1. Approving Civil Aviation Authority/Country: FAA/United States	2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: **2023 / 01 / 0002 - 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: **22003479**

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	**Pump and Metering Valve Assembly, Adjusted**	**0292862600**	**1**	**774B**	**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: 2805.08 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:		14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12	
☐ Approved design data and are in a condition for safe operation. ☐ 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.: **FAA Cert No WC1R579K**
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): **David Kulmaczewski**	14e. Date (dd/mmm/yyyy): **03-Jan-2023**

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.

Log card n° / *Fiche N°*	2

LOG CARD / *FICHE MATRICULE*

MATERIAL IDENTIFICATION / *IDENTIFICATION DU MATERIEL*

DESIGNATION	**POMPE HP BP DOSEUR REGLE** *PUMP AND METERING VALVE ASSY, ADJUSTED*	**P/N** **P/N OTAN**	**0292862600** **2915145825073**	**MANUFACTURER /** *FABRICANT*	**SAFRAN HELICOPTER ENGINES**
FAMILY TYPE / *FAMILLE TYPE*	**ARRIEL 2**	**S/N**	**774B**	**MANUF. CODE /** *CODE FABRICANT*	**F0228**

WORKS CARRIED OUT / *TRAVAUX EFFECTUES*	**REMARKS / *RENSEIGNEMENTS PARTICULIERS***
Overhaul / Révisé Calendar limit reset / Restitution de la limite calendaire Under W.O. 22003479	* SB 292 73 2869 Rev. B, s/n 10511 is concerned.

According Maintenance manual / *Suivant manuel de maintenance :*	**X-292-M1-450-2 Rev. 52**	**Service Letter /** *Lettre Service :*	/

FATHER ITEM / *ITEM PÈRE*	**TBO /** *Potentiel HEURES*	**HOURS since new /** *HEURES depuis neuf*	**HOURS since overhaul /** *HEURES depuis révision*	**Remaining HOURS /** *Dispo. HEURES*	**Remaining CYCLES /** *Dispo. CYCLES*			**Remaining creep damage (Point or %) /** *Disponibilité Endofluage (Point ou%)*
	3000	**2805.08**	**0**	**3000**		**HP / *HP***	/	/
						PT / *TL*	/	
						MGB / *BTP*	/	

USE OR LIFE LIMITED PARTS OR SUB-COMPONENTS / *PIECES A VIE-LIMITE OU A LIMITE D'UTILISATION OU SOUS-COMPOSANTS*

DESIGNATION	**P/N**	**S/N**	**Total run HOURS /** *HEURES de fct. Total*	**Remaining HOURS /** *Dispo. HEURES*	**Total CYCLES carried out /** *CYCLES eff. Total*	**Remaining CYCLES /** *Dispo. CYCLES*	**Total creep damage /** *Endofluage total*
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
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LOG CARD / *FICHE MATRICULE*

MODIFICATIONS AND SERVICE BULLETIN APPLIED AT TIME OF DELIVERY / *ETAT DES MODIFICATIONS ET SERVICE BULLETINS APPLIQUES A LA LIVRAISON*

MODIF	Service Bulletin	Modif	Service Bulletin	Modif	Service Bulletin	Modif	Service Bulletin	Modif	Service Bulletin	Modif	Service Bulletin	Modif	Service Bulletin	Modif	Service Bulletin
TU25	292 73 2025	TU105	292 73 2105	/	292 73 2869 B	/	/	/	/	/	/	/	/	/	/
TU31	292 73 2031	TU133	292 73 2133	/	292 71 2853	/	/	/	/	/	/	/	/	/	/
TU32	292 73 2032	TU148	292 73 2148	/	292 73 2831	/	/	/	/	/	/	/	/	/	/
TU39	292 73 2011	TU149	292 73 2149	/	292 73 2835	/	/	/	/	/	/	/	/	/	/
TU40	292 73 2040	TU158	292 73 2158	/	/	/	/	/	/	/	/	/	/	/	/
TU42	292 73 2042	TU160	292 73 2160	/	/	/	/	/	/	/	/	/	/	/	/
TU43	292 73 2043	TU172	292 73 2172	/	/	/	/	/	/	/	/	/	/	/	/
TU45	292 73 2045	TU178	292 73 3178	/	/	/	/	/	/	/	/	/	/	/	/
TU56	292 73 2056	TU184	292 73 3184	/	/	/	/	/	/	/	/	/	/	/	/
TU62	292 73 2062	/	/	/	/	/	/	/	/	/	/	/	/	/	/
TU64	292 73 2064	/	/	/	/	/	/	/	/	/	/	/	/	/	/
TU76	292 73 2076	/	/	/	/	/	/	/	/	/	/	/	/	/	/
TU82	292 73 2082	/	/	/	/	/	/	/	/	/	/	/	/	/	/
TU83	292 73 2083	/	/	/	/	/	/	/	/	/	/	/	/	/	/
TU92	292 73 2092	/	/	/	/	/	/	/	/	/	/	/	/	/	/

AIRWORTHINESS DIRECTIVES APPLIED AT TIME OF DELIVERY / *ETAT DES CONSIGNES DE NAVIGABILITE APPLIQUEES A LA LIVRAISON*

A.D. / *N° C.N.* EASA	A.D. / *N° C.N.* FAA	A.D. / *N° C.N.* Local	A.D. / *N° C.N.* EASA	A.D. / *N° C.N.* FAA	A.D. / *N° C.N.* Local	A.D. / *N° C.N.* EASA	A.D. / *N° C.N.* FAA	A.D. / *N° C.N.* Local
2019-0180	2021-13-03 AMOC	/	/	/	/	/	/	/
/	2014-12-05 AMOC	/	/	/	/	/	/	/
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Hours and cycles realised at test bench but not count up into availability status, in accordance with cct 6100 or RTC. / *Heures et cycles realises au banc d'essai mais non pris en compte dans l'etat de disponibilite en accord avec le cct 6100 ou RTC.*															**Authorized Approval** / *Contrôle Habilité*		
HOURS *HEURES*	/				**HOURS** *HEURES*	/				**HOURS** *HEURES*	/				**Date**	**Signature**	**Stamp** / *Tampon*
CYCLES	**HP** / *HP*	/	**PT** / *TL*	/	**CYCLES**	**HP** / *HP*	/	**PT** / *TL*	/	**CYCLES**	**HP** / *HP*	/	**PT** / *TL*	/	3 Jan 2023		14

Log card n° / *Fiche N°*	2

LOG CARD / *FICHE MATRICULE*

MATERIAL IDENTIFICATION / *IDENTIFICATION DU MATERIEL*

DESIGNATION	**POMPE HP BP DOSEUR REGLE** *PUMP AND METERING VALVE ASSY, ADJUSTED*	**P/N** **P/N OTAN**	**0292862600** **2915145825073**	**MANUFACTURER /** *FABRICANT*	**SAFRAN HELICOPTER ENGINES**
FAMILY TYPE / *FAMILLE TYPE*	**ARRIEL 2**	**S/N**	**774B**	**MANUF. CODE /** *CODE FABRICANT*	**F0228**

Calendar Limit or Visit Value / *Valeur de la limite ou Visite Calendaire*	**Date for first entry into service /** *Date 1ère mise en service*	**Operation limit date /** *Date limite d'utilisation*
10 YEARS		

MODIFICATIONS, SERVICE BULLETINS & AIRWORTHINESS DIRECTIVES APPLIED OR REMOVED BY OPERATOR /
MODIFICATIONS, SERVICE BULLETINS ET CONSIGNE DE NAVIGABILITE APPLIQUES OU SUPPRIMES PAR L'UTILISATEUR

DATE	**Applied / Installed**	**Removed / Supprimé**	**A.D. / N° C.N.**			**Service Bulletin**	**Modification**	**DESCRIPTION - COMMENTS /** *DESCRIPTION - COMMENTAIRES*	**Signature - Stamp /** *Signature - Tampon*
			EASA	**FAA**	**Local**				

LIFE LIMITED OR USE LIMITED PARTS REPLACED BY OPERATOR OR LIFE LIMIT EVOLUTION /
PIECES A VIE LIMITE OU A LIMITE D'UTILISATION REMPLACEES PAR L'UTILISATEUR OU EVOLUTION DE VIE LIMITE

DATE	**Installation**	**Removal**	**DESIGNATION**	**P/N**	**S/N**	**HOURS /** *Total HEURES*	**Total CYCLES**	**Remaining HOURS /** *Dispo. HEURES*	**Remaining CYCLES /** *Dispo. CYCLES*	**Creep damage /** *Endofluage*	**Signature - Stamp /** *Signature Tampon*

LOG CARD / *FICHE MATRICULE*

MAINTENANCES - WORKS CARRIED OUT - TRANSFERS / *MAINTENANCES - TRAVAUX EFFECTUES - MOUVEMENTS*

DATE	Installation	Removal / *Dépose*	Engine Counter Since New / *Moteur compteur depuis neuf*					Equipment Counter Since Overhaul / *Equipement compteur depuis ou révision*							Observations - Works carried out / *Observations - Travaux effectués* & Signature - Stamp / *Signature - Tampon*
			Variant-Version / *Variant-version*	S/N	HOURS / *HEURES*	CYCLES		HOURS / *HEURES*	CYCLES			Creep damage / *Endofluage*	O.E.I		
						HP / *HP*	PT / *TL*		HP / *HP*	PT / *TL*	MGB / *BTP*		OEI 1	OEI 2	
3 Jan 2023			/	/	/	/	/	0	/	/	/	/	/	/	SAFRAN HE Delivered

