
- Fuel: DMX fuel to ISO 8217, DIN EN 590

D2876.

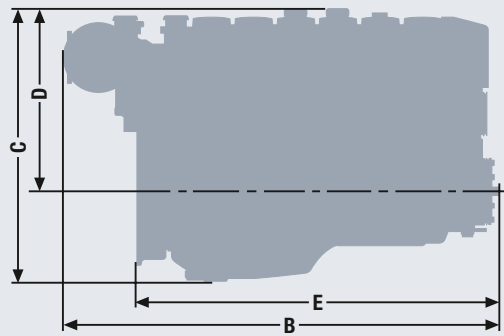
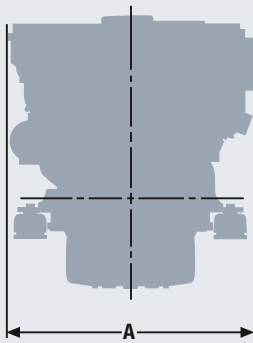
Technical data.

Technical features D2876

Type of engine		LE 406	LE 403	LE 407
Bore	mm	128	128	128
Stroke	mm	166	166	166
Displacement	l	12.82	12.82	12.82
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)	280 (381)	331 (450)	360 (490)
Rated speed	rpm	1,800	1,800	1,800
Torque at rated speed	Nm	1,485	1,756	1,910
Maximum torque	Nm	1,620	1,960	2,074
at speed	rpm	1,300–1,600	1,300–1,500	1,200–1,500
Specific fuel consumption ²⁾	g/kWh	222	223	222
Fuel consumption ²⁾	l/h	74	88	95
Classifiable		✓	✓	✓

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

2) Consumption at rated power.



Dimensions D2876

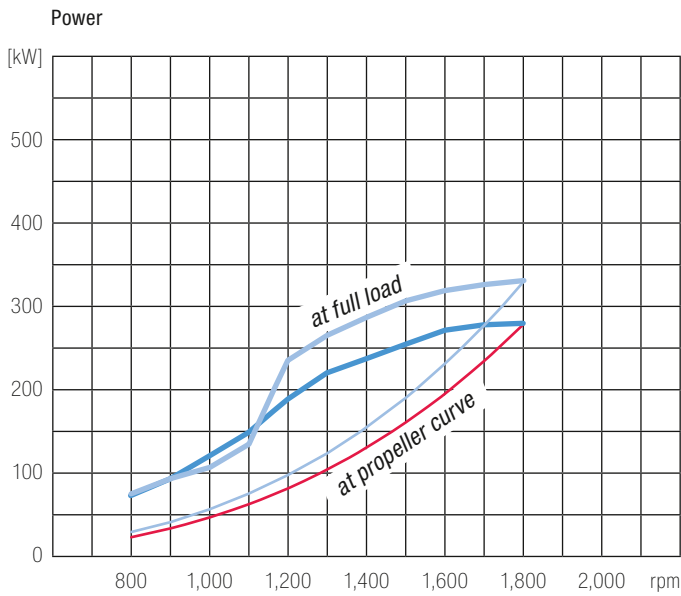
Type of engine		LE 406/403/407
A-Overall width of engine	mm	877
B-Overall length of engine	mm	1,565
C-Overall height of engine	mm	1,000
	– flat oil pan	
	– deep oil pan	1,080
D-Top of engine to crankshaft centre	mm	665
E-Length of engine from front end to edge of flywheel housing	mm	1,320
Average weight of engine ready for installation (dry)	kg	1,160

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

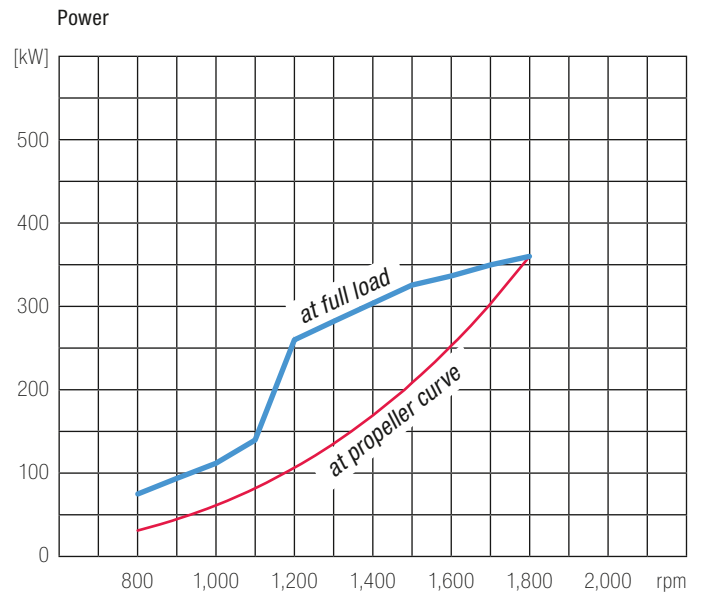
D2876.

Power charts.

