

Final Inspection

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A. Oil Leaks

After load and fuel consumption test inspect engine for oil leaks at the push rod tubes, oil pump, oil cooler, crankcase joint, and rocker box cover.

B. Oil Change

When the tests have been completed it is advisable to drain the oil, clean the oil strainer, and refill to full mark with a high quality no-additive oil.

HD oil should not be employed until the oil change at 500 km (300 mi). After this change follow the lubrication schedule on the lubrication chart.

C. Pre-installation Inspection

Before installing the engine, insure that the ignition, valve clearance, V-belt tension, and oil level are correct. Air filters should have new elements.

D. Storing Engines

Engines which will not be installed for some time after break-in tests should be protected against corrosion by injecting preservative oil into the carburetor air intakes during the last few revolutions before the engine stops. The exterior of the engine should also be sprayed with preservative.

Testing Partly Rebuilt Engines

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If an engine has been only partly rebuilt (i.e. new valves installed and seated), the full power tests should not be carried out until the engine has been run for at least 30 minutes on the test stand. If the crankshaft, bearings, pistons and cylinders have not been renewed, it is not absolutely necessary that the oil be changed after break-in is completed.

The following procedure should be carried out when testing partly rebuilt engines:

1. Preliminary inspection.
2. Check fuel system.
3. Fuel consumption and bhp tests at full load.
4. Check for oil leaks.
5. Pre-installation inspection.