

D2676

Engine description

Characteristics

- Cylinders and arrangement: 6 cylinders in-line
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Turbocharger with charge air intercooler and wastegate
- Number of valves: 4 valves per cylinder
- Fuel system: Common rail injection with high pressure pump
- Engine block: High-strength casting with integrated oil and water ducts and replaceable cylinder liners
- Engine lubrication: Force-feed lubrication, lubrication oil cooler in cooling water circuit of the engine
- Type of cooling: Seawater cooled charge air cooler, plate heat exchanger by rubber impeller pump
- Engine control: Electronic injection control, electronic engine monitoring including diagnostic unit
- Fuel: DIN EN 590
- Average TBO: 12,000 operating hours
- Oil change interval: 500 operating hours

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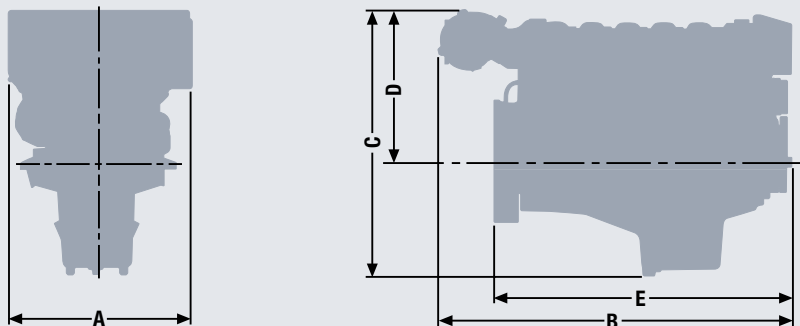
Technical data

Technical features D2676

Type designation		LE 432	LE 435	LE 422	LE 425
Displacement	l	12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	412 (560)	412 (560)	478 (650)	478 (650)
Rated speed	rpm	2,100	2,100	2,100	2,100
Torque at rated speed	Nm	1,869	1,869	2,174	2,174
Maximum torque	Nm	2,065	2,065	2,402	2,402
at speed	rpm	1,300–1,900	1,300–1,900	1,200–1,900	1,200–1,900
Specific fuel consumption ²⁾	g/kWh	209	214	217	225
Fuel consumption ²⁾	l/h	103	105	123	128
Classifiable		✓	✓	✓	✓
Exhaust gas status		IMO Tier 2, 97/68/EC	IMO Tier 2, RCD 2013/53/EC, EPA Tier 3, 97/68/EC	IMO Tier 2, 97/68/EC	IMO Tier 2, RCD 2013/53/EC, EPA Tier 3, 97/68/EC

1) Rating according to DIN 3046-1

2) Consumption at rated power



Dimensions D2676

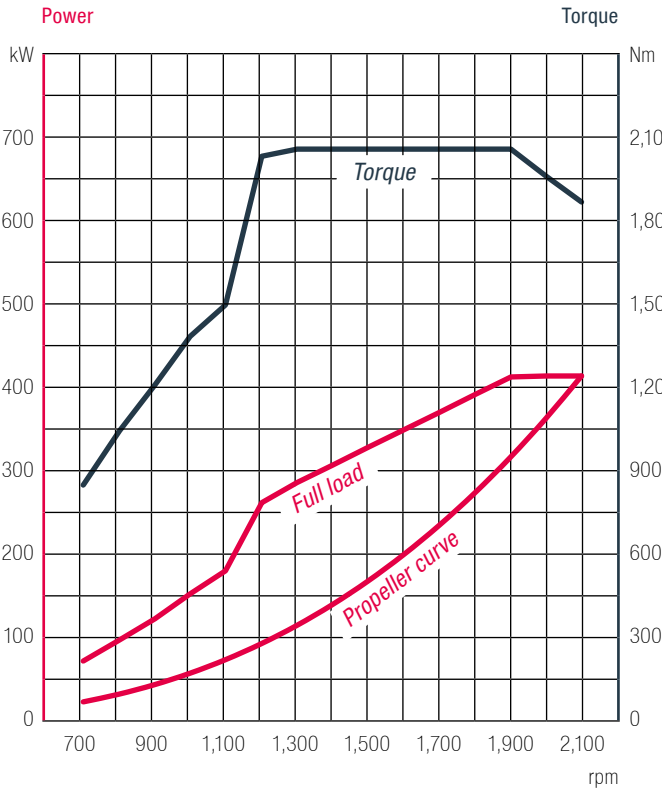
Type designation		LE 432/LE435/LE422/LE425
A-Overall width	mm	922
B-Overall length	mm	1,800
C-Overall height	mm	1,103
D-Top of engine to crankshaft centre	mm	704
E-Length of engine from front end to edge of flywheel housing	mm	1,532
Average weight of engine ready for installation (dry)	kg	1,215

