

Timing gear

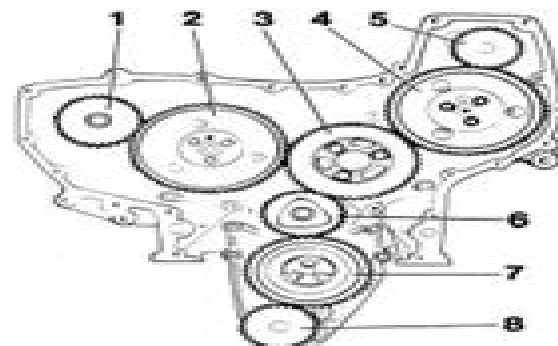
The timing gear consists of cylindrical gear wheels with spiral cut teeth.

The injection pump and camshaft are driven from the crankshaft gear via an idler gear. The engine oil pump is also driven from the crankshaft gear via an idler gear.

In addition to the camshaft, the camshaft gear also drives the gear for the sea water pump (the sea water pump on the TAMD63 is driven by a Poly-Vee belt).

If a servo pump is fitted (extra equipment), this is also driven from the camshaft gear.

Three different surface treatments have been used on the gear wheels: case hardening, hardening & tempering and nitrocarburising. Please refer to the instructions about nitrocarburised gears on page 61 before replacing any gear wheels.



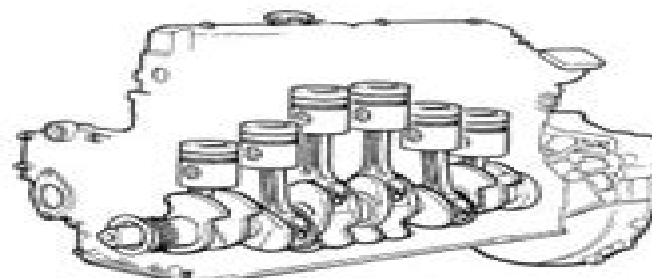
Timing gear

- 1 Sea water pump drive
- 2 Camshaft gear
- 3 Idler
- 4 Injection pump drive
- 5 Coolant pump drive
- 6 Crankshaft drive
- 7 Idler for oil pump
- 8 Oil pump drive

Crankshaft

The crankshaft is supported on seven main bearings. The thrust bearings consist of thrust washers on the centre main bearing. The crankshaft is statically and dynamically balanced. At the front, the crankshaft has a so-called polygon profile, and the rear there is a flange to which the flywheel is screwed.

The crankshaft is nitrocarburised. On condition that the shaft does not need to be re-aligned, it can be ground down to the 2nd underdimension before it needs to be nitrocarburised again.



Crankshaft with con rods and pistons

Big and small end bearings

The big and small end bearings consist of indium plated, lead bronze lined steel shells. The bearings are precision made and are entirely ready for installation.

Five under-dimensions can be obtained as spare parts. The thrust washers for axial location of the crankshaft are available in three overdimensions.

Volvo Tamd 61a Technical Manual

A. K. Legg



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