



Power Systems

PO Box 273 • Fort Deposit, AL 36032
(334) 227-8306 • Fax: (334) 227-8596

Service Bulletin

Bulletin No. 022

Issue Date: August 5, 2004

SUBJECT: Recommended Service / Inspection

REASON: Due to isolated reports of premature bearing wear/failures in Part Number 46C19836 (466011-0002) turbochargers, Kelly Aerospace Power Systems recommends an inspection of suspect turbochargers bearing the following Serial Numbers.

PRODUCTS

AFFECTED: P/N: 46C19836 (466011-0002) Turbocharger, bearing the following Serial Numbers:
FIL00181 FIL00185 FIL00191
FIL00182 FIL00188 FIL00193
FIL00184 FIL00190 FIL00194

COMPLIANCE: Within the next 50 hours of operation or at the next 100 hour or annual inspection, which ever comes first.

SCOPE: The instructions contained herein are limited in their scope to the abovementioned units as identified by their individual S/Ns.

PROCEDURE:

A. VISUAL INSPECTION:

1. Access the aircraft turbocharger in accordance with the approved aircraft maintenance instructions.
2. If the SN field of the Turbocharger data tag is inscribed with one of the Serial Numbers referenced above, continue following the service instructions found below. If the SN field reflects any other number, disregard this bulletin and make a "not applicable" logbook entry to comply with this service bulletin.
3. Visually inspect each Turbocharger at the Compressor Inlet and the Turbine Outlet for any indication of contact. Look for witness marks from the Impeller or the Turbine Wheel, giving careful attention to the wheel blades and the inner walls of the Turbine and Compressor housings. Contact marks on the housings from their respective wheels will appear as a burnishing on the inner walls. Utilize supplemental lighting if needed to facilitate visual inspection.

B. MANUAL INSPECTION:

1. Grasping the turbine wheel and compressor wheel firmly in both hands, exert a gentle side-load by pulling/pushing both wheels in the same direction while rotating the wheel assembly. If contact against the housing(s) is heard or felt, proceed to step B2.
If no contact is discernable, simply place an entry in the engine log book indicating compliance with this inspection. A follow-up inspection must be performed at the next 100 hour and/or annual inspection. After successfully completing two subsequent inspections at 100 hour intervals, this SIL may be disregarded. No further inspection is required.
2. If contact is discernable, remove the turbocharger from the engine/airframe in accordance with accepted procedures found in the approved aircraft maintenance instructions. Contact the Customer Support / Warranty division of Kelly Aerospace Power Systems.

Kelly Aerospace Power Systems
Attn: Warranty Department
P.O. Box 273, Airport Complex
Fort Deposit, AL 36032
(334)-227-8306