

Document Title: Engine, description	Function Group: 200	Information Type: Service Information	Date: 2015/2/21
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Engine, description

- The D12D is the model number of the Volvo 12 liter engine.
- The engine is a 6-cylinder, 4-stroke, direct injection diesel with a 12 liter cylinder volume, turbocharger, charge air cooler and electronic controlled fuel injection, EMS (Engine Management System).
- The serial number of the engine is to be found stamped in the cylinder block on the rear left side.
- The cylinder head is of cast iron and manufactured in one piece which is necessary in order to provide stable bearings for the overhead camshaft.
- The cylinder liner is sealed against the coolant casing with rubber rings.
- The D12D has a four-valve system and overhead camshaft.
- The engine timing gear transmission is located at the front of the engine on a 10 mm thick steel plate bolted to the cylinder block.
- The crankshaft is drop forged and has induction hardened bearing surfaces and fillets.
- The engine is force fed lubricated by an oil pump which is gear driven from the engine crankshaft via an intermediate gear.
- The fuel system for D12D has electronic control with unit injectors one for each cylinder and which operate at a very high pressure.
- The fuel feed pump is a gear driven type and is driven from the engine timing gear with the same gear.

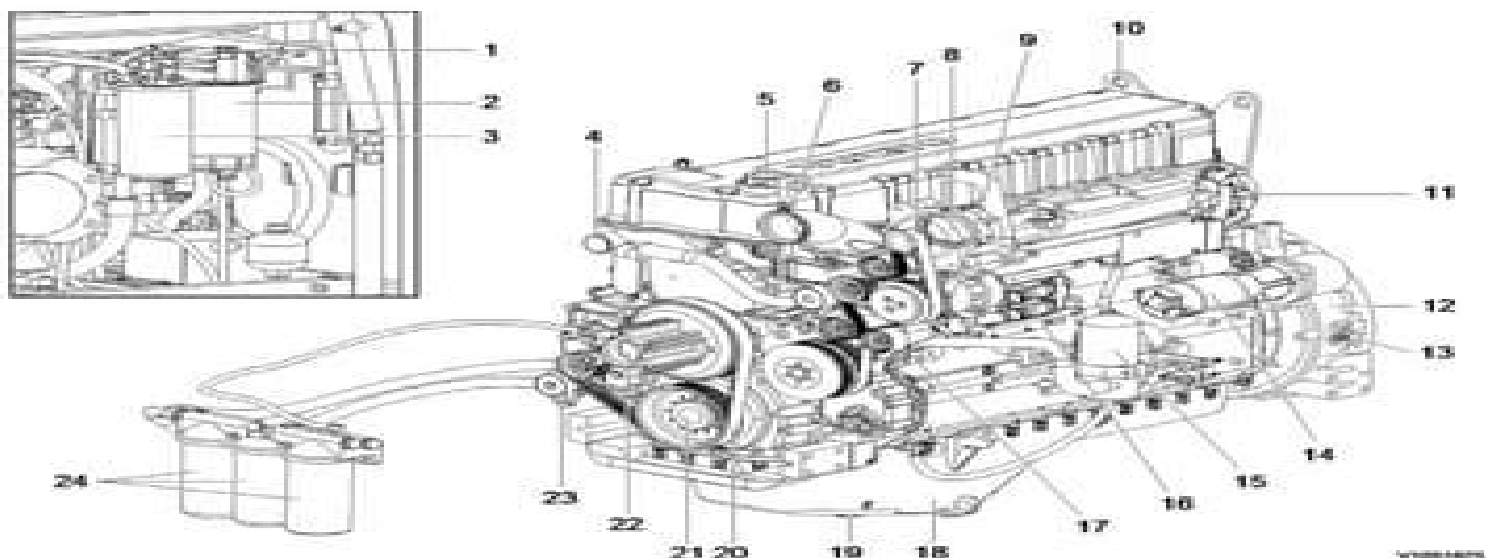


Figure 1
Engine, structure

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