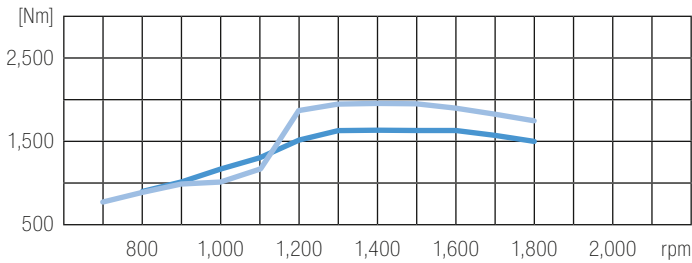
D2876 LE 406 and D2876 LE 403



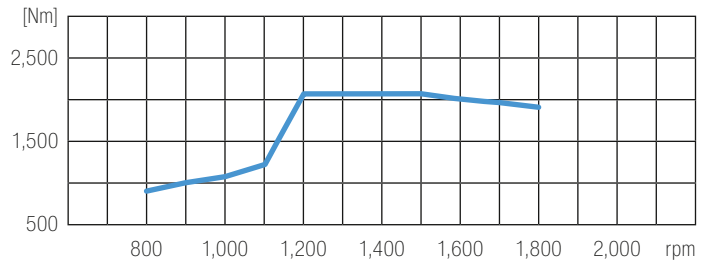
D2876 LE 407



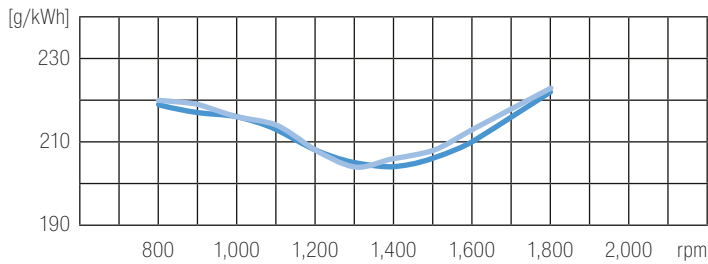
Torque



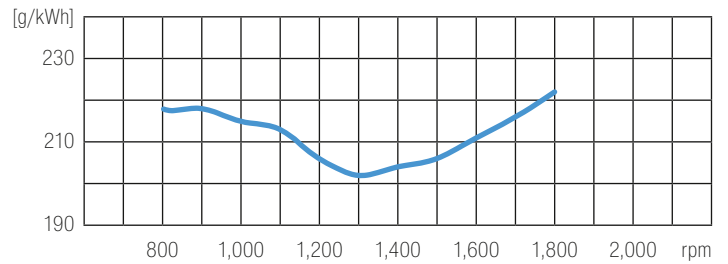
Torque



Specific fuel consumption (full load)

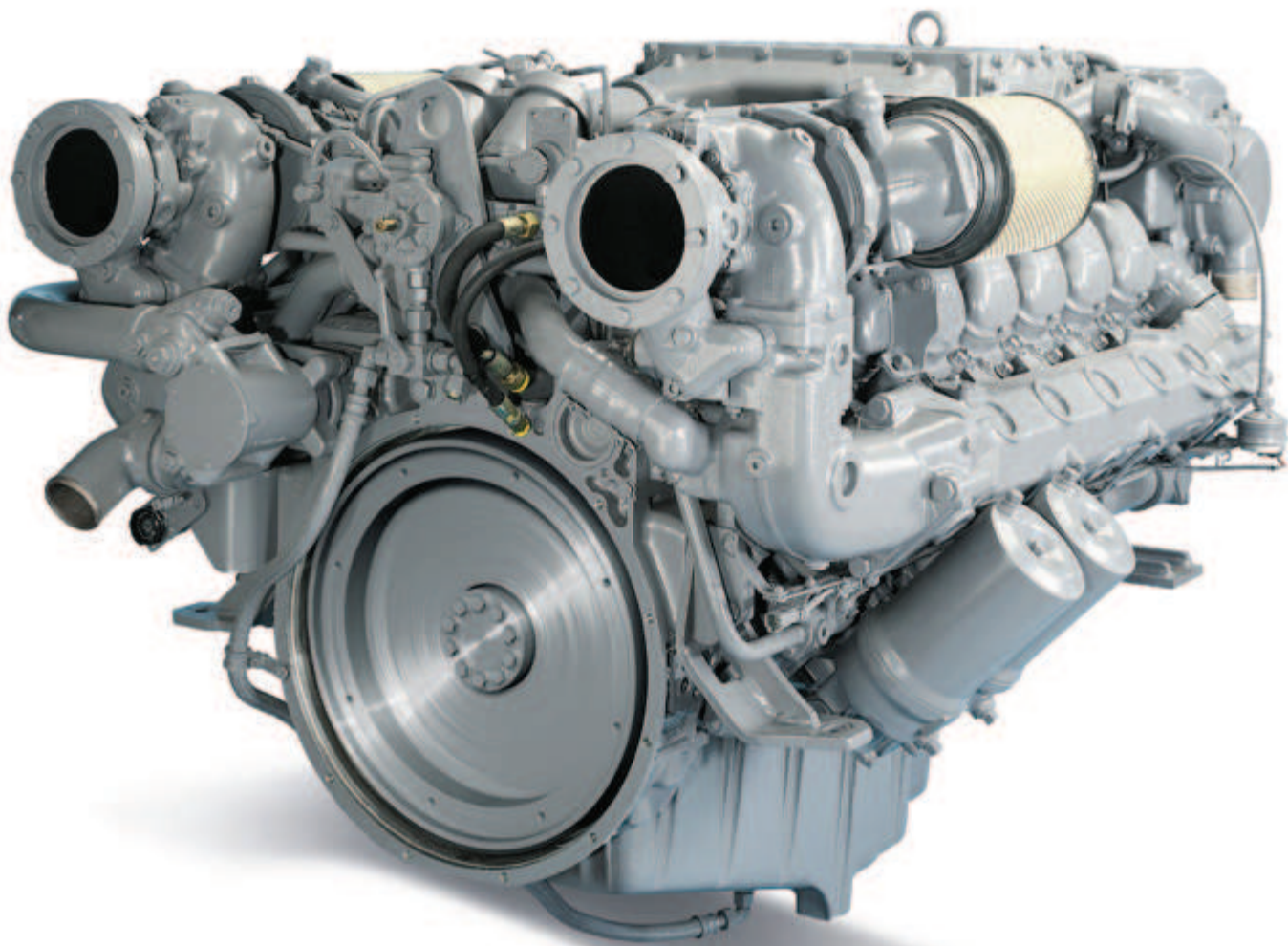


Specific fuel consumption (full load)