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

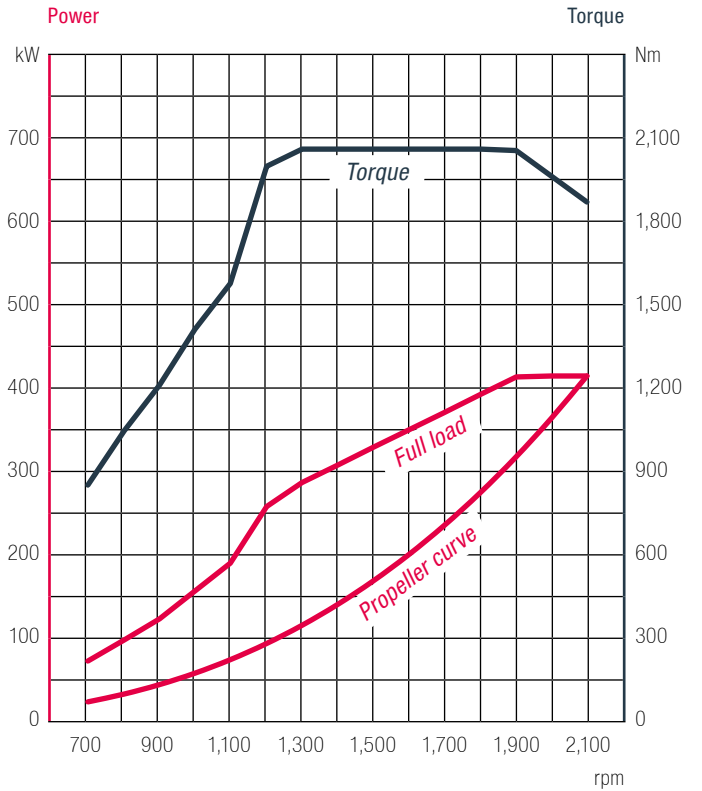
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Power charts

