



適航指令發布單

Airworthiness Directive Issuance Form

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|---|--|---------------------|-----------|
| 民航局 AD 編號 AD number | CAA-2020-07-004 緊急 | 發布日期 Date issued | 2020/7/13 |
| 適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable) | ARRIEL 1B, 1C, 1C2 and 1D1 engines, all serial numbers (s/n). These engines are known to be installed on, but not limited to, Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aerospatiale) AS 350 B, BA, BB, B1 and B2, AS 365 and SA 365 (all models, except AS 365 N3) helicopters. | | |
| 主旨摘要 | Engine - Module 03 / Stage 2 High Pressure Turbine Disc - Replacement | | |
| 民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other | 設計國民航主管機構 Original Authorities <input type="checkbox"/> FAA <input type="checkbox"/> Germany LBA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> CAA-NL <input type="checkbox"/> Brazil <input type="checkbox"/> UK CAA <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> Japan CAB <input type="checkbox"/> DGAC <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____ | | |
| | 設計國 AD 編號 Original AD number | 2020-0151-E | |
| | 1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No) | | |
| 備註 Note | ATA 72. Ref. Publications: SAFRAN MSB 292 72 0860 original issue dated 08 July 2020. | | |
| 註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： adcaa@mail.caa.gov.tw Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： adcaa@mail.caa.gov.tw | | | |



Emergency Airworthiness Directive

AD No.: 2020-0151-E

Issued: 09 July 2020

Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

SAFRAN HELICOPTER ENGINES

Type/Model designation(s):

ARRIEL 1 engines

Effective Date: 10 July 2020

TCDS Number(s): EASA.E.073

Foreign AD: Not applicable

Supersedure: None

ATA 72 – Engine – Module 03 / Stage 2 High Pressure Turbine Disc – Replacement

Manufacturer(s):

SAFRAN Helicopter Engines S.A. (SAFRAN), formerly Turboméca, S.A.

Applicability:

ARRIEL 1B, 1C, 1C2 and 1D1 engines, all serial numbers (s/n).

These engines are known to be installed on, but not limited to, Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aerospatiale) AS 350 B, BA, BB, B1 and B2, AS 365 and SA 365 (all models, except AS 365 N3) helicopters.

Definitions:

For the purpose of this AD, the following definitions apply:

Affected part: Stage 2 High Pressure (HP) turbine discs, having Part Number (P/N) 0292250400 and s/n J915AD, J918AD, J919AD, J921AD, J923AD, J924AD, J926AD or J927AD. Affected parts are installed on engines which have SAFRAN modification (mod) TU347 embodied, but do not have mod TU365 embodied.

Serviceable part: A Stage 2 HP turbine disc which is not an affected part, as defined in this AD.

The MSB: Safran Helicopter Engines Mandatory Service Bulletin (MSB) 292 72 0860.



Groups: Group 1 engines are those that have an affected part installed. Group 2 engines are those that do not have an affected part installed.

Reason:

Positive segregation (freckles) was detected on Stage 2 HP turbine discs manufactured from a certain block of material. Other parts manufactured from that same block of material may also be affected by this non-conformity.

This condition, if not corrected, could lead to HP turbine disc failure and result in high-energy debris release, with consequent damage to, and reduced control of, the helicopter.

To address this unsafe condition, SAFRAN issued the MSB, as defined in this AD, to identify affected HP turbine discs and provide instructions for replacement.

For the reason described above, this AD requires replacement of affected parts with serviceable parts, and prohibits re-installation of affected parts.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 engines: Within 25 flight hours after the effective date of this AD, replace each affected part with a serviceable part in accordance with the instructions of the MSB.

Parts Installation:

- (2) For Group 1 and Group 2 engines: From the effective date of this AD, do not install an affected part on any engine.

Ref. Publications:

SAFRAN MSB 292 72 0860 original issue dated 08 July 2020.

The use of later approved revisions of the above-mentioned document is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
3. Enquiries regarding this AD should be referred to the EASA Programming and Continued Airworthiness Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety](#)



[reporting system](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.

5. For any question concerning the technical content of the requirements in this AD, please contact: www.tools.safran-helicopter-engines.com.

