



**SAIB:** NE-06-31R6  
**Date:** 09/26/2022

**SUBJ:** Engine Lubricating Oils

*This is information only. Recommendations aren't mandatory.*

## **Introduction**

This **Revised** Special Airworthiness Information Bulletin alerts you, owners and operators of Lycoming Engines (Lycoming) O-320-H, O-360-E, LO-360-E, TO-360-E, LTO-360-E series engines that the name of one of the approved additized lubricating oils listed in Table 1 of this SAIB was changed. ConocoPhillips changed the name of Phillips 66 Type 100 AW to Phillips 66 Victory Aviation Oil 100 AW and we changed the name in Table 1 of this SAIB. In addition, Phillips 66 Victory Aviation Oil AW 20W-50AW has been added to Table 1 of this SAIB, and a NOTE providing contacting information for additional Oil AMOC's has also been added.

The oils listed in Table 1 of this SAIB are approved as AMOCs to the requirements of airworthiness directive (AD) 80-04-03 R2, paragraph b.1. All other information remains the same. The airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

We have determined that the anti-wear additive contained in the engine lubricating oils listed in Table 1 of this SAIB is the same as Textron Lycoming additive, LW-16702, and therefore meets the requirements of Lycoming Service Bulletins 446B, 446C, 446D, and 446E. We approve changing to any of these engine oils as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1, with the limitations described below.

## **Background**

AD 80-04-03 R2 requires that Textron Lycoming additive, LW-16702, be added to certain O-360 engine models to provide anti-wear protection at engine start. The AD requires the additive to be replenished at each 50-hour oil service interval due to depletion of the additive with service time. The engine lubricating oils listed in Table 1 of this SAIB contain an additive that is identical to Textron Lycoming additive, LW-16702. We determined the use of engine lubricating oils listed in Table 1 of this SAIB provide the necessary anti-wear protection at engine start-up and therefore satisfies the intent of the AD. As with Textron Lycoming additive, LW-16702, these additized engine lubricating oils must be replaced at each 50-hour oil service interval to replenish the additive contained in the oil. This can be accomplished either by changing the oil and adding new additized oil, or by adding Textron Lycoming additive, LW-16702, if the oil is not changed.

Table 1 of this SAIB lists the 15 additized oils approved as an AMOC to AD 80-04-03 R2.

**Table 1**

| <b>Additized Oil</b>                        | <b>Date of AMOC Approval</b> |
|---|------------------------------|
| Aeroshell Oil W 15W-50                      | November 9, 1987             |
| Aeroshell Oil W 100 Plus                    | May 4, 1999                  |
| Aeroshell Oil W 80 Plus                     | February 6, 2006             |
| Exxon Aviation Oil Elite 20W-50             | January 24, 2003             |
| Castrol Aviator AD 65                       | May 27, 2003                 |
| Castrol Aviator AD 80                       | May 27, 2003                 |
| Castrol Aviator AD 100                      | May 27, 2003                 |
| Castrol Aviator AD 120                      | May 27, 2003                 |
| Aeroshell Oil W 80 Plus                     | February 6, 2006             |
| Phillips 66 Victory® Aviation Oil 100 AW    | April 4, 2006                |
| Phillips 66 Victory® Aviation Oil AW 20W-50 | September 20, 2022           |
| Total AERO DM 15W50                         | May 22, 2009                 |
| Total AERO XPD 80                           | June 17, 2011                |
| Total AERO XPD 100                          | June 17, 2011                |
| Total AERO XPD 120                          | June 17, 2011                |

### **Recommendations**

We approve changing to any of the engine oils listed in Table 1 of this SAIB as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1, with the limitations described below.

Use of this AMOC is not mandatory, however, if you use any of the oils listed in Table 1 of this SAIB, or any of the other approved, additized oils when complying with AD 80-04-03 R2, the following limitations apply:

- If you elect to use approved, additized oil at the 50-hour oil service interval, you must use the same brand and formula of additized oil for any make-up oil added between 50-hour oil service intervals.
- If the same brand and formula of approved, additized oil is unavailable for make-up, a maximum of 2 quarts of an alternative Lycoming-approved oil listed in Lycoming Service Instruction No. 1014M may be added between 50-hour oil service intervals.
- If you add more than 2 quarts of an alternative Lycoming-approved oil listed in Lycoming Service Instruction No. 1014M during the 50-hour oil service interval, you must also add Textron Lycoming additive, LW-16702.
- All additives will be depleted if you extend the 50-hour oil service interval. Therefore, if you extend the 50-hour oil service interval, we require that you add Textron Lycoming additive, LW-16702, to the existing oil to renew the anti-wear protection and to maintain compliance with AD 80-04-03 R2.
- Use only additized oil from containers marked with a statement identifying it as approved, through an AMOC, to the requirements of AD 80-04-03 R2, paragraph b.1.

### **NOTE**

Equivalent methods of compliance may be approved by the Manager, New York Aircraft Certification Office Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590, Phone (516) 228-7300, Fax (516) 794-5531.

### **For Further Information Contact**

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