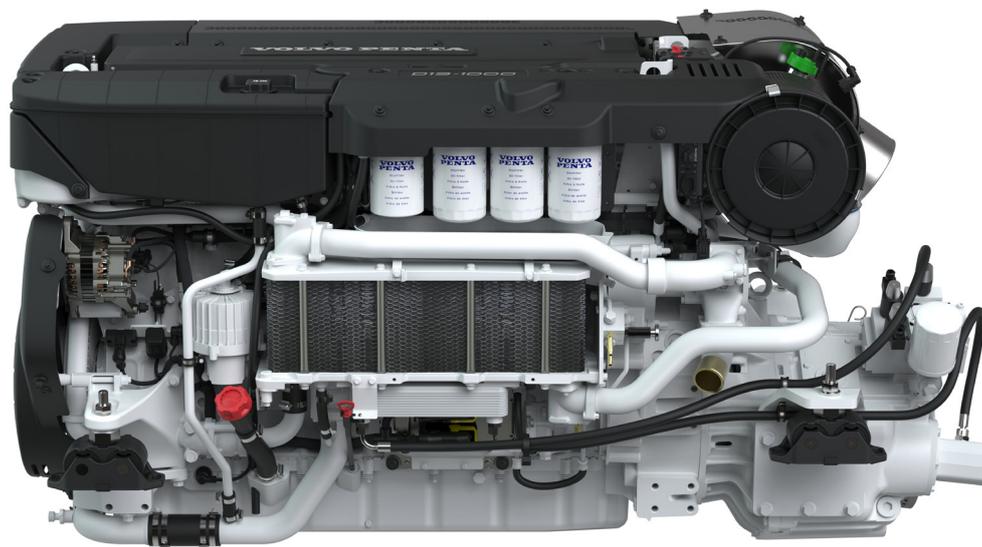


VOLVO PENTA INBOARD DIESEL

D13-1000

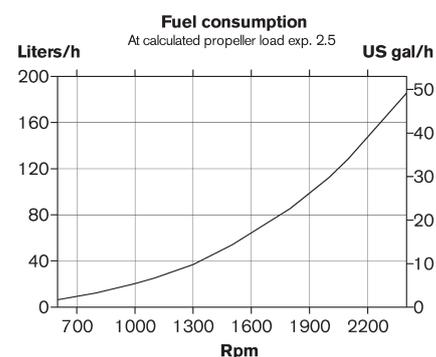
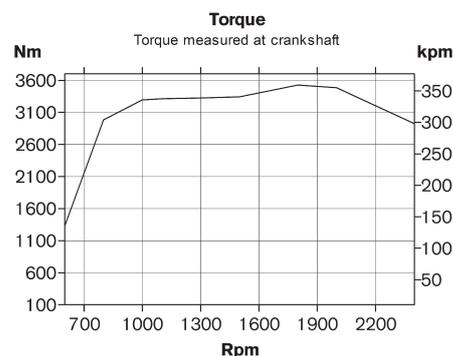
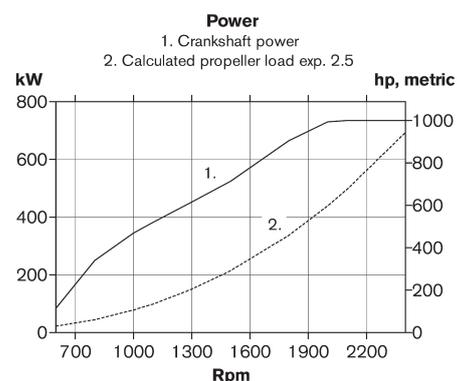
12.8 liter, in-line 6 cylinder



Technical Data

| | |
|--------------------------------------|---|
| Engine designation | D13-1000 |
| No. of cylinders and configuration | in-line 6 |
| Method of operation | 4-stroke, direct-injected, turbo-charged diesel engine with charge air cooler |
| Bore/stroke, mm (in.) | 131/158 (5.16/6.22) |
| Displacement, l (in ³) | 12.78 (779.7) |
| Compression ratio | 17.1:1 |
| Dry weight bobtail, kg (lb) | 1635 (3605) |
| Crankshaft power, kW (hp) @ 2400 rpm | 735 (1000) |
| Max. torque, Nm (lbf.ft) @ 1800 rpm | 3527 (2602) |
| Emission compliance | IMO NOx, EU RCD Stage II, US EPA Tier 3 |
| Rating | R5 |
| Recommended fuel to conform to | ASTM-D975 1-D & 2-D, EN 590 or JIS KK 2204 |
| Flywheel housing/SAE size | 14"/SAE1 |

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.