- D2876 LE 406 with 280 kW (381 hp at 1,800 rpm)
- D2876 LE 403 with 331 kW (450 hp at 1,800 rpm)

- D2876 LE 407 with 360 kW (490 hp at 1,800 rpm)



D2842.

Engine description.

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
- 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

D2842.

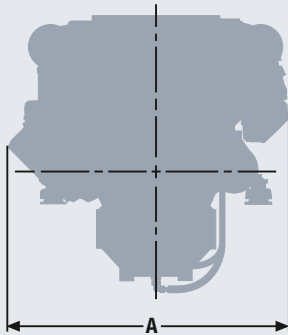
Technical data.

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 3046/1.

2) Consumption at rated power.



Dimensions D2842

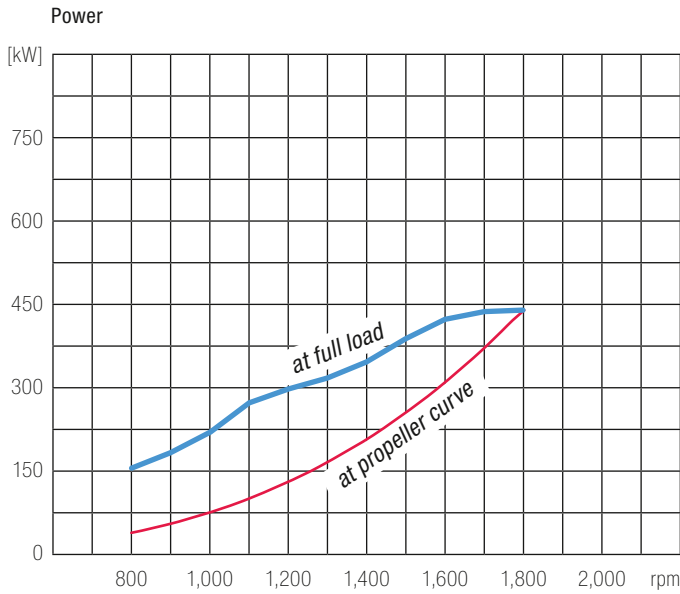
Type of engine		LE 419/412/405	
A-Overall width of engine	mm	1,230	
B-Overall length of engine	mm	1,750	
C-Overall height of engine	- flat oil pan	mm	1,105
	- deep oil pan	mm	1,215
D-Top of engine to crankshaft centre	mm	685	
E-Length of engine from front end to edge of flywheel housing	mm	1,491	
Average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

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

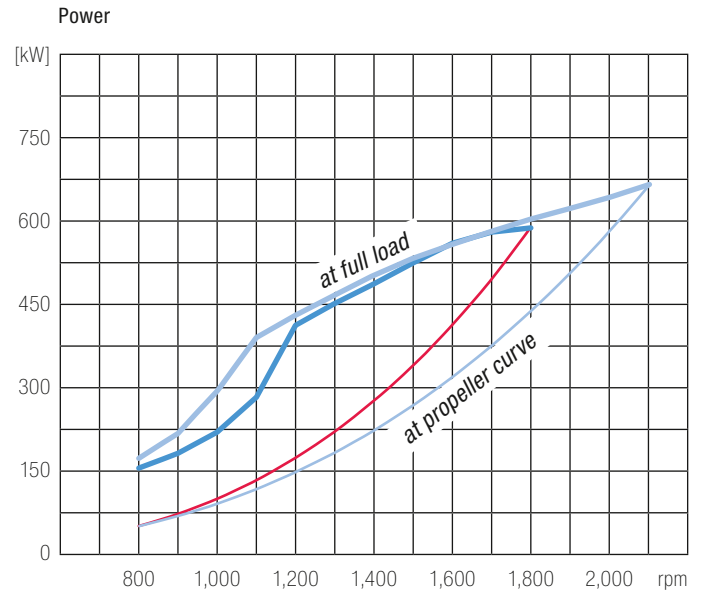
D2842.

Power charts.

