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Land Rover Freelander ... x

Engine - I6 3.2L Petrol - Engine
Description and Operation
Published: 11-May-2001

EXTERNAL VIEW

E79455

E79456

OVERVIEW

The I6 petrol engine is a 3.2 litre, inline 6-cylinder, naturally aspirated unit, with 4 valves per cylinder, operated by 2 overhead camshafts. The engine emissions comply with EURO 4 (European Union emission regulations) and Ultra Low Emissions Vehicle (ULEV) II legislative requirements and employs catalytic converters, electric engine management control and pressure controlled crankcase ventilation to limit the emission of pollutants. The cooling system is a low volume, high velocity system. The Engine

Control Module (ECM) controls the fuel injection system and the ignition system.

The cylinder block is of aluminum alloy construction with cast iron liners and a pressed aluminum bedplate section bolted to the bottom of the block to improve lower structure rigidity. The single-piece oil sump is also of a pressed aluminum construction. The cylinder head and the camshaft bearing housing are manufactured from cast aluminum. The exhaust manifolds are of a fabricated stainless steel twin skin design incorporating catalytic converters and a moulded plastic acoustic cover is fitted over the upper engine to reduce engine-generated noise.

Engine Structure

E89592

Item	Part Number	Description
1	-	Camshaft bearing housing
2	-	Cylinder head
3	-	Cylinder block
4	-	Bedplate section
5	-	Oil pan
	-	Gear housing

Technical features

The engine technical features include:

- A 6-cylinder, inline configuration, liquid cooled, aluminum cylinder block with cast iron liners
- Pistons are cast from a light alloy metal, with 2 compression rings and a 3-piece oil control ring
- Aluminum cylinder head, incorporating 2 camshafts
- Four valves per cylinder
- Variable lift height hydraulic valve tappets (intake only)
- Variable Camshaft Timing (VCT) (intake only)
- Crankshaft vibration damper to give the crankshaft a smoother operation
- A single gear driven camshaft timing chain drives both camshafts
- An aluminum bedplate section between the oil pan and cylinder block
- A forged steel crankshaft with induction hardened bearing surfaces
- Forged steel connecting rods

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