D13-1000

12.8 liter, in-line 6 cylinder

Technical description

Engine and block

- Cylinder block made of cast iron
- One-piece cast-iron cylinder head
- Ladder frame fitted to engine block
- Replaceable wet 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 and center position of unit injectors
- Each cylinder features cross-flow inlet and exhaust ducts
- Monotherm steel pistons
- Rear-end transmission

Engine mounting

- Flexible engine mounting

Lubrication system

- Integrated oil cooler in cylinder block
- Rear positioned twin full flow oil filter of spin-on type and by-pass filter

Fuel system

- Electronic high pressure unit injectors
- Gear-driven fuel pump and injection timing
- Electronically controlled central processing system (EMS – Engine Management System)
- Single fine fuel filter of spin-on type

Air inlet and exhaust system

- Twin turbo technology with freshwater-cooled charge air cooler
- Air filter with replaceable inserts
- Wet exhaust elbow (option)
- Loss of sea water alarm

Cooling system

- Seawater-cooled plate heat exchanger
- Coolant system prepared for hot water outlet
- Easily accessible seawater pump in rear end of flywheel housing

Electrical system

- 24V/110A plus an optional extra 12V/115A alternator



Electronic Vessel Control (EVC)

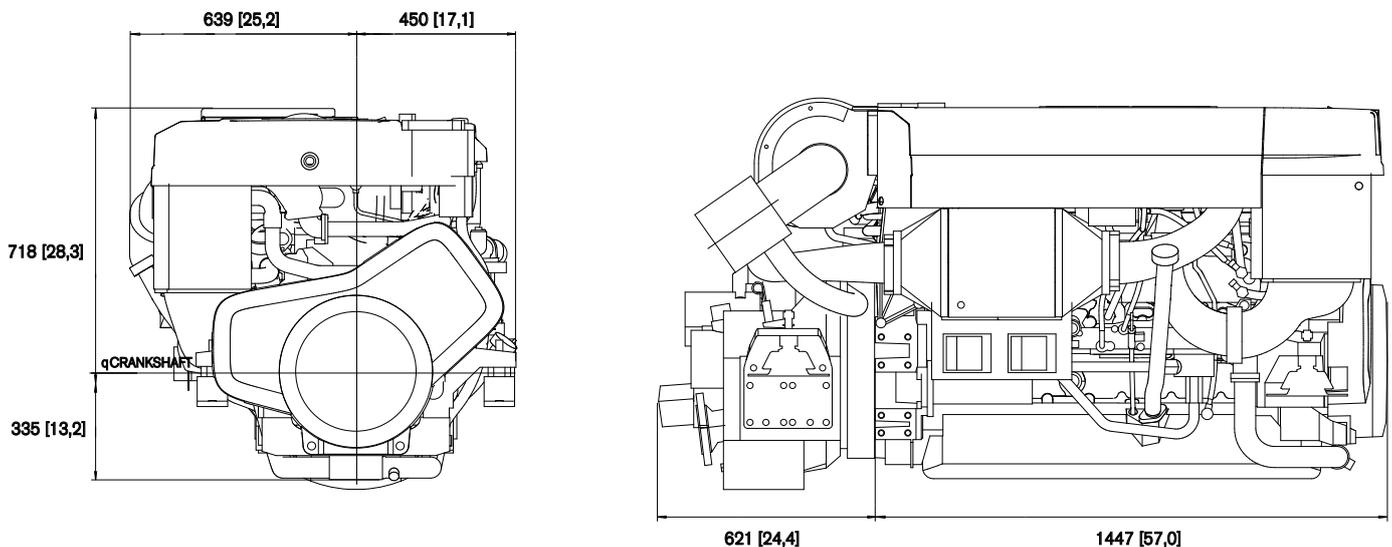
- Fully integrates the engines, electronics and the unique set of EVC features; Joystick Docking (available for twin engine installations), Glass Cockpit and more

Gear box

- ZF500-1A-E and ZF500-1IV-E, with low speed as option, electronically shifted
- ZF-400A, with low speed as standard, electronically shifted
- Connection kits for Twin disc available

Dimensions D13-1000 with ZF500-1A

Not for installation



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.

Contact your local Volvo Penta dealer for more information regarding Volvo Penta engines and optional equipment/ accessories or visit www.volvopenta.com

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