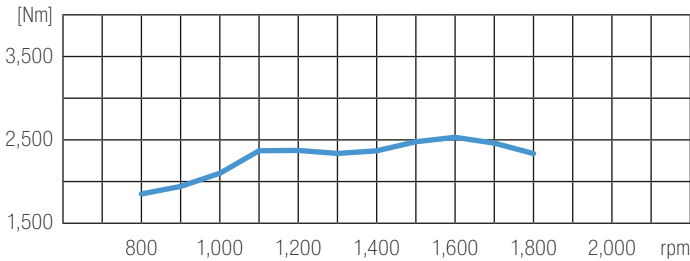
D2842 LE 419



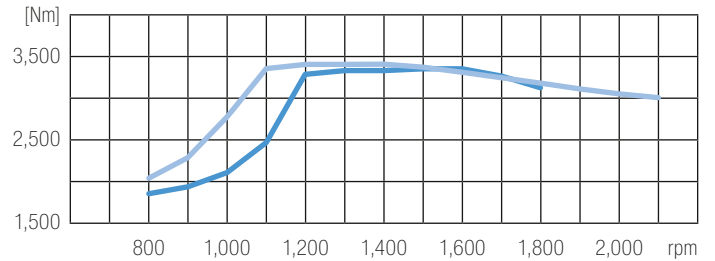
D2842 LE 412 and D2842 LE 405



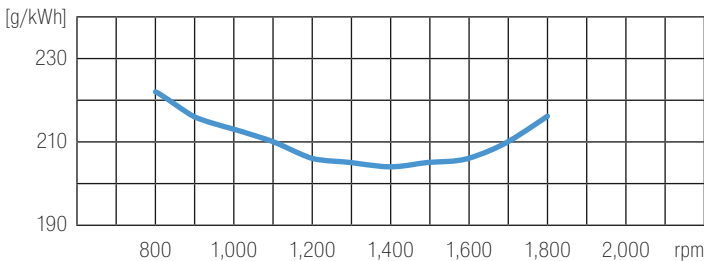
Torque



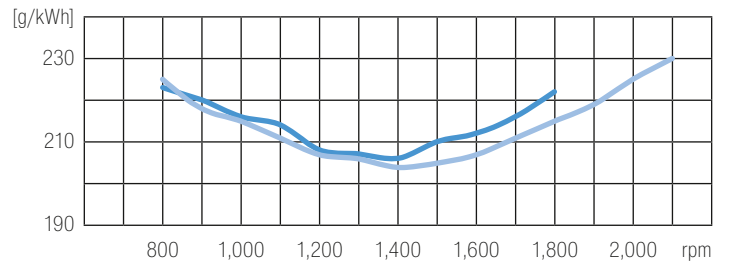
Torque



Specific fuel consumption (full load)



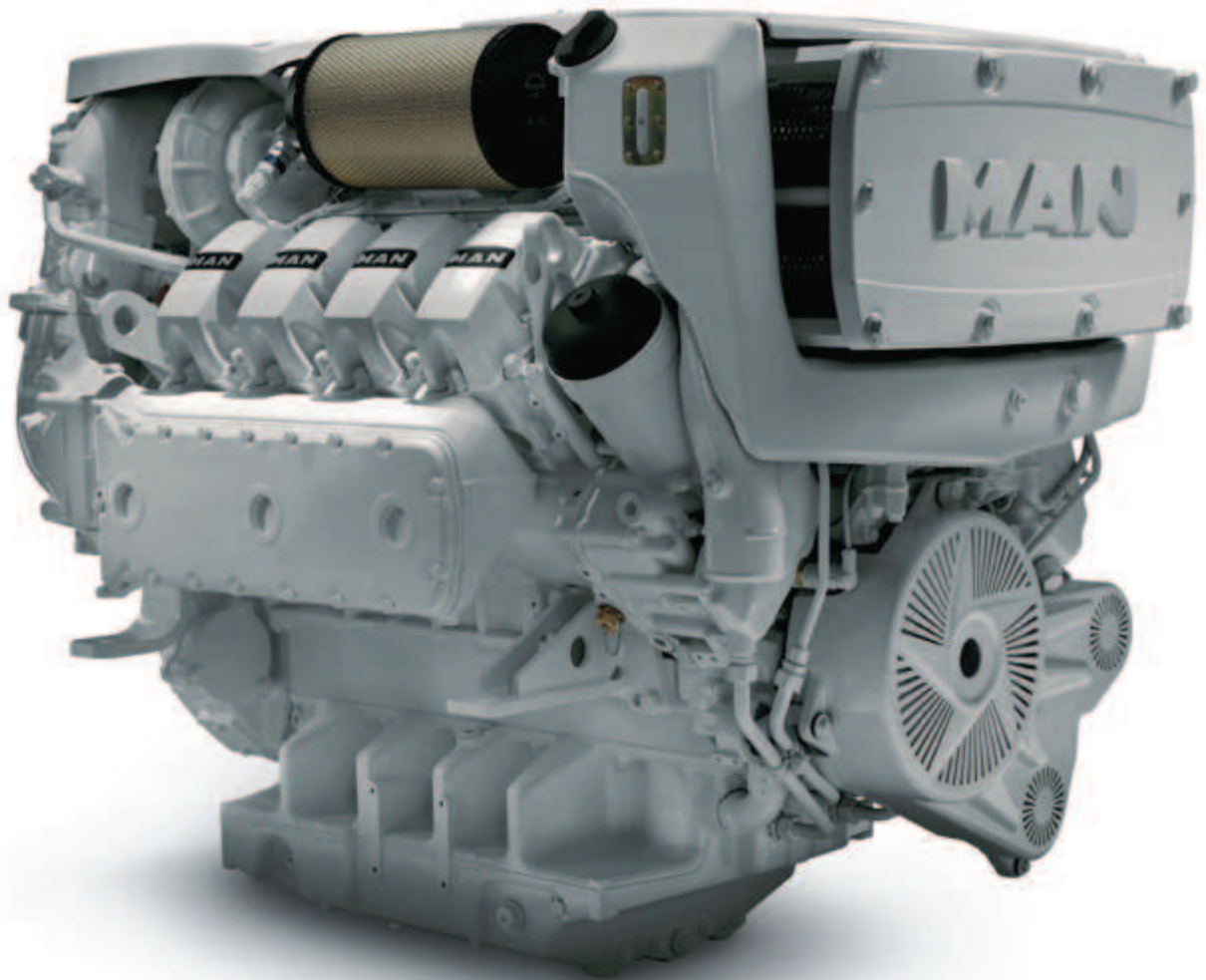
Specific fuel consumption (full load)



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

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

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



D2868.

