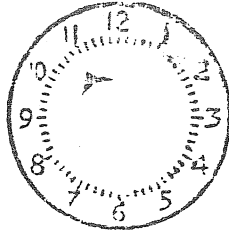




Allison

MAR 14 '84 AM



Inter-Organization

To: W. F. Sawyer
F. X. McDonald

MILITARY AIRCRAFT SERVICE Address:

U4
T3

From: J. F. Leach

Date: March 9, 1984

Subject: Use of Fuel Treated with BIOBOR JF Fungicide in T56 Engines

Reference: L. O. Davidson to Standard Oil Company Letter,
S/N THO-1054L-MSS, dated July 16, 1968

BIOBOR JF was approved by the referenced letter as a fungicide additive to fuel used in Allison Model 501-D13, -D22, and -D36 engines. Subsequently, a statement to this effect was added to the engine nomenclature and specifications chart (Table 1) of the Operating Manual for these engine models. The statement was qualified to permit "periodic use at concentrations not to exceed 270 PPM".

Recently, a T56 Series III engine completed a 300 cycle (150-hour) Accelerated Endurance Test using fuel with BIOBOR JF additive at a concentration of 135 PPM. No operating problems were encountered during the test and at completion the engine hardware did not exhibit any detrimental effects attributable to use of the additive.

Based upon the previous satisfactory "periodic" usage of BIOBOR JF in the Series I and Series II 501-D models and successful completion of the T56 Series III AET with this additive, approval is hereby granted for continuous use of fuel with BIOBOR JF additive in Allison Series I, II, and III engines. Approval is granted with the restriction that the additive concentration shall not exceed 135 PPM.

It is requested that the military users of the Series I, II, and III T56 engines be notified immediately of the BIOBOR JF approval and the manuals be changed at the next revision to include this fuel additive in a concentration not to exceed 135 PPM. Additionally, it is requested that FAA approval be solicited for inclusion of this same information in all of the 501-D engine operating manuals. The report on the previously noted Series III AET which may be required to substantiate the request to the FAA is being prepared.

J. F. Leach / JFL

J. F. Leach
Chief Project Engineer
T56/501/Convair Projects

MAF/wlw

cc: W. L. McIntire, J. F. Leach, E. A. Obrisu, T. C. Tsareff, L. M. Brady