



2900 Selma Highway
Montgomery, AL 36108 USA
Tel: 334-386-5400 Fax: 334-386-5450

Service Bulletin

Bulletin No. 022 Rev. A
(Supercedes Bulletin No. 022)

Revision Date: September 1, 2004
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FAA Approved

SUBJECT: Recommended Service / Inspection

REASON: Due to isolated reports of premature bearing wear/failures in certain Part Number 46C19836 (466011-0002) turbochargers, Hartzell Engine Technologies LLC recommends an inspection of the suspect turbochargers.

PRODUCTS

AFFECTED: P/N: 46C19836 (466011-0002) Turbocharger, with 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 nine above-mentioned units as identified by their individual serial numbers.

PROCEDURE:

- A. VISUAL INSPECTION:
1. Access the aircraft turbocharger in accordance with the approved aircraft maintenance instructions.
 2. If the S/N 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 S/N field reflects any other number, disregard this bulletin and make a "not applicable" (N/A) 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. Examine the housings for witness marks from the Impeller or the Turbine Wheel, giving careful attention to the wheel blades and the inner walls of both 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 SB 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 Department of Hartzell Engine Technologies LLC for turbocharger disposition instructions.

Hartzell Engine Technologies LLC
Attn: Warranty Department
2900 Selma Highway
Montgomery, AL 36108 USA
(334)-386-5441