



## Airworthiness Directive

**AD No.:** 2017-0121

**Issued:** 17 July 2017

Note: This Airworthiness Directive (AD) 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.

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 (EC) 216/2008, Article 14(4) exemption].

### Design Approval Holder's Name:

SAFRAN HELICOPTER ENGINES

### Type/Model designation(s):

ARRIEL 2C and 2S engines

**Effective Date:** 31 July 2017

**TCDS Number(s):** EASA.E.001

**Foreign AD:** Not applicable

**Supersedure:** This AD supersedes EASA AD 2015-0177 dated 25 August 2015.

## ATA 05 – Time Limits / Maintenance Checks – Airworthiness Limitation Section – Amendment / Implementation

### Manufacturer(s):

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

### Applicability:

ARRIEL 2C, 2C1, 2C2, 2S1 and 2S2 engines, all manufacturer serial numbers.

### Reason:

The airworthiness limitations and maintenance tasks applicable to the ARRIEL 2C and 2S engines series are currently specified in the applicable ARRIEL 2 maintenance manuals (MM), Section 05-10, which are approved by EASA.

Failure to implement these limitations or accomplish these tasks could result in an unsafe condition. Consequently, compliance with these actions has been identified as mandatory for continued airworthiness.

SAFRAN Helicopter Engines revised Section 05-10, EASA approval date 23 September 2016, of the MM applicable to Model 2C, 2C1, 2C2, 2S1 and 2S2 engines (hereafter collectively referred to as 'the applicable ALS' in this AD). Those revisions incorporate new instructions acceptable to comply with Turboméca Mandatory Service Bulletin (SB) 292 72 2860 version A, as required by EASA AD 2015-0177.



For the reasons described above, this AD retains the requirements of EASA AD 2015-0177, which is superseded, and requires implementation of the airworthiness limitations and maintenance tasks as specified in the applicable ALS.

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

Required as indicated, unless accomplished previously:

#### **Replacement of Life-Limited Parts / Maintenance Tasks:**

(1) From the effective date of this AD, accomplish the following actions, as specified in the applicable ALS:

(1.1) Replace each component before exceeding the applicable life limit, and

(1.2) Within the thresholds and intervals (see Note 1 of this AD), accomplish all applicable maintenance tasks.

Note 1: For the purpose of this AD, the thresholds and intervals as defined in the applicable ALS may include a 'tolerance' for certain tasks.

#### **Corrective Action(s):**

(2) In case of finding discrepancies (as defined in the applicable ALS) during accomplishment of any task as required by paragraph (1) of this AD, within the compliance time specified in the applicable ALS, accomplish the applicable corrective actions in accordance with the approved maintenance documentation. If no compliance time is identified in the ALS, accomplish the applicable corrective actions before next flight. If a detected discrepancy is not identified in the ALS, before next flight, contact SAFRAN Helicopter Engines for approved instructions and accomplish those instructions accordingly.

#### **Aircraft Maintenance Programme (AMP) Revision:**

(3) Within 12 months after the effective date of this AD, revise the approved AMP, on the basis of which the operator or owner of the helicopter (on which an affected engine is installed) ensures the continuing airworthiness of each operated engine, by incorporating the limitations, tasks and associated thresholds and intervals described in the applicable ALS.

#### **Credit:**

(4) For an AMP that, on the effective date of this AD, is already updated to incorporate the maintenance tasks and life limitations as specified in the ARRIEL 2C, 2C1, 2C2, 2S1 or 2S2 MM, as applicable, Section 05-10-00, dated 23 March 2016, that action ensures (see Note 2 of this AD) the continued accomplishment of those tasks and limitations.

Consequently, for an engine to which that AMP applies, it is acceptable to accomplish the new and more restrictive tasks and limitations, as defined in, and within the compliance times (see Note 1 of this AD) as specified in, the applicable ALS, to comply with paragraph (1) of this AD.

For that AMP, it is acceptable to incorporate the new and more restrictive tasks and limitations, as defined in the applicable ALS, into the AMP to comply with paragraph (3) of this AD.



**Recording of AD Compliance:**

- (5) When the AMP of a helicopter has been revised as required by paragraph (3) or (4) of this AD, as applicable, that action ensures (see Note 2 of this AD) continued accomplishment of the tasks as required by paragraphs (1) and (2) of this AD for the affected engine(s) installed on that helicopter. Consequently, after revising the AMP, as required by paragraph (3) or (4) of this AD, as applicable, it is not necessary that accomplishment of individual tasks is recorded for demonstration of AD compliance on a continued basis.

Note 2: For affected ARRIEL 2 engines installed on helicopters registered in Europe, complying with the approved AMP, as specified in paragraph (3) or (4) of this AD, as applicable, is required by Commission Regulation (EU) [1321/2014](#), Part M.A.301, paragraph 3.

**Ref. Publications:**

TURBOMECA ARRIEL 2C MM, Section 05-10, EASA approval date 23 September 2016.

TURBOMECA ARRIEL 2C1 MM, Section 05-10, EASA approval date 23 September 2016.

TURBOMECA ARRIEL 2C2 MM, Section 05-10, EASA approval date 23 September 2016.

TURBOMECA ARRIEL 2S1 MM, Section 05-10, EASA approval date 23 September 2016.

TURBOMECA ARRIEL 2S2 MM, Section 05-10, EASA approval date 23 September 2016.

The use of later approved revisions of these documents 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. This AD was posted on 29 May 2017 as PAD 17-065 for consultation until 26 June 2017. No comments were received during the consultation period.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
4. For any question concerning the technical content of the requirements in this AD, please contact: SAFRAN Helicopter Engines, ARRIEL 2 Customer Support, 40220 Tarnos, France Fax: +33 5 59 74 45 15, or contact [SAFRAN on-line for technical assistance](#).