REMARKS / *RENSEIGNEMENTS PARTICULIERS*

New statut of availabilities following replacement of usage limited parts and life limited parts: *Nouvelle disponibilité suite à remplacement de pièces à limite d'utilisation ou de pièces à vie-limite :* - **HOURS** / *HEURES* : - **CYCLES** : - **Creep damage** / *Endofluage* :		**Oil Type** / *Type d'huile*

*Refer to Guide 008175 (LI015) / *Voir Guide 008175 (LI015)

Contrôle d'execution des modifications
Checking of modification performance

Numéro *No.*	Nature de la modification *Type of modification*	Unité ou société d'exécution *Performing unit or contractor*	Date d'exécution et tampon contrôle *Performing date inspection stamp*

Potentiel calendaire disponible *Time available for the calendar unit*	Date 1ère mise en service *Date for first entry into service*	Date limite d'utilisation *Operation limit date*
	12/2013	12/2023

FICHE MATRICULE
LOG CARD

Fiche N° / *Log card n°* 1

Identification du matériel *Material identification*

Dénomination / *Name*: **POMPE HP-BP DOSEUR REGLEE** *(ADJUSTED PUMP AND METERING VALVE ASSY)*

Nomenclature / *Nomenclature*: 2915145780918

Référence fabricant / *Part number*: **0292861840**

Code fabricant / *Manuf code*: **F0228**

Numéro de série / *Serial number*: **774B**

Amendements / *Amendments*:

Marque / *Trade mark*: **TURBOMECA**

Type / *Type*: **C, CPM**

Identification du support ou du sous-support de rattachement
Related assembly or sub assembly identification

Code / *Code*:

Dénomination / *Name*: **ARRIEL 2**

Marché ou commande *Contract or order*

Référence / *Reference*:

Date / *Date*:

Organisme émetteur / *Issuing agency*:

N° du lot / *Kit n°*:

Fournisseur / *Contractor*:

Adresse / *Address*:

Garantie *Guarantee*

Matériel *Material*	Date de livraison *Date of delivery*	Durée garantie de stockage *Storage guarantee period*	Date mise en service *Date of putting into service*	Durée garantie de fonctionnement *Operation guarantee period*	
Neuf *New*					

Renseignements particuliers *Special information*
(Document réception usine, dérogations, précaution à la mise en service, etc.)
(Acceptance document, concessions, precaution before putting into service...)

Limite de fonctionnement / *Operating limit*: **3000 HRS**

ENR0441 C

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: Support *Support*	Partiel *Partial*	Total *Total*	Motif du mouvement (code, symptômes) - Travaux effectués - Pièces changées *Reason for transfer (code and symptoms) - Work carried out - Replaced parts*
TURBOMECA	**09/2015**	/	/	/	**467**	**INSPECTED / TESTED - SB 292 73 2822 (EASA AD N°2013-0170/FAA AD N°2014-12-05) & SB 292 783 2831** *Applied*
HELI UNION	06/12/2015	ARRIEL2C/24515	3081:31		467	INSTALLED HEB 112
SAFRAN HEB	22/02/2015	ARRIEL2C/24515	3481.7	400.18	867.18	REMOVED
SAFRAN HEB	26/JAN/2018	——	3481.7	400.18	867.18	ALL THE PERIODIC INSPECTION APPLIED DURING THE INTERVENTION OP 277333 -- SB 292.73.7222 HEB
SAFRAN HEB	MAR/2018	ARRIEL2C #24515	4131.70	—	861.18	REPOSE / INSTALLED — IAW OP 177333 HEB 136
HBG FR145.0294	27/04/19	ARRIEL2C 24515	3790:17	308:35	1175:45	Application SB 292.73.2869, monocontacteur contrôlé conforme
HBG FR145.0294	20/08/19	ARRIEL2C-24515	3996:17	204:00	1379:45	Application CN 2017-0130R1 / MSB 292.73.2822 G selon BLT PVN 015-19
HBG FR145.0294	09/09/22	ARRIEL2C-24515	5419:37	1423:20	2805:05	Dépose du ARRIEL2C SN 24515 selon BLT PVN 012-21 HBG 812

3 JAN 2023