Engine description.

Characteristics

- Cylinders and arrangement: 8 cylinders in 90° V design
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Exhaust turbocharger with intercooler
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection
- 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
Electronic engine monitoring including diagnostic unit
- Exhaust gas status: IMO Tier 2, RCD 94/25/EC, EPA Tier 2, 97/68/EC
- Fuel: DIN EN 590

D2868.

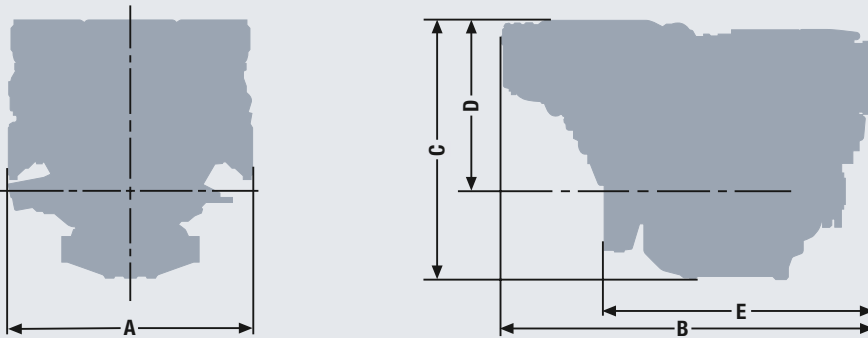
Technical data.

Technical features D2868

Type of engine		LE 421
Bore	mm	128
Stroke	mm	157
Displacement	l	16.16
Compression ratio		19:1
Rotation looking on flywheel		left
Flywheel housing		SAE 1
Nominal rating ¹⁾	kW (hp)	441 (600)
Rated speed	rpm	1,800
Torque at rated speed	Nm	2,340
Maximum torque	Nm	2,630
at speed	rpm	1,100–1,600
Specific fuel consumption ²⁾	g/kWh	207
Fuel consumption ²⁾	l/h	109
Classifiable		✓

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

2) Consumption at rated power.



Dimensions D2868

Type of engine		LE 421
A-Overall width of engine	mm	1,150
B-Overall length of engine	mm	1,740
C-Overall height of engine	mm	1,240
D-Top of engine to crankshaft centre	mm	825
E-Length of engine from front end to edge of flywheel housing	mm	1,243
Average weight of engine ready for installation (dry)	kg	1,800

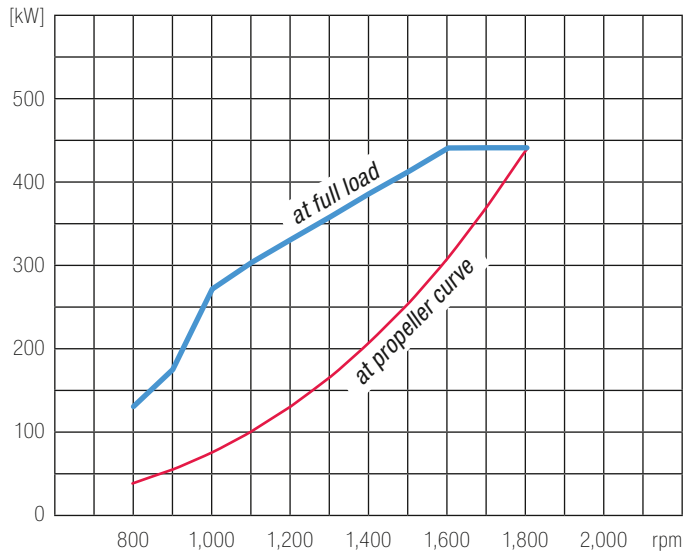
For detailed examinations of installation dimensions, please order drawings from our factory.

D2868.

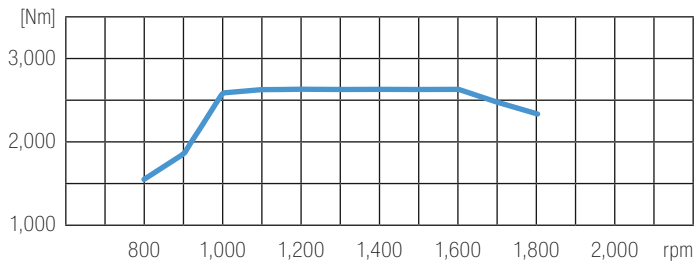
Power charts.

