D8-600





Technical data

Engine designation	D8-600
No. of cylinders and configuration	in-line 6
Method of operation	4-stroke, direct-injected, turbocharged diesel engine with aftercooler
Bore/stroke, mm (in.)	110/135 (4.33/5.31)
Displacement, I (in ³)	7.7 (469.7)
Compression ratio	16.5:1
Dry weight bobtail, kg (lb)	840 (1852)
Crankshaft power, kW (hp) @ 3000 rpm	441 (600)
Max. torque, Nm (lbf.ft) @ 2000 rpm	1755 (1294)
Emission compliance	IMO NOx, EU RCD, US EPA Tier 3
Rating	R5
Recommended fuel to conform to	ASTM-D975 1-D & 2-D, EN 590 or JIS KK 2204
Specific fuel consumption, g/kWh (lb/hph) @ 2400 rpm	207 (0.335)
Flywheel housing/SAE size	11.5"/SAE 2

Technical data according to ISO 8665. With fuel having an LHV of 42700 kJ/kg and density of 840 g/liter at 15 °C (60 °F). Merchant fuel may differ from this specification which will influence engine power output and fuel consumption.





Torque



крт





D8-600

Technical description:

Engine and block

- Cylinder block made of cast iron
- One-piece cast-iron cylinder head
- Ladder frame fitted to engine block
- Replaceable dry cylinder liners and valve seats/guides
- Drop forged crankshaft with induction hardened bearing surfaces and fillets with seven main bearings
- Four-valve-per-cylinder layout with overhead camshaft.
- Each cylinder features cross-flow inlet and exhaust ducts
- Gallery oil-cooled cast aluminum alloy pistons with three piston rings
- Rear-end transmission

Engine mounting

• Flexible engine mounting (option)

Lubrication system

- Seawater-cooled tubular oil cooler
- Single cartridge type oil filter, easy to replace, with no spillage

Fuel system

- Common rail fuel injection system
- · Gear-driven fuel pump and injection timing
- Electronically controlled central processing
- system (EMS Engine Management System) • Single fine fuel filter of spin-on type, with

water separator and water alarm Air inlet and exhaust system

- Mid-positioned twin entry turbocharger with aftercooler
- · Air filter with replaceable inserts
- Wet exhaust elbow (option)
- · Loss of sea water alarm

Cooling system

- · Seawater-cooled tubular heat exchanger
- Coolant system prepared for hot water outlet
- Easily accessible seawater impeller pump in rear end

Electrical system

• 24V with extra 12V/115A or 24V/80A alternator



Electronic Vessel Control (EVC)

 Fully integrates the engines, electronics and the unique set of EVC features; Joystick Docking (available for twin engine installations), Glass Cockpit and more

Reverse gear

- ZF reverse gears, with low speed as option, electronically shifted
- Connection kits for Twin disc available







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More information

For more information on engine, options, EVC features and more, please contact your Volvo Penta dealer or go to www.volvopenta.com. Scan the QR code for Volvo Penta Dealer Locator app.





Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice. The engine illustrated may not be entirely identical to production standard engines.