



12M3601

OPERATION

The 'T' Series engine is a four cylinder, water cooled unit comprising a cast iron cylinder block, aluminium alloy cylinder head and twin aluminium alloy camshaft carriers.

The cylinder block incorporates direct bored, siamesed cylinder bores which provide good structural rigidity. The crankshaft is carried in five main bearings, end-float being controlled by thrust washers positioned each side of the centre main bearing. The main bearing caps are located to the cylinder block by dowels; the bearing shells fitted to Numbers 1, 3 and 5 bearings are fully grooved whilst those fitted to Numbers 2 and 4 bearings are plain.

The cylinder head carries twin camshafts operating four valves per cylinder via hydraulic tappets. Exhaust valves fitted to later engines are of the 'carbon break' type. A machined profile on the valve stem removes any build-up of carbon in the combustion chamber end of the valve guide thereby preventing exhaust valves from sticking. These valves may be fitted to all early engines. Both camshafts are driven by the timing belt and run directly in journals line bored in the cylinder head and camshaft carriers. The plastic camshaft covers are bolted to the camshaft carriers.