

ARRIEL S/N ZZ191

Page E

Mentionner le fonctionnement du moteur si possible pour chaque journée d'utilisation.  
Signaler toute particularité, anomalie de fonctionnement et travail effectué sur le moteur.  
Pour chaque intervention sur module, ou équipement muni d'une fiche matricule, reporter les renseignements utiles sur cette fiche.

S'il y a changement d'équipement, enregistrer le nouvel équipement monté en Section C.

S'il y a changement de module, enregistrer le nouveau module monté en Section B, et établir un nouvel état de disponibilité en Section D. Repartir alors "à zéro" dans la colonne "Total depuis état de disponibilité

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[illegible]

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| FONCTIONNEMENT MOTEUR / ENGINE RUN HOUR |                     |                                  |                     |                                      |          |           |                                                          |        |           |                |  | Observations - Travaux effectués - Signature<br>Observations - Works carried out - Signature                                                                                                                                             |
|-----------------------------------------|---------------------|----------------------------------|---------------------|--------------------------------------|----------|-----------|----------------------------------------------------------|--------|-----------|----------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                    | Journalier<br>Daily |                                  |                     | Total depuis neuf<br>Total since new |          |           | Total depuis état de dispo.<br>Total since state of life |        |           | O.<br>E.<br>I. |  |                                                                                                                                                                                                                                          |
|                                         | H                   | Boîtier afficheur<br>Display box |                     | H                                    | Cycles   |           | H                                                        | Cycles |           |                |  |                                                                                                                                                                                                                                          |
|                                         |                     | Cycles<br>Gen/Gas                | Cycles<br>T.L. F.T. |                                      | Gen      | T.L. F.T. |                                                          | Gen    | T.L. F.T. |                |  |                                                                                                                                                                                                                                          |
|                                         |                     |                                  |                     |                                      |          |           |                                                          |        |           |                |  | 3 of 3                                                                                                                                                                                                                                   |
|                                         |                     |                                  |                     |                                      |          |           |                                                          |        |           |                |  | VIBRATION ANALYSIS 14 mm/sec. DETAILS ON FILE UNDER AH# w/o # 6773.                                                                                                                                                                      |
| 6-13-12                                 |                     |                                  |                     | 5362.4                               | 11171.33 | 4759.13   |                                                          |        |           |                |  | Installed Engine in A/C N857HW<br>SN 3188 For - Ground Run, leak test,<br>oil pressure check, VIB check, Power Check<br>NG: 93.5% T4: 737°C TRQ: 64.5%<br>NF: 380 RPM ZP: 610 FT CAT: +84°F<br>T4 MARGIN: -47°C GOOD TRQ MAX: +0.6% Good |
| 6-28-12                                 |                     |                                  |                     | 5393.0                               | 11213.80 | 4774.45   |                                                          |        |           |                |  | Ch/moltm5 chipply inspection found OK. prod-<br>APP                                                                                                                                                                                      |

ARRIEL S/N 22191

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[illegible]

SIGNATURE:

NