

MD 29

Volvo Penta six-cylinder, four-stroke marine diesel engine. 67–92 h. p.

This engine is characterized by a high output combined with low weight. Compact design and a low engine profile facilitate installation in limited spaces below deck. The combustion chambers include turbulence pre-chambers and glow plugs. The fuel injection pump is of the distributor type and fitted with a mechanical governor. Since a feed pump is fitted, the fuel tank can be installed in the boat at a lower level than the engine. The MD 29 is also fitted with a heat exchanger for fresh-water cooling and the temperature of the cooling water is thermostat-controlled. Fully water-cooled exhaust manifold with water-cooled exhaust outlets and exhaust elbow bend. The oil cooler is easily accessible for cleaning and the oil system is fitted with a replaceable spin-on full-flow oil filter. 12 V electrical equipment with an alternator—max. output 530 W—and a 3 h.p. starter motor. Instrument panel with electric revolution counter, electric temperature gauge, warning lamps for oil pressure and battery charging as well as a mechanical stop control and a combined glow plug switch and starter key. The engine can be supplied with

rubber mountings and a flexible coupling for installation in boats where there are extremely severe demands on quiet and vibration-free operation.

The MD 29 is supplied with the patented Volvo Penta reduction/reverse gear, ratio 1.9:1 or a hydraulically operated reverse gear of the Borg-Warner Velvet Drive type with a ratio of 2:1 (right or left-hand thread propeller) and 3:1 (left-hand thread propeller).

Standard equipment includes:

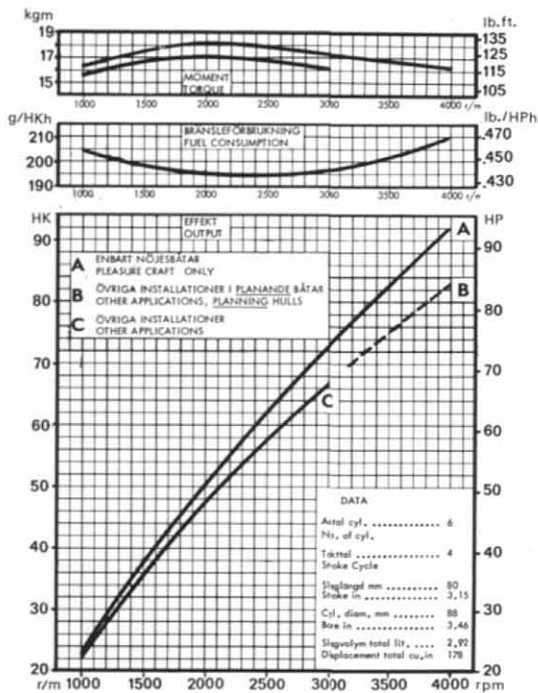
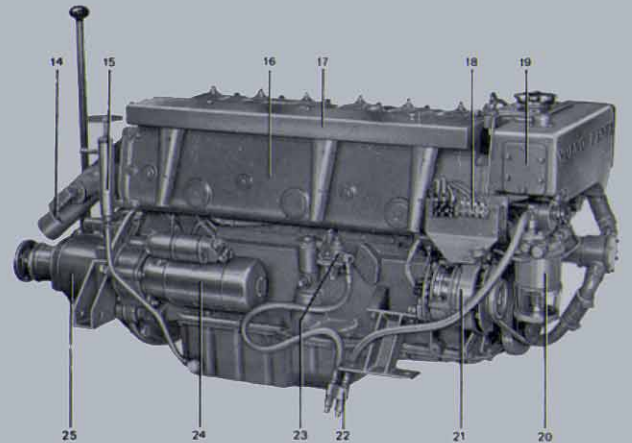
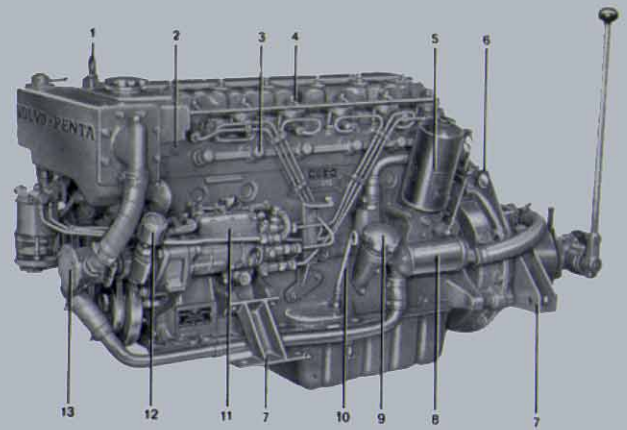
Instrument panel with electric revolution counter, electric temperature gauge, warning lamps for charging and oil pressure and also a mechanical stop control.

All electrical leads are in the form of one single cable harness between the engine and the instrument panel with a connecting plug located about 1.5 m (5 ft) from the engine. This system considerably facilitates installation.



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1. Lifting eyelet
2. Plug for heater system in boat
3. Glow plug
4. Injector
5. Spin-on full-flow oil filter
6. Lifting eyelet
7. Engine mounting bracket
8. Oil cooler
9. Oil filler
10. Oil dipstick
11. Fuel injection pump
12. Tachometer sender
13. Sea-water pump
14. Exhaust elbow bend with drain point for surplus water
15. Oil sump scavenging pump
16. Exhaust manifold with fully cooled outlets combined with intake manifold
17. Intake silencer
18. Terminal block for all electrical connections to instruments
19. Heat exchanger
20. Fuel filter with water deflector
21. Alternator, Motorola 12 V, 38 A
22. Flexible fuel line with connector nozzle
23. Fuel feed pump
24. Starter motor
25. Reduction/reverse gear, ratio 1.91:1.

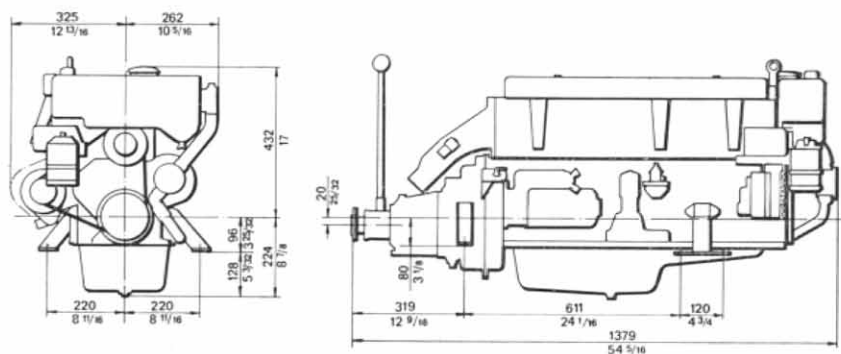


DATA

Max. output at 4000 r.p.m. (SAE, leisure boats *) 92 h.p.
 Max. output at 4000 r.p.m. (SAE, other planing boats *) 83 h.p.
 Continuous output at 3000 r.p.m. (SMMT) 67 h.p.
 Type of engine Four-stroke
 Number of cylinders 6
 Capacity 2.92 litres
 (178 cu. in.)

Bore 88 mm (3.465")
 Stroke 80 mm (3.15")
 Valves Overhead
 Weight, including reduction/reverse gear, approx. 315 kg (695 lb.)

* Max. permitted r.p.m. 4000 only during shorter periods. Cruising speed 200 r.p.m. lower than max. r.p.m.



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