



Lufttüchtigkeitsanweisung (LTA) Consigne de Navigabilité (CN) Direttive sulla Navigabilità (DN) Airworthiness Directive (AD)		FOCA AD HB-2011-004
Inkraftsetzung Mise en vigueur Entrata in vigore Effective Date	10 August 2011	Pilatus – PC-9 FOCA TC/TCDS No: F 56-22

Issue Date: 27 July 2011

ATA Chapter: ATA 57 – Wings

Subject: **Wings – LH & RH Outboard Aileron Bearing Brackets – Inspection**

Supersedure / Revised AD(s): Not applicable

Type Certificate Holder's Name: Pilatus Aircraft Ltd.

Manufacturer(s): Pilatus Aircraft Ltd.

Applicability: Model PC-9 aircraft, Manufacturer Serial Numbers (MSN) 101 through MSN 248 and MSN 501 through MSN 567 inclusive, without Service Bulletin 57-017 accomplished.

Reason: This Airworthiness Directive (AD) is prompted due to the discovery of cracks in the outboard aileron bearing brackets. The cracks are caused by stress corrosion. It is possible for stress corrosion cracks to occur in brackets initially made of aluminium alloy 2024-T351. Later in production, the material specification was changed to aluminium alloy 2124-T851 to decrease the risk of stress corrosion. The Part Number (P/N) of the brackets remained the same.

Such a condition, if left uncorrected, could lead to failure of the brackets and possible jammed or lost aileron in flight.

In order to correct and control the situation, this AD requires a one-time check to identify the material specification and inspect those affected brackets that are made of aluminium alloy 2024-T351. Any brackets found to be cracked are to be replaced prior to further flight.

Required Action(s) and Compliance Time(s): Required as indicated below, unless already accomplished:

- (1) Within 1 month after the effective date of this AD, perform a conductivity test to identify the material specification of the brackets (LH, P/N 557.22.09.281 & RH, P/N 557.22.09.282) as required by paragraph (§) 3.B. of PILATUS PC-9 Service Bulletin No. 57-016.
- (2) If during the conductivity test required by § (1) of this AD, brackets made of aluminium alloy 2024-T351 are found, prior to further flight, perform the inspection in accordance with (§) 3.C. of PILATUS PC-9 Service Bulletin No. 57-016.

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Note 1: The Aircraft Maintenance Manual (AMM) will be updated to include a repeat inspection of all brackets made of aluminium alloy 2024-T351.

- (3) If during the inspection required by § (2) of this AD, cracks are found in the LH or RH brackets, prior to further flight, replace the brackets in accordance with PILATUS PC-9 Service Bulletin No. 57-017.

Ref. Publication(s): PILATUS PC-9 Service Bulletin No. 57-016, initial issue.
PILATUS PC-9 Service Bulletin No. 57-017, initial issue.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

For further information contact: The applicable manufacturer's documentation may be obtained directly from:

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