


1. Approving Civil Aviation Authority/Country: FAA/United States		2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 2022 / 12 / 0041 - LRUS	
4. Organization Name and Address: Safran Helicopter Engines USA, Inc, 2709 North Forum Drive, Grand Prairie, TX 75052 (WC1R579K)				5. Work Order/Contract/Invoice Number: 21988211		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	Pump and Metering Valve Assembly, Adjusted	0292862600	1	1038B	Overhauled	
12. Remarks: Overhauled, tested and calendar reset I.A.W. Arriel 2C C.M.M. X-73-23-04-2 Rev. 32 dated June 15, 2022. * TSN: 4646.4 TSO: 0 * Refer to Pump and Metering Valve Log Cards for ADs, SBs, and TUs applied. Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA.145.4961.						
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations; part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:	14b. Authorized Signature: 		14c. Approval/Certificate No.: FAA Cert No WC1R579K	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yy):	14d. Name (Typed or Printed): Tuan Quoc Bui		14e. Date (dd/mm/yy): 14-Dec-2022	
User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						



U.S. Department
of Transportation
**Federal Aviation
Administration**

Compliance and Airworthiness Division

ECO Branch
1200 District Avenue
Burlington, MA 01803
(781) 238-7140, Fax: (781) 238-7199

August 12, 2021

Mr. Darwin Binek
Quality Assurance Manager
Safran Helicopter Engines USA
2709 North Forum Drive
Grand Prairie, TX 75052

Subject: Global Alternative Method of Compliance to Airworthiness Directive (AD) 2021-13-03

Dear Mr. Binek:

The Federal Aviation Administration (FAA) received your letter dated July 28, 2021, proposing a global alternative method of compliance (AMOC) to paragraph (g)(2) of Airworthiness Directive (AD) 2021-13-03.

Airworthiness Directive (AD) paragraph (g)(2) requires an operational test of the fuel filter pre-blockage pressure switch in accordance with Task 73-23-01-750-801-A01-Pre-Blockage.

Your proposal would allow the testing be performed in accordance with Safran Helicopter Engines Mandatory Service Bulletin 292 73 2869, Revision B dated July 5th, 2019 or in accordance with the task for testing the pre-blockage pressure switch from the Maintenance Manual (MM) applicable to the variant they operate. Your AMOC would apply to Safran Helicopter Engines Arriel 2B, 2B1, 2C, 2C1, 2C2, 2S1 and 2S2 model turboshaft engines.

The ECO Branch has reviewed Safran Helicopter Engines Mandatory Service Bulletin 292 73 2869, Revision B dated July 5th, 2019 and the referenced Maintenance Manual (MM), and we approve your AMOC to paragraph (g)(2) of FAA AD 2021-13-03.

This FAA AMOC is transferable with the engine(s) to another owner or operator who operates the aircraft under U.S. registry.

Before using this AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local Flight Standards District Office/Certificate Holding District Office.

The preceding paragraph also applies to any applicable foreign-registered aircraft upon transfer of the aircraft to the U.S. registry if compliance with the AMOC has not been accomplished.

All provisions of FAA AD 2021-13-03 that are not specifically referenced above remain fully applicable and must be complied with accordingly.

This AMOC only applies to the FAA AD listed above. The FAA does not have the authority to approve this as an AMOC to any AD issued by another civil aviation authority (CAA). Approval of an AMOC to another CAA's AD must come from that CAA. A copy of this response will be forwarded to the CAA where this (these) aircraft is (are) registered for their consideration.

If you have any questions or need additional information, please contact Mr. Wego Wang at 781-238-7134, fax 781-238-7199, or via electronic mail at wego.wang@faa.gov.

Sincerely,

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ADLER

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B ADLER
Date: 2021.08.12 16:04:09
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(for) Tomek Rakowski
Manager, ECO Branch

cc: Propulsion and APU AEG



U.S. Department
of Transportation
**Federal Aviation
Administration**

Engine and Propeller Directorate

Engine Certification Office
1200 District Avenue
Burlington, MA 01803
(781) 238-7140, Fax: (781) 238-7199

APR 04 2017

Mr. Darwin Biniek
Quality Assurance Manager
Turbomeca USA
2709 North Forum Drive
Grand Prairie, TX 75052

Dear Mr. Biniek:

Subject: Safran Helicopter Engines Global Alternative Method of Compliance
(AMOC) to Airworthiness Directive (AD) 2014-12-05

The Federal Aviation Administration (FAA) Engine Certification Office (ECO) received your letter dated March 29, 2017, requesting a global AMOC to AD 2014-12-05, paragraph (e), for the Safran Helicopter Engines (SHE) Arriel 2B, 2B1, 2C, 2C1, 2C2, 2S1, and 2S2 engines. Paragraph (e) of AD 2014-12-05 requires inspection of the hydromechanical metering unit (HMU) drive gear shaft splines at specific times.

The Turbomeca USA global AMOC proposal would permit operators to comply with paragraph (e) of AD 2014-12-05 by upgrading an affected HMU to the TU184 configuration. The TU184 configuration introduces a new drive link design that permanently removes the unsafe condition that is addressed by AD 2014-12-05.

The ECO reviewed Turbomeca SB 292 73 2184, Version A, dated April 1, 2015, and Turbomeca SB 292 73 3184, Version A, dated March 23, 2016, and determined that the new drive link design described in these service bulletins provides an acceptable level of safety. Therefore, the FAA approves your global AMOC to paragraph (e) of AD 2014-12-05 to allow modification of an affected HMU to the TU184 configuration to be an optional terminating action for AD 2014-12-05, provided that the modification to the TU184 configuration is performed in accordance with the instructions contained in the two aforementioned service bulletins at the beginning of this paragraph.

We have determined that this AMOC is of general applicability to the Arriel 2B, 2B1, 2C, 2C1, 2C2, 2S1, and 2S2 engine type designs, and therefore this letter is issued to Turbomeca USA with the understanding that it may subsequently be distributed to operators. Operators may then use this letter, along with evidence of compliance with the terms of this letter, to document compliance to AD 2014-12-05.

This FAA AMOC is transferable with the engine(s) to another owner or operator.

Before using this AMOC, operators must notify their appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

All provisions of AD 2014-12-05 that are not specifically referenced above remain fully applicable and must be complied with accordingly.

If you have any questions or need additional information, please contact Mr. Philip Haberland at 781-238-7770, fax 781-238-7199, or via electronic mail at philip.haberlen@faa.gov.

Sincerely,

Handwritten signature of Thomas Boudreau in cursive, with the word "for" written below it.

Thomas Boudreau
Manager, Engine Certification Office

cc: Mr. Omiros Kastanis, EASA PCM
Mr. William Fullam, Boston AEG