



1. Approving Civil Aviation Authority/Country: FAA/United States		2 <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number:  <b>2023 / 09 / 0058 - LRUS</b>	
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:  <b>22167808</b>	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	<b>Pump and Metering Valve Assembly, Adjusted</b>	<b>0292861840</b>	1	<b>1333B</b>	<b>Repaired</b>	
12. Remarks: Inspected, repaired, tested and calendar reset I.A.W. Arriel 2C C.M.M. X-73-23-04-2 Rev. 33 dated June 15, 2023. * TSN: 4428.5 TSO: 1483.5 * 600 hour inspection c/w. * 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:			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12			
<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.			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.:	
			 		<b>FAA Cert No WC1R579K</b>	
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):	
			<b>David Kulmaczewski</b>		<b>26-Sep-2023</b>	
<b>User/Installer Responsibilities</b> 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.						



**Positions successives, opérations d'entretien et de remise en état mineures et majeures**  
**Successive locations, minor and major maintenance and overhaul operations**

Unité ou société Unit or Contractor	Date Date	Positions Location	Fonctionnement Operation			Motif du mouvement (code, symptômes) - Travaux effectués - Pièces changées Reason for transfer (code and symptoms) - Work carried out - Replaced parts
			Support Support	Partiel Partial	Total Total	
TURBOMECA	11/2012	TSF	/	/	0	Révision / Overhaul - SB 292 73 2822_2 & SB 292 73 2831_A & SB 292 73 2835_A applied.
TSC	7 JAN 2013	ARRIEL 2C 24320	3486	/	0	INSTALLED HMU S/N 1333B ON ARRIEL 2C S/N 24320 - <i>M. Amzaki</i>
HAMMOCK	9-JULY-21	ARRIEL 2C 24320	4923.0		1437.0	REMOVED UNDER WO# 362-WO-2107-MAX-6548
HAMMOCK	9-AUG-21	ARRIEL 2C 24124	2676.6		1437.0	INSTALLED ON ARRIEL 2C S/N 24124 UNDER WO# 290-WO-2107-RIS-6624
HAMMOCK	30-SEP-21	ARRIEL 2C 24124	2678.6	2.0	1439.0	SB 292 73 2869, FUEL PRESSURE SWITCH S/N 10065 INSTALLED. FUEL PRESSURE SWITCH INSPECTION CARRIED OUT I.A.W EMM 73.23 04-750-801 (290-WO-2108-RIS-6624)
HAMMOCK Heli	26-APR-2023	ARL1C2 S/N 24124	2723.1	44.5	1483.5	REMOVED UNDER WO# 290-WO-2304C-GAS-6624
SAFRAN HE USA	26 SEP 2023	////	////	////	1483.5	INSPECTED, REPAIRED, TESTED AND CALENDAR RESET UNDER W.O. 2216780R.
////	////	////	////	////	////	SB 292 73 2822 REV. F+G, FAA AD 2014-12-05 EASA AD 2013-0170 R1 C/w.
////	////	////	////	////	////	SB 292 73 2869 REV. B, FAA AD 2021-13-03 AMOC, EASA AD 2019-0180 S/N 10065 IS CONCERNED.
////	////	////	////	////	////	600 hour inspection C/w.

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## Positions successives et opérations d'entretien et de remise en état mineures et majeures

Successive location minor and major maintenance and overhaul operations

Aufeinanderfolgende Einbaustellen Hauptprüfungen und Grundüberholungen

Unité ou société Contractor Einheit oder Firma	Date Date Datum	Positions Location Einbaustelle	Fonctionnement Operation Betriebszeit			Motif du mouvement (code, symptômes) - Travaux effectués - Pièces changées Reason for transfer (code and symptoms) - Accomplished work - Replaced parts Ein- oder Ausbaugrund - Durchgeführte Arbeiten - Ausgewechselte Teile
			Support Support Baupruppe	Partiel Partial Teil	Total Total Gesamt	
						Positions successives avant livraison avion, voir au recto rubrique n° 5 Successive location before A / C delivery - See front page box number 5 Aufeinanderfolgende Einbaustellen vor der Lieferung per Flugzeug. S. auf der Vorderseite Rubrik Nummer 5
Hab Wien	22/12/2011	AR 20 24270	2945 <sup>33</sup>	2945 <sup>33</sup>		Dépose / Renewal, T30 3000H.
						CLOSED THIS LOG CARD AND OPENED A NEW LOG CARD NUMBER TWO WITH NEW FN:



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 5<sup>th</sup>, 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 5<sup>th</sup>, 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](mailto:wego.wang@faa.gov).

Sincerely,

MARTIN B  
ADLER

Digitally signed by MARTIN  
B ADLER  
Date: 2021.08.12 16:04:09  
-04'00'

(for) Tomek Rakowski  
Manager, ECO Branch

cc: Propulsion and APU AEG

# GENERAL SERVICE LETTER

SUPPORT AND SERVICE DIVISION

40220 Tarnos – France

Tel. (33) (0) 5 59 74 40 00

JFE/SC/AW

**General Service Letter no. 2858/12 – 3<sup>rd</sup> issue**

**This General Service Letter supersedes the issue dated July 6, 2018**

**Subject: All engines**

**Information on systematic spare kits delivered with modules and FCUs/HMUs**

Dear Sir or Madam,

The purpose of this Service Letter is to describe the principles used to create systematic spare kits delivered with modules and FCU/HMUs.

## 1° PRINCIPLES FOR CREATING THE KITS

Systematic spare kits cover all systematic spares for all engine configurations (i.e. all TUs) but do not include non-systematic spares.

The kits are delivered with all the documents required (compliance certificate, EASA Form 1, etc.) in a plastic bag contained in the relevant module or FCU/HMU box/container.

Systematic spare kits for modules and FCUs/HMUs are created according to the following principles:

- The kits cover all configurations of the equipment concerned. In this regard, depending on the customer's engine configuration, the kit may sometimes include more parts than needed to install the module or FCU/HMU.
- They are provided by all workshops: repair centers, maintenance centers, new production workshops.
- They are systematically supplied for modules and FCU/HMUs of the Safran Helicopter Engines POOL and on request for all other customers.
- The kits consists, for each module, of the systematic spare PNs linked to the removal/installation task of the module in the Maintenance Manual as well as to the tasks induced by the removal/installation.
- They are updated within a period of 2 months following each Maintenance Manual update.
- Any additional part shall be ordered separately by the customer.



The kits cover the following scope:

- Maintenance Manual tasks concerned:
  - All tasks coded "xx-xx-xx-900-xxx" are included.
  - All tasks coded "70-xx-xx-xxx-xxx-xxx" and "71-0x-xx-xxx-xxx" are excluded as well as their child tasks.
- Items concerned:
  - All ATA items coded "-xx-00-xx-xxx" are included.
  - All other items (Ex: 74-21-10-01-120) are excluded **apart from** those directly referenced in the FCU/HMU removal/installation task.

## 2° ACCESS TO THE LISTS OF KITS

The list of kits is available in EngineLife® Customer Portal, under "E-services", "Spare parts and tooling" menu, "Systematic Kits" link: [Spare parts and tooling \(Parts and tools\) \(safran-helicopter-engines.com\)](http://safran-helicopter-engines.com).

This list can also be obtained by applying the rules defined in this Service Letter using the IETP "Cart" function.

Please contact us if you require further information or assistance.

Yours faithfully,

J.F. ESCURET

Technical Support Department