D2868 LE 421

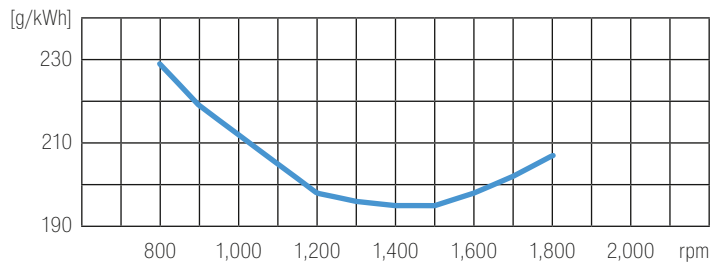
Power



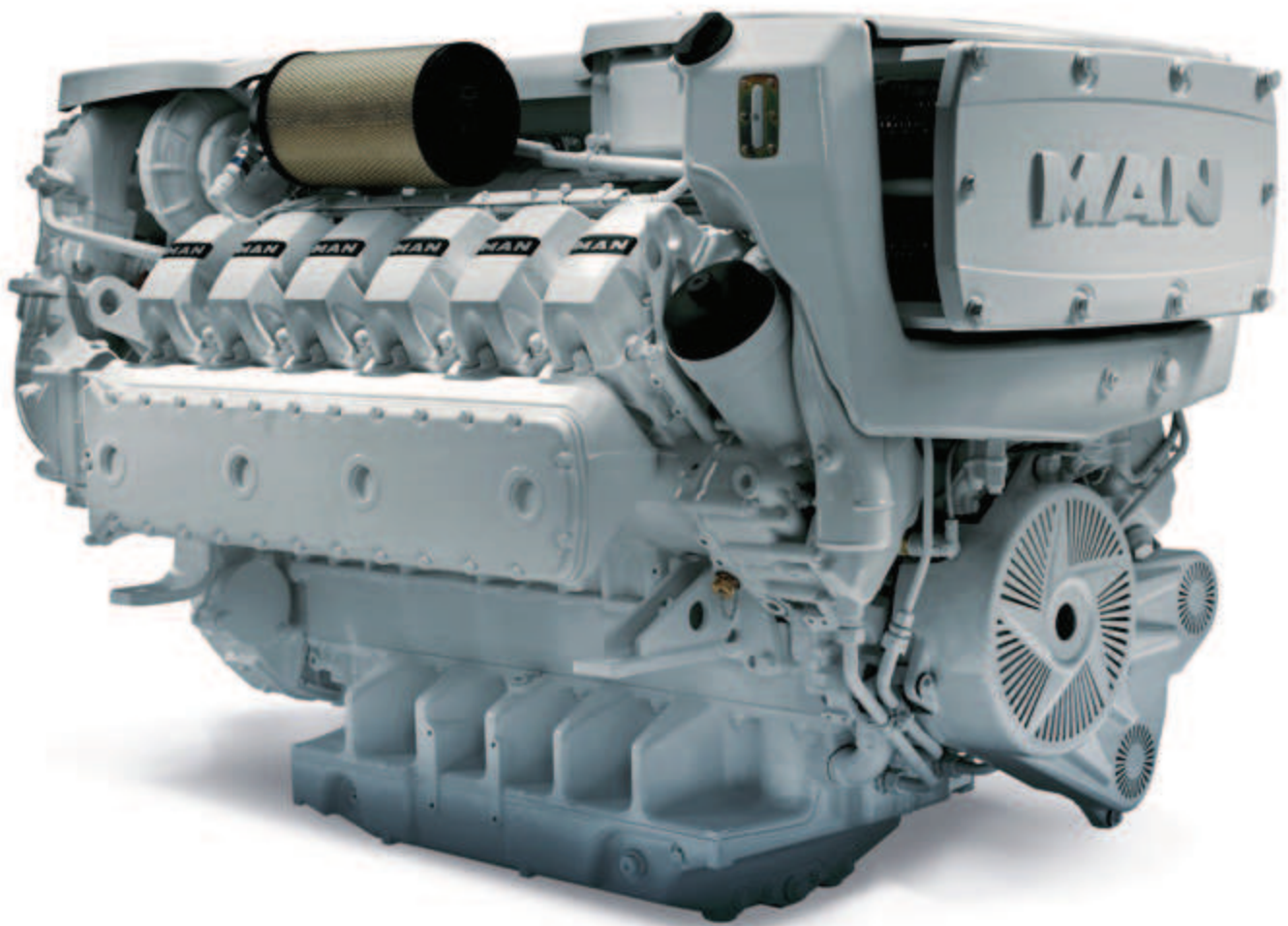
Torque



Specific fuel consumption (full load)



■ D2868 LE 421 with 441 kW (600 hp at 1,800 rpm)



D2862.

Engine description.

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
- 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

D2862.

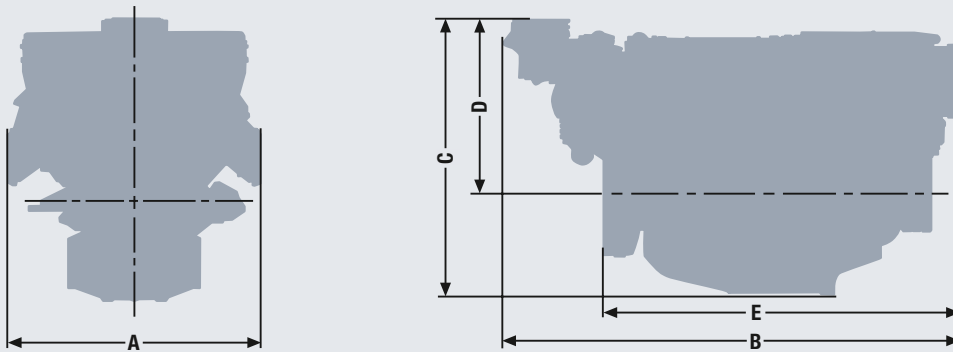
Technical data.

