

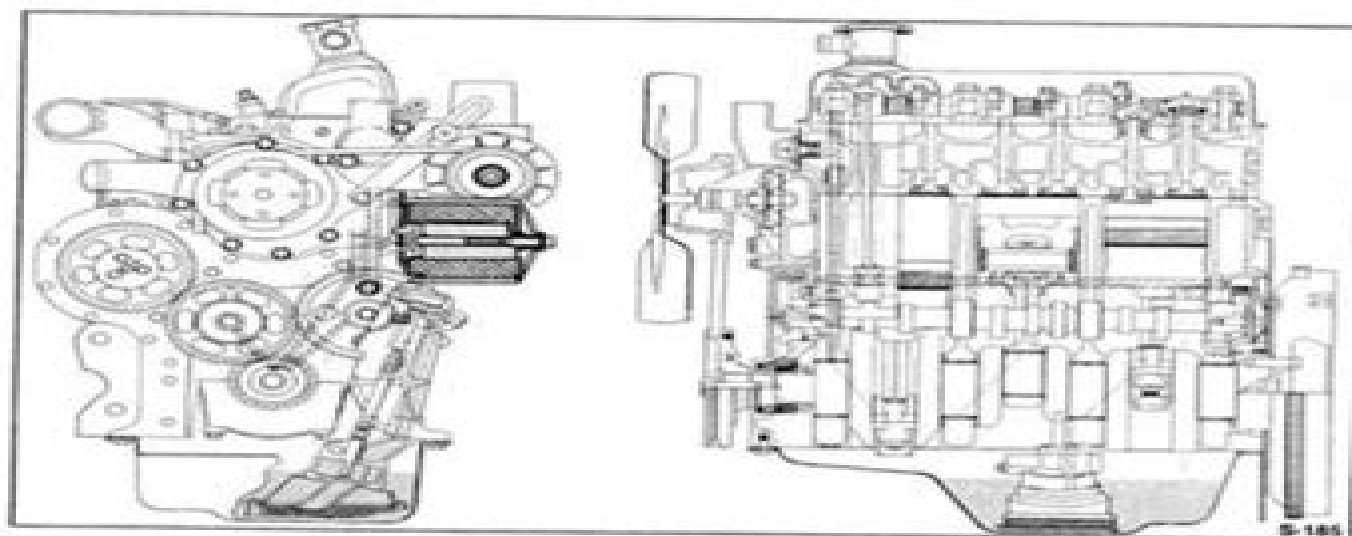


Figure 3
3-Cylinder Engine Lubrication System

Oil flows from the filter to the main oil gallery which runs the length of the cylinder block and intersects the tappet bores.

The main gallery also supplies oil through drilled passages in the block to the crankshaft main bearings, and to the connecting rod journals via drillings in the crankshaft. Additional drilled passages from each main bearing direct oil to the camshaft bearings.

The camshaft drive gear bushing is pressure lubricated through a drilled passage from the front main bearing. The gear has small oil passages machined on both sides which allow the oil to escape.

The timing gears are lubricated by oil from the main gallery and the pressure lubricated camshaft drive gear bushing.

Cylinder walls, pistons and piston pins are splash lubricated by oil thrown from the connecting rods and rotating crankshaft.

An intermittent flow of oil is directed to the valve rocker arm shaft assembly via a drilled passage in the cylinder block located vertically above the No. 1 camshaft bearing. This drilling aligns with a corresponding hole in the cylinder head. As the camshaft turns, holes in the camshaft and camshaft bearing align and a regulated stream of oil is directed to the cylinder head and on up the rocker arm shaft support bolt to the rocker shaft. The oil flows from the shaft through drilled holes in each rocker arm bushing to lubricate both ends of the arms. Excess oil flows down the push rods and assists in lubricating the tappets before draining back into the sump through cored openings in the block.

Owners Manual For Ford 340 Tractor

Zhe Xu



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