



Notification of a proposal to issue an Airworthiness Directive

PAD No.: 15-153

Issued: 14 December 2015

Note: This Proposed Airworthiness Directive (PAD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

Design Approval Holder's Name:

TURBOMECA

Type/Model designation(s):

ARRIEL 1 engines

Effective Date: [TBD - standard: 14 days after Final AD issue date]

TCDS Number(s): EASA.E.073

Foreign AD: Not applicable

Supersedure: None

ATA 72 – Engine – Gas Generator (Module 03) / Piston Shaft Small Diameter Labyrinth – Modification / Replacement

Manufacturer(s):

Turbomeca

Applicability:

ARRIEL 1D and 1D1 engines, all serial numbers.

These engines are known to be installed on, but not limited to, Airbus Helicopters (formerly Eurocopter) AS 350 BB, B1 and B2 helicopters.

Reason:

Some cases of divergent rubbing between the piston shaft small diameter labyrinth and the rear bearing support have been reported.

This condition, if not corrected, could lead to an uncommanded engine in-flight shutdown.

To address this potential unsafe condition, Turbomeca developed a modification (reference Turbomeca Mod TU 357) of the piston shaft that provides an increased clearance between the



piston shaft small labyrinth and the rear bearing support. Turbomeca published Service Bulletin (SB) 292 72 1357 to provide instructions for embodiment of this modification in service.

For the reasons described above, this AD requires embodiment of Mod TU 357.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

- (1) For an engine in pre-Mod TU357 configuration, within 4 months after the effective date of this AD, modify the engine by replacing the module 03 with a post-Mod TU357 module 03 in accordance with the instructions of Turbomeca Mandatory SB 292 72 1357 version B (or later).
- (2) From 01 May 2016, it is allowed to install a module 03 on an engine, provided it is determined that the module 03 is post-Mod TU 357.
- (3) Modification of an engine before the effective date of this AD, in accordance with the instructions of Turbomeca SB 292 72 0357 version A or version B, or Turbomeca SB 292 72 1357 version A, is acceptable to comply with the requirements of paragraph (1) of this AD for that engine.

Ref. Publications:

Turbomeca SB 292 72 1357 version A dated 06 November 2014 or Mandatory SB 292 72 1357 version B dated 12 November 2015.

Turbomeca SB 292 72 0357 version A dated 12 December 2007, or version B dated 21 February 2013.

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

Remarks:

1. This Proposed AD will be closed for consultation on 11 January 2016.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. For any question concerning the technical content of the requirements in this PAD, please contact: Turbomeca, ARRIEL 1 Customer Support, 40220 Tarnos, France
Fax: +33 5 59 74 45 15, or
contact your usual or nearest Turbomeca technical representative at www.turbomeca-support.com