Technical features D2862

Type of engine		LE 431	LE 421
Bore	mm	128	128
Stroke	mm	157	157
Displacement	l	24,24	24,24
Compression ratio		19:1	19:1
Rotation looking on flywheel		left	left
Flywheel housing		SAE 1	SAE 1
Nominal rating ¹⁾	kW (hp)	551 (749)	662 (900)
Rated speed	rpm	1,800	1,800
Torque at rated speed	Nm	2,923	3,512
Maximum torque	Nm	3,290	3,955
at speed	rpm	1,000–1,600	1,000–1,600
Specific fuel consumption ²⁾	g/kWh	213	212
Fuel consumption ²⁾	l/h	140	167
Classifiable		✓	✓

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

2) Consumption at rated power.



Dimensions D2862

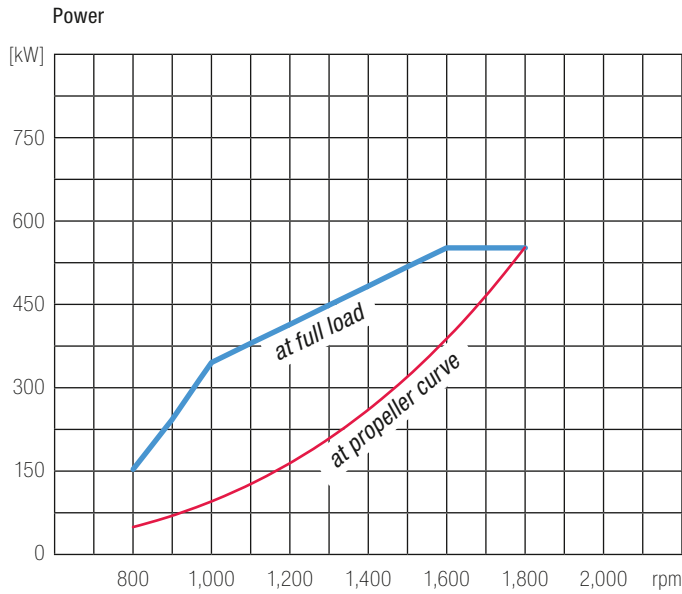
Type of engine		LE 431/421
A-Overall width of engine	mm	1,153
B-Overall length of engine	mm	2,124
C-Overall height of engine	mm	1,289
D-Top of engine to crankshaft centre	mm	825
E-Length of engine from front end to edge of flywheel housing	mm	1,631
Average weight of engine ready for installation (dry)	kg	2,270

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

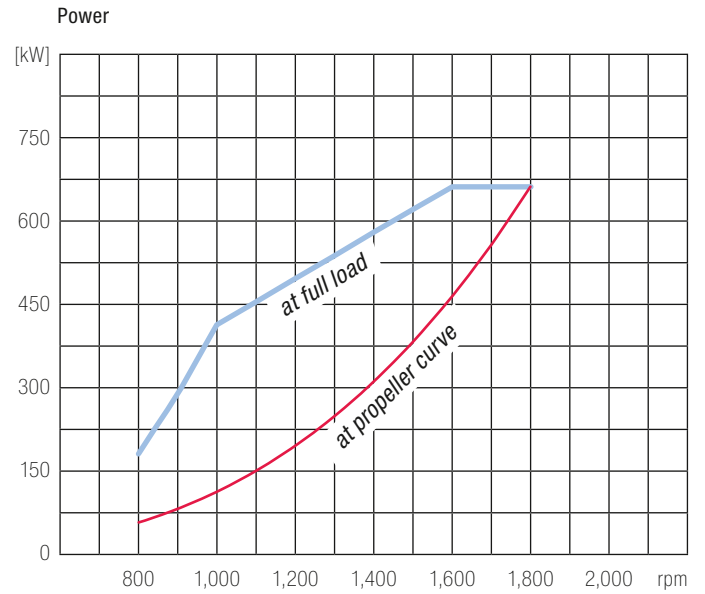
D2862.

Power charts.

