

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: 18,000 operating hours
- Oil change interval: 600 operating hours

D2676

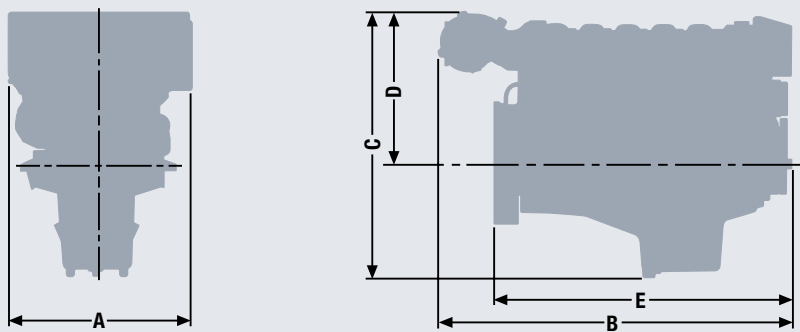
Technical data

Technical features D2676

Type designation		LE 431	LE 434	LE 421	LE 424
Displacement	l	12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	324 (440)	324 (440)	382 (520)	382 (520)
Rated speed	rpm	1,800	1,800	1,800	1,800
Torque at rated speed	Nm	1,719	1,719	2,027	2,027
Maximum torque	Nm	1,925	1,925	2,275	2,270
at speed	rpm	1,200–1,600	1,200–1,600	1,200–1,600	1,200–1,600
Specific fuel consumption ²⁾	g/kWh	205	210	207	212
Fuel consumption ²⁾	l/h	79	81	94	96
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) The rating is according to DIN 3046/1.

2) Consumption at rated power.



Dimensions D2676

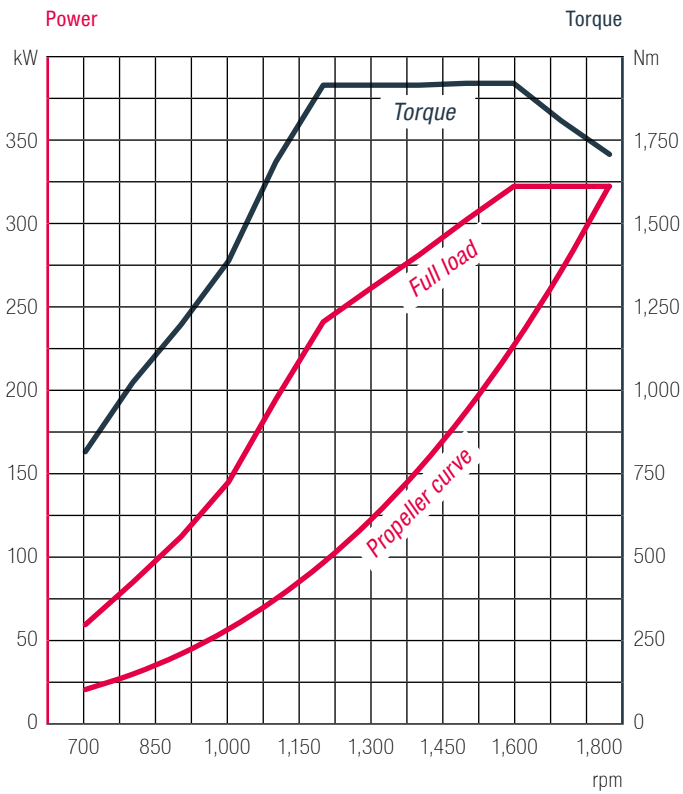
Type designation		LE 431/LE 434 /LE 421/LE 424
A-Overall width	mm	922
B-Overall length	mm	1,800
C-Overall height	mm	1,103
D-Top of engine to crankshaft centre	mm	704
E-Length of engine from front end to edge of flywheel housing	mm	1,532
Average weight of engine ready for installation (dry)	kg	1,215

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

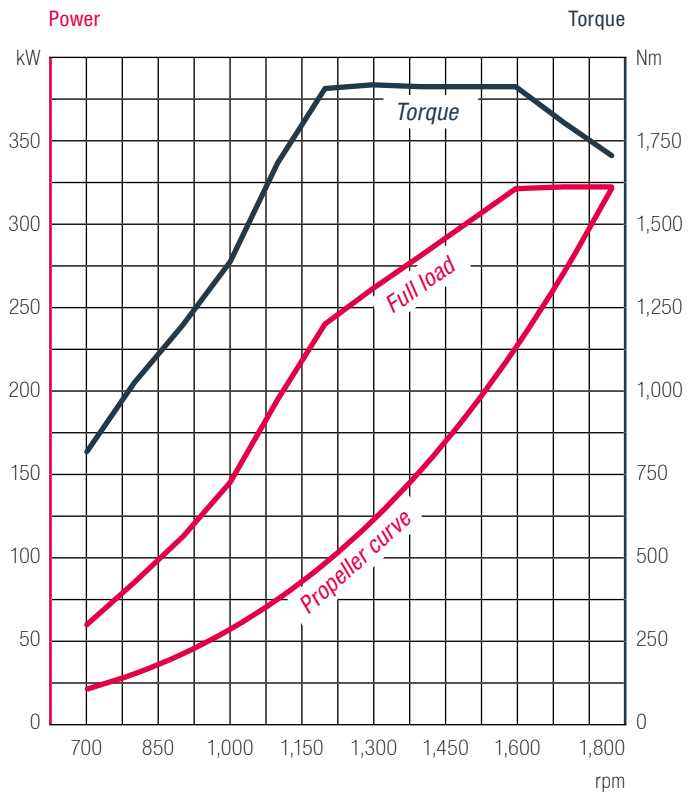
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Power charts

