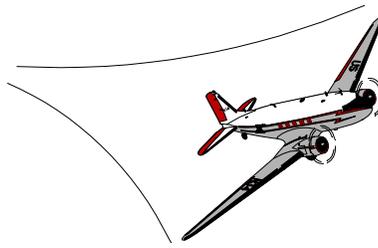


SPECIAL AIRWORTHINESS INFORMATION BULLETIN



U.S. Department
of Transportation
**Federal Aviation
Administration**

AIRCRAFT CERTIFICATION SERVICE
800 INDEPENDENCE AVENUE, S.W.
WASHINGTON, DC 20591

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This is issued for informational purposes only and any recommendation for corrective action is not mandatory.

Introduction:

The purpose of the Special Airworthiness Information Bulletin (SAIB) is to alert the owners/operators of Textron Lycoming O-320-H, O-360-E, LO-360-E, TO-360-E, LTO-360-E series engines of the following approval of an alternative method of compliance to the requirements of AD 80-04-03 R2.

The FAA has determined that the anti-wear additive contained in Aeroshell Oil W 100 Plus is the same as Textron Lycoming additive LW-16702 and therefore meets the requirements of Textron Lycoming Service Bulletin 446B, 446C, and 446D. Engine oil change to Aeroshell Oil W 100 Plus is approved by the FAA as an alternative method of compliance to the requirements of AD 80-04-03 R2, paragraph b.1, with the limitations described below.

Background:

The research division of Shell Oil Company has completed a certification program to substantiate the anti-wear characteristics of Aeroshell Oil W 100 Plus. As stated above, this oil contains an additive that is identical to Textron Lycoming additive LW-16702, which is required to be added to certain O-360 engine models at each 50 hour oil service interval by AD 80-04-03 R2. The FAA has determined that the use of Aeroshell Oil W 100 Plus provides the necessary anti-wear protection at engine start-up and therefore satisfies the intent of the AD.

Recommendations:

The FAA has determined that the anti-wear additive contained in Aeroshell Oil W 100 Plus is the same as Lycoming additive LW-16702 and therefore meets the requirements of Textron Lycoming Service Bulletin 446B, 446C, and 446D. Engine oil change to Aeroshell Oil W 100 Plus is approved as an alternative method of compliance to the requirements of AD 80-04-03 R2, paragraph b.1.

Use of this alternative method of compliance is not mandatory, however, if the owner/operator elects to use Aeroshell Oil W 100 Plus when complying with AD 80-04-03 R2, the following limitations are applicable:

- If the owner/operator elects to use Aeroshell Oil W 100 Plus at the 50 hour oil service interval, Aeroshell Oil W 100 Plus is also required for any make-up oil additions performed during the service interval.
- If Aeroshell Oil W 100 Plus is unavailable for make-up, a maximum of 2 quarts of an alternative oil can be added between 50 hour oil service intervals.
- If more than 2 quarts of an alternative oil is added during the 50 hour oil service interval, the owner/operator is required to add Textron Lycoming additive LW-16702.
- If the oil service interval is extended beyond 50 hours, the owner/operator is required to add Textron Lycoming additive LW-16702 at 50 hours to maintain compliance with the AD.

Each can of Aeroshell Oil W 100 Plus will be marked with the following statement:

“Engine oil drain and fill with Aeroshell Oil W 100 Plus has been approved by the FAA as an alternative method of compliance to AD 80-04-03 R2, paragraph b.1.”

For Further Information Contact:

Federal Aviation Administration, Mark Rumizen, ANE-110, 12 New England Executive Park, Burlington, MA 01803,
Tel: (781) 238-7113, Fax: (781) 238-7199, email: mark.rumizen@faa.gov.