
Design and function

Group 21 Short block

Engine, general

The D1-13, D1-20, D1-30 and D2-40 are four cycle marine diesel propulsion engines. They all have two valves per cylinder, a high-mounted camshaft in the engine block, and a mechanical injection pump.

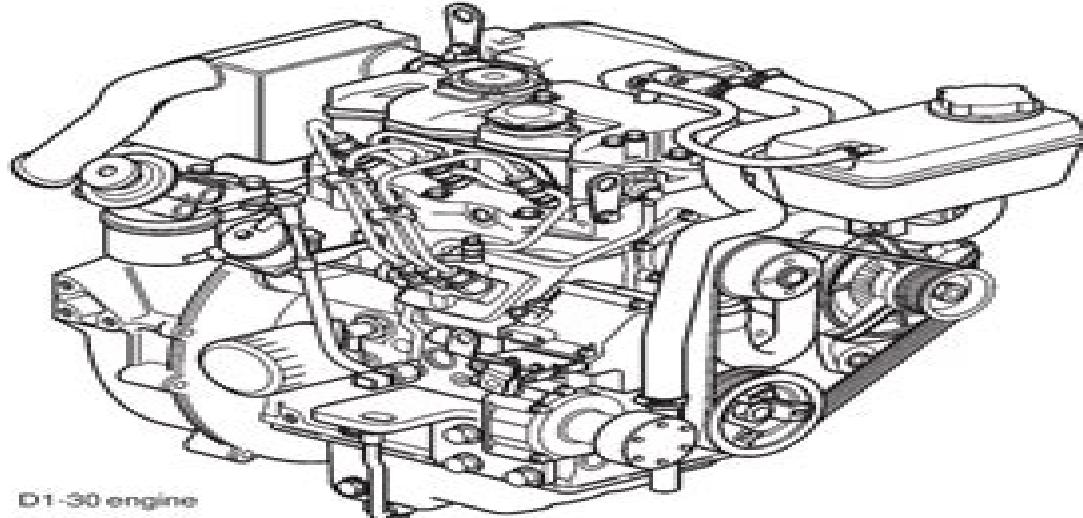
The D1-13 is an in-line two cylinder engine with a total swept volume of 0.51 liter. The D-20 and D1-30 are in-line three cylinder engines with total swept volumes of 0.76 and 1.13 liter respectively. The D2-40 is an in-line four cylinder engine with a total swept volume of 1.51 liter.

The D1-13 and D1-20 engines have identical pistons with the same dimensions. The D1-30 and D2-40 engines have different pistons, but of common dimensions.

The engines are lubricated by a pressure lubrication system, in which an oil pump supplies oil under pressure to all lubrication points.

Fresh water cooling uses a thermostatically controlled sea-water cooled heat exchanger. The sea water pump is operated by a gear train.

The crankshaft operates the coolant pump and alternator via a drive belt.



Volvo D1 30 Maintenance Manual

A Gutmann

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