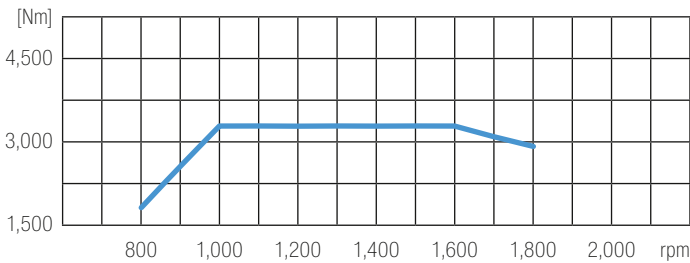
D2862 LE 431



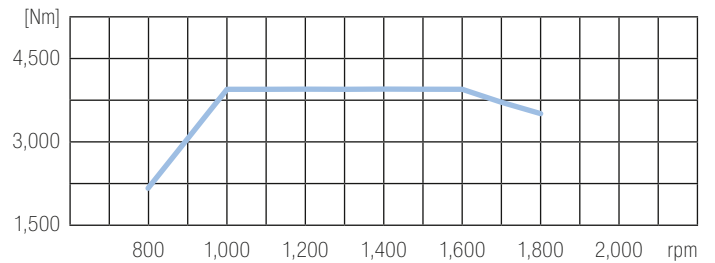
D2862 LE 421



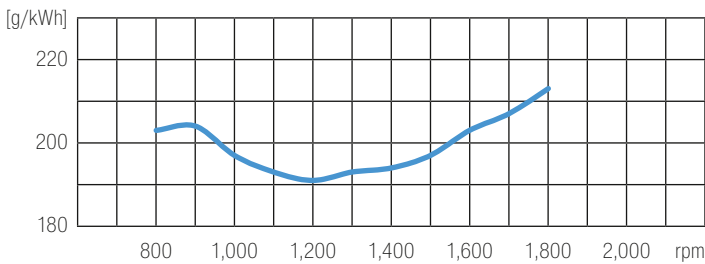
Torque



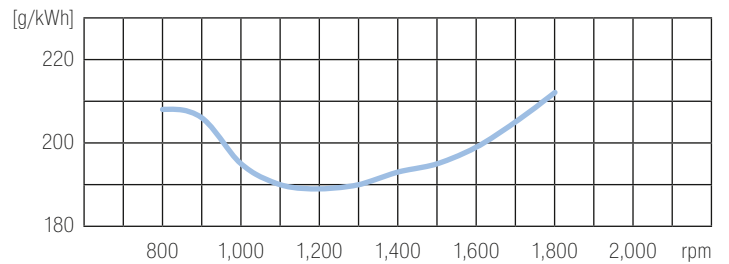
Torque



Specific fuel consumption (full load)



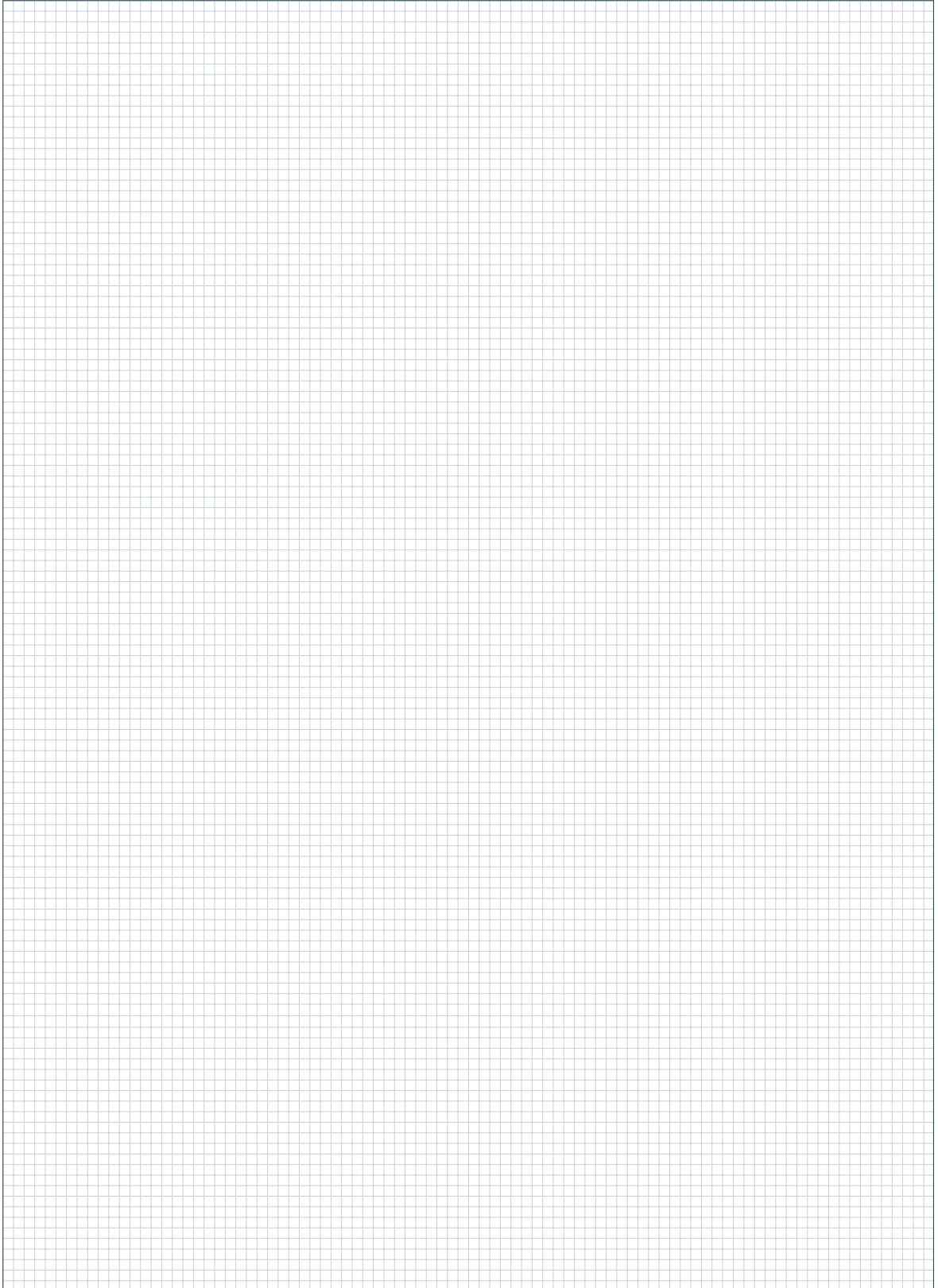
Specific fuel consumption (full load)



■ D2862 LE 431 with 551 kW (750 hp at 1,800 rpm)

■ D2862 LE 421 with 662 kW (900 hp at 1,800 rpm)

Notes.



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