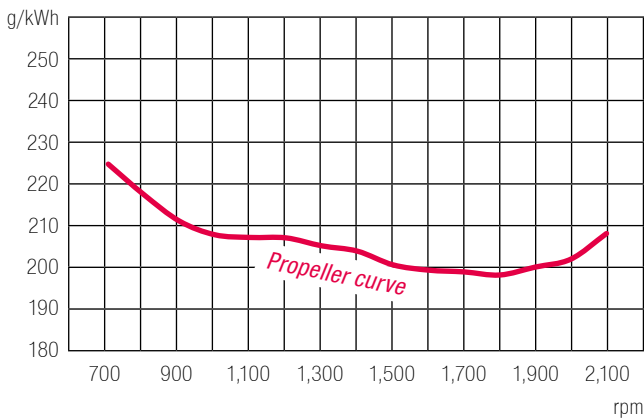
D2676 LE 432



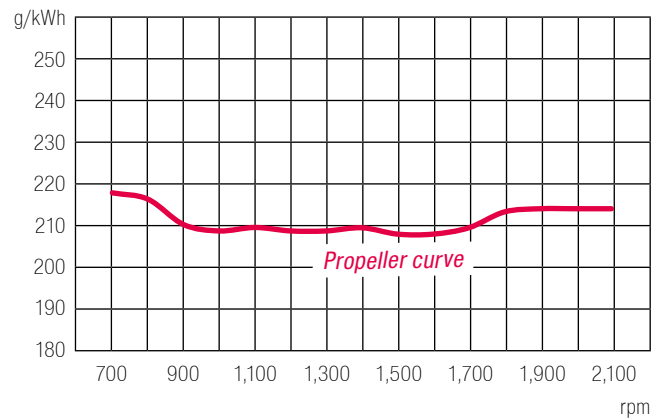
D2676 LE 435



Specific fuel consumption



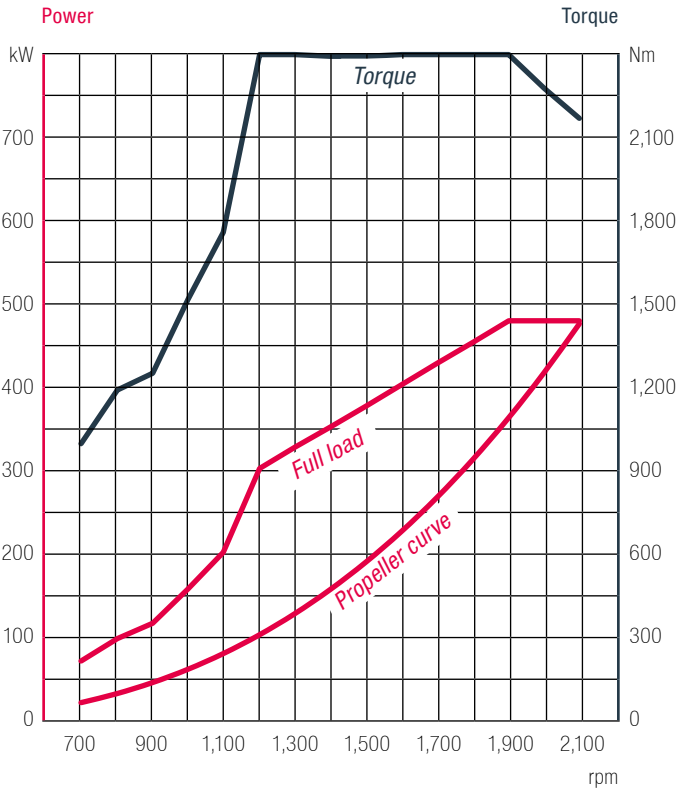
Specific fuel consumption



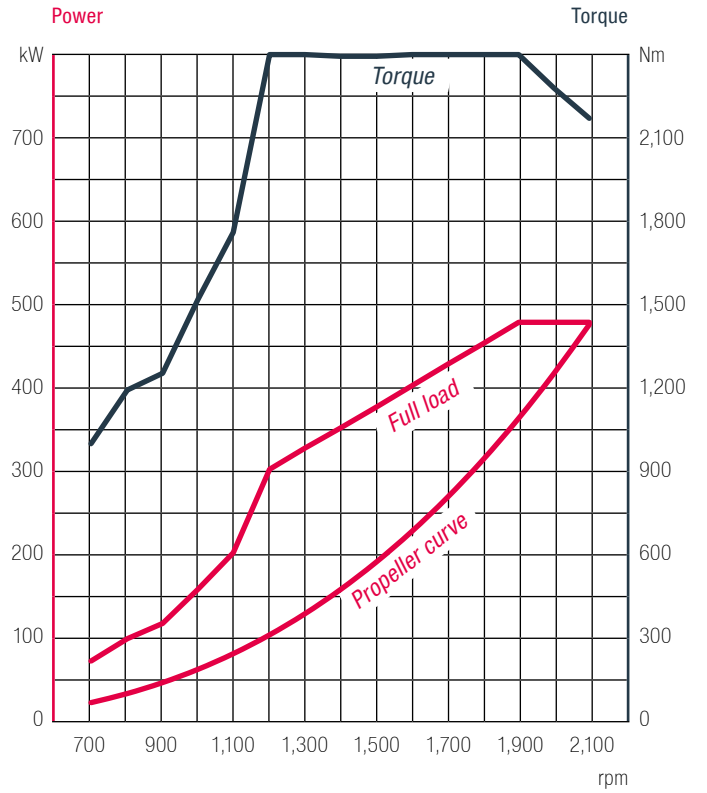
D2676

Power charts

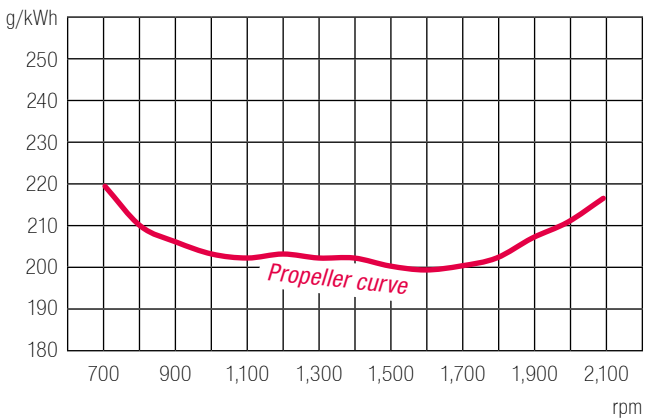
D2676 LE 422



D2676 LE 425



Specific fuel consumption



Specific fuel consumption