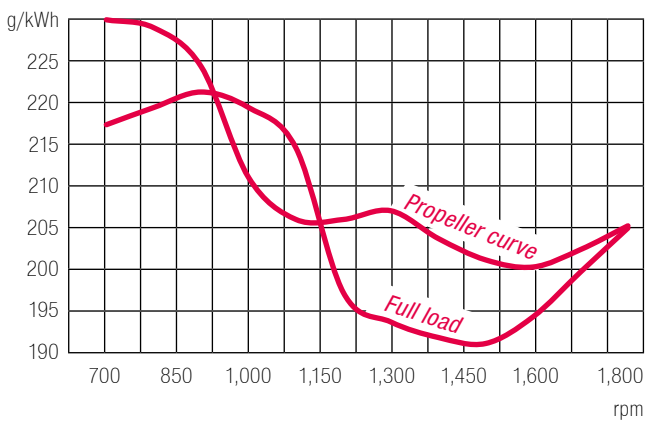
D2676 LE 431



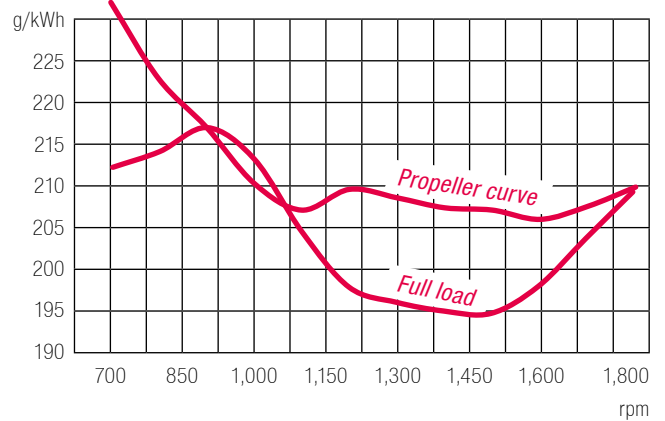
D2676 LE 434



Specific fuel consumption



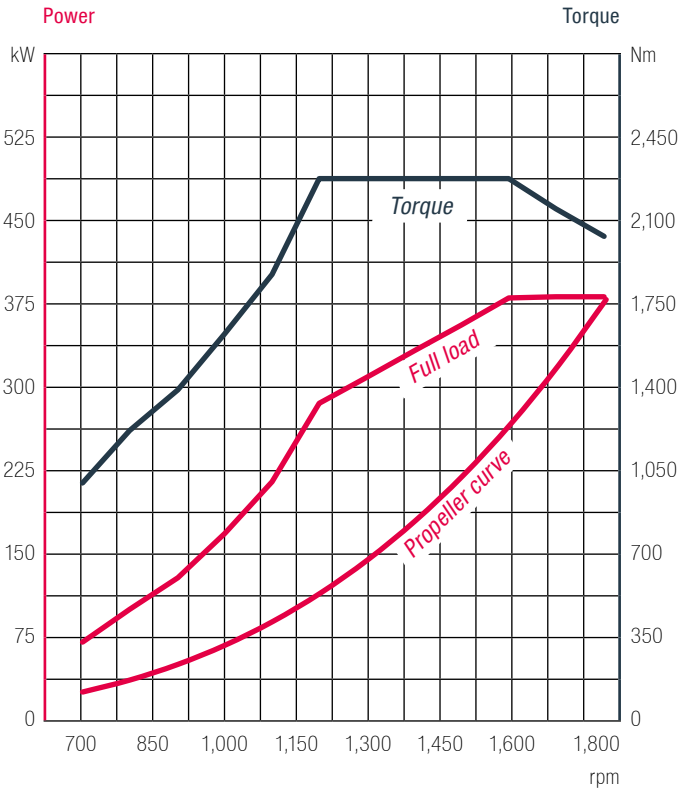
Specific fuel consumption



D2676

Power charts

D2676 LE 421



D2676 LE 424

