

## Grant Robinson

---

**From:** Mcconnell, DAVE P <dave.p.mcconnell@lmco.com>  
**Sent:** Wednesday, February 08, 2017 2:47 PM  
**To:** Grant Robinson  
**Subject:** Use of Mobil 1 in S-76D Gearboxes  
**Attachments:** Authorization Letter-Mobil 1 ATF-17-02-08.pdf

Grant;

Following is the CSE response to my FTR requesting approval to service S-76D gearboxes with Mobil 1 ATF.

Case Number: C0052457  
Customer: Thai Aviation Services Limited  
Aircraft S/N: 761XXX  
Aircraft Model: S-76D  
ATA: 12/63  
Part Number: 76351-09600  
Case Subject: Request For Letter To Change To Mobil 1 ATF

### Problem Description:

Thai Aviation Services request a letter of no objection authorizing the use of Mobil 1 Synthetic ATF as the lubricant in MGB (76351-09600-Series), IGB (76357-75600-Series) and TGB (76358-75600-Series), in all TAS S-76D aircraft.

Current oil used is Royco 555.

Please provide a letter on Sikorsky letterhead addressed to Grant Robinson, Type Engineer Sikorsky Products, Thai Aviation Services.

### Problem Resolution:

It has been reported back to SAC Engineering that many customers are using Mobil 1 ATF with great success in the Quiet Main Gearboxes. SAC Engineering does not recommend using any Dexron III oil as there is significant variation among all the different varieties that have historically certified to this specification. Also there is currently no approving authority for other than Dexron VI oils. SAC Engineering has three open actions currently on the books, 1) issuing an alternate specification to Dexron III to enable formal approval, 2) approval of an alternate commercial oil (currently considering Mobil VI) and 3) updating the seals to more modern material that are compatible with a wider variety of oils. Currently items 1 & 3 are active.

SAC Engineering does not object to the customer using Mobil 1 ATF in the S76 Quiet Main Gearbox P/N 76351-09600-050, and the Intermediate/Tail Gearboxes for all S-76D aircraft in the TAS fleet.

### David P. McConnell

Senior Field Service Representative  
Sikorsky, a Lockheed Martin company  
Email [dave.p.mcconnell@lmco.com](mailto:dave.p.mcconnell@lmco.com)  
Smartphone +1 (203) 873-8552 (US)  
Efax +1 (860) 998-8791 (US)  
Cell +66 (0)8 7750-7920 (Thailand)



**WARNING:** THE INFORMATION IN THIS TRANSMISSION IS CONFIDENTIAL AND IS MEANT TO BE READ AND USED ONLY BY THE INTENDED RECIPIENT. ENCLOSED COMMODITIES, TECHNICAL DATA OR SOFTWARE ARE SUBJECT TO THE EXPORT CONTROL OF EITHER THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (ITAR) OR THE EXPORT ADMINISTRATION REGULATIONS (EAR) AND CANNOT BE EXPORTED WITHOUT THE AUTHORIZATION OF EITHER THE DEPARTMENT OF STATE OR THE DEPARTMENT OF COMMERCE PRIOR TO EXPORT. EXPORT INCLUDES DISCLOSURE AND OR ACCESS TO COMMODITIES, TECHNICAL DATA OR SOFTWARE BY FOREIGN NATIONALS WHETHER LOCATED IN THE UNITED STATES OR ABROAD. THIS REQUIREMENT APPLIES EQUALLY TO FOREIGN NATIONAL EMPLOYEES OF U.S. COMPANIES AND THEIR FOREIGN SUBSIDIARIES. THIS DOCUMENT, OR AN EMBODIMENT OF IT IN ANY MEDIA, DISCLOSES INFORMATION WHICH IS PROPRIETARY, IS THE PROPERTY OF SIKORSKY AIRCRAFT CORPORATION AND/OR ITS SUBSIDIARIES, IS AN UNPUBLISHED WORK PROTECTED UNDER APPLICABLE COPYRIGHT LAWS, AND IS DELIVERED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED, DISCLOSED, REPRODUCED, IN WHOLE OR IN PART (INCLUDING REPRODUCTION AS A DERIVATIVE WORK), OR USED FOR MANUFACTURE FOR ANYONE OTHER THAN SIKORSKY AIRCRAFT CORPORATION AND/OR ITS SUBSIDIARIES WITHOUT ITS WRITTEN CONSENT, AND THAT NO RIGHT IS GRANTED TO DISCLOSE OR SO USE ANY INFORMATION CONTAINED HEREIN. ALL RIGHTS RESERVED. ANY ACT IN VIOLATION OF APPLICABLE LAW MAY RESULT IN CIVIL AND CRIMINAL PENALTIES. ANY REVIEW, USE, DISSEMINATION, DISTRIBUTION OR COPYING OF THIS TRANSMITTAL BY AN UNINTENDED RECIPIENT IS STRICTLY PROHIBITED, AND MAY BE A VIOLATION OF LAW SUBJECT TO PENALTY.