

SERVICE BULLETIN**SB20-03**

Compliance Will Enhance Safety

TECHNICAL PORTIONS
FAA APPROVED**SUBJECT:** Engine Preservation during COVID-19 Pandemic**PURPOSE:** Alternative instructions for engine preservation and storage**COMPLIANCE:** As necessary, effective immediately and shall remain in effect for 12 months, or until COVID-19 restrictions are lifted by your governing airworthiness authority, whichever occurs first.**MODELS****AFFECTED:** Continental Aerospace Technologies aviation gasoline (AvGas) engines.**I. GENERAL INFORMATION**

Many customers and airworthiness authorities have contacted Continental Aerospace Technologies recently with questions about the engine preservation instructions in M-0, Section 9-1.4. Due to the COVID-19 pandemic, current government restrictions in many locations prevent full compliance with certain steps contained in the instructions in M-0, Section 9-1.4. The availability of Engine Preservation Oil (MIL-PRF-46002) is also in short supply due to the multitude of aircraft placed in storage at this time.

II. ENGINE PRESERVATION AND STORAGE

The instructions in M-0, Standard Practice Maintenance Manual, Section 9-1.4 afford the best protection against corrosion resulting from aircraft inactivity.

CAUTION: Continental recommends servicing the engine and spraying the cylinder walls of the engine with MIL-PRF-46002, Engine Preservation Oil. The probability of corrosion forming on the cylinder walls if the engine is not serviced with MIL-PRF-46002 increases in areas of high humidity and is highest in coastal areas near salt water.

If compliance with the instructions in M-0, Section 9-1.4 is permitted, and MIL-PRF-46002, Engine Preservation Oil is available, proceed as instructed in M-0.

If MIL-PRF-46002, Engine Preservation Oil is available, *but flight is prohibited*, an exception is granted to omit the one hour flight (M-0, Section 9-1.4, steps 2 through 5) prior to placing the engine in storage, until flight restrictions associated with COVID-19 are lifted. Perform all remaining “Engine Preservation and Storage” steps in M-0, Section 9-1.4.

If MIL-PRF-46002, Engine Preservation Oil is *not available, and flight is prohibited*, due to government restrictions applied to counteract the spread of COVID-19, an exception is granted to omit the one hour flight (M-0, Section 9-1.4, steps 1 through 5, 9, and 10) and servicing the engine with MIL-PRF-46002, until flight restrictions associated with COVID-19 are lifted. Drain the engine oil, replace the engine oil filter, and service the engine with Grade 50 SAE J-1966 mineral oil (M-0, Table 3-2) instead of MIL-PRF-46002. Perform all remaining “Engine Preservation and Storage” steps in M-0, Section 9-1.4.

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III. RETURNING THE ENGINE TO SERVICE AFTER STORAGE

When permitted to return to “normal” operations; perform the inspections and maintenance listed in Section 6-4.4 of M-0, before resuming normal flight operations, including:

1. cylinder visual inspection
2. engine borescope
3. differential pressure check, *and*
4. instructions in Section 9-1.6, “Return an Engine to Service after Storage.”