

SECTION I

Perkins 100 Series: 102-04/102-05/ 103-06/103-07/103-09/103-10

Perama: M20/M25/M30

DESCRIPTION; GENERAL

The Perkins 100 Series is a three cylinder four stroke, liquid cooled, compression ignition engine, designed for durability, low weight and compactness. The linerless cylinder block, three-piece helical gear train and flange mounted fuel injection pump on the engine cam, reduce frictional power loss, and engine weight. The special swirl pre-combustion chamber along with the small bore multi-cylinder design offers good fuel consumption, low noise and excellent startability.

The Perkins 100 Series offers easy maintenance with all service items on the right hand side of engine.

DESCRIPTION; COMPONENT ASSEMBLY

Cylinder Block:

The cylinder block is made from high grade cast iron with copper and chrome additives and is integral with the crankcase. The crankcase features four main bearings of the tunnel block design, with crankcase walls extending well below the crankshaft centre line for strength and rigidity. The cylinder bores are plateau honed for oil retention and extended ring life. The non-machined surfaces are sealed to ensure cleanliness.

Crankshaft:

The crankshaft is a chrome-molybdenum steel forging, fully machined, static and dynamically balanced with integral counterweights. All bearing surfaces are induction hardened. The axial location is by thrust washers at number four main bearing. The four main journals run in replaceable steel-backed cast copper/lead alloy bearings. The front of the crankshaft is keyed.

Pistons and Connecting Rods:

Pistons are cast from high silicon aluminium alloy and are heat treated for low weight with high strength and good thermal conductivity. The piston is fitted with three rings; two cast iron, chrome-faced compression rings and one steel, chrome-faced controlled oil ring. The

fully floating gudgeon pin (wrist pin) is made of chrome molybdenum steel alloy hardened by carburizing and retained by the conventional circlip method. The connecting rods are machined from high strength forged steel. The big end bearings are renewable steel-backed, copper/lead alloy overlay with tin plating. The small end bearings are a press fit plain bush of tin-backed lead/bronze.

Camshaft:

The camshaft is made of forged steel and is induction hardened. Three additional lobes at the front operate the fuel injection pump. At the rear a fuel lift pump eccentric is machined. The camshaft is supported by roller and needle bearings and lubricated by splash feed. The nose of the camshaft supports the tachometer drive, cam gear, governor weight cage and governor slider assembly.

Cylinder Head:

The cylinder head is made of high grade copper chrome cast iron. Lower speed engines have valve seats machined into the cylinder head, higher speed engines incorporate replaceable heat resistant alloy steel valve seats. Inlet and exhaust valves are made of high grade heat resistant alloy steel with tufrided stems and induction hardened heads. Each stem is fitted with a chrome molybdenum steel cap for long life.

The valves are operated by cold drawn seamless tube pushrods with hardened steel ball and forged cup ends. Flat based tappets are made from case carburized chrome molybdenum steel operating in machined bores in the cylinder block. The rocker shaft is an induction hardened hollow steel tube. Valve clearances are adjusted by hardened ball ended screws and locknuts.

Rocker Cover:

The cover is made of cast aluminium with an integral air intake, oil filler and crankcase breather. It is located in position by rocker pillar studs and secured by cap nuts.

Perkins 100 Series Workshop Manual

Marco Cascella



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