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SERVICE INSTRUCTION

DATE: January 27, 2011 Service Instruction No. 1534
Engineering Aspects are
FAA (DER) Approved

SUBJECT: Service Recommendations for Long-Term Storage of Engines That Use
Automotive Fuel

MODELS AFFECTED: All Lycoming aircraft engines using automotive fuel

TIME OF COMPLIANCE: Before engine storage for a duration of 6-months or longer

NOTE

Incomplete review of all the information in this document can cause errors. Read the entire Service Instruction to make sure you have a complete understanding of the requirements.

The Service Instruction only applies to Lycoming engines that have been operated on automotive fuel (as specified in the latest revision of Service Instruction No. 1070) and are to be stored for 6 or more consecutive months.

Before storing an engine, Lycoming recommends the following:

1. Either operate the engine or drain the aircraft fuel system per the aircraft manufacturer's instruction until the fuel tank contains less than 50% of automotive fuel.
2. Add the specified aviation fuel, as per the latest revision of Service Instruction No. 1070, until the aircraft fuel tanks are full.

NOTE

The aviation fuel can be mixed with the automotive fuel. The goal is to have more than 50% aviation fuel in the fuel tanks during storage to prevent fuel system clogging.

3. Operate the engine for a minimum of 45 minutes with the oil temperature at 180°F (80°C) to work the aviation and automotive fuel mixture through the engine and fuel lines.



WARNING

IF THE 45 MINUTE ENGINE OPERATION PORTION OF THIS SERVICE INSTRUCTION IS DONE ON THE GROUND, DO NOT OPERATE THE ENGINE AT FULL-STATIC FOR MORE THAN 10 SECONDS.

4. Add more aviation fuel to make sure that the aircraft fuel tanks are full.
5. Obey the storage preservation recommendations in the latest revision of Service Letter No. L180.



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