



適航指令發布單

Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2019-12-003	發布日期 Date issued	2019/12/13
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	ARRIUS 2G1 engines, all serial numbers. These engines are known to be installed on, but not limited to, Kamov Design Bureau Ka-226T helicopters.		
主旨摘要	Engine Fuel & Control - Fuel Filter Pre-Blockage Pressure Switch - 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 <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> FAA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> Brazil <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> DGAC </div> <div style="width: 48%;"> <input type="checkbox"/> Germany LBA <input type="checkbox"/> CAA-NL <input type="checkbox"/> UK CAA <input type="checkbox"/> Japan CAB <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____ </div> </div>		
	設計國 AD 編號 Original AD number	2019-0296	
	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 73. Ref. Publications: SAFRAN Helicopter Engines MSB N° 319 73 2856 version A (original issue), or version B.		
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			



Airworthiness Directive

AD No.: 2019-0296

Issued: 09 December 2019

Note: This 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):

ARRIUS 2G1 engines

Effective Date: 23 December 2019

TCDS Number(s): EASA.E.029

Foreign AD: Not applicable

Supersedure: None

ATA 73 – Engine Fuel & Control – Fuel Filter Pre-Blockage Pressure Switch – Replacement

Manufacturer(s):

SAFRAN Helicopter Engines (SAFRAN), formerly Turboméca

Applicability:

ARRIUS 2G1 engines, all serial numbers.

These engines are known to be installed on, but not limited to, Kamov Design Bureau Ka-226T helicopters.

Definitions:

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

The SB: SAFRAN Mandatory Service Bulletin (SB) N° 319 73 2856.

Affected part: Fuel filter pre-blockage pressure switches, having Part Number (P/N) 9 550 17 200 0, serial number (s/n) 00001 to 12753 inclusive, and s/n A0001 to A0247 inclusive.



Serviceable part: Any fuel filter pre-blockage pressure switch that is not an affected part.

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:

Occurrences have been reported of finding non-conformities on some pre-blockage pressure switches of fuel filters intended for ARRIUS 2G1 engines. This deficiency can cause its non-activation in the event of fuel system contamination. A clogged fuel filter can lead to the opening of the by-pass with no displayed indication in the cockpit. SAFRAN identified the batches of the parts that are potentially affected by this non-conformity.

This condition, if not corrected, could lead to an uncommanded engine in-flight shutdown, possibly resulting in reduced control of the helicopter.

To address this potential unsafe condition, SAFRAN published the SB, providing instructions to identify and replace the affected parts.

For the reason described above, this AD requires replacement of the affected parts. This AD also 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 7 months or 300 flight hours, whichever occurs first after the effective date of this AD, replace each affected part with a serviceable part in accordance with the instructions of the SB.

Part Installation:

- (2) It is allowed to install on any engine a fuel filter pre-blockage pressure switch, provided it is a serviceable part, as defined in this AD, as required by paragraph (2.1) or (2.2) of this AD, as applicable.
 - (2.1) For Group 1 engines: After replacement of the affected part(s) as required by paragraph (1) of this AD.
 - (2.2) For Group 2 engines: From the effective date of this AD.

Ref. Publications:

SAFRAN Helicopter Engines MSB N° 319 73 2856 version A (original issue), or version B.

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. This AD was posted on 05 November 2019 as PAD 19-198 for consultation until 03 December 2019. No comments were received during the consultation period.
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](#).
5. For any question concerning the technical content of the requirements in this AD, please contact your nearest SAFRAN Helicopter Engines technical representative, or connect to www.tools.safran-helicopter-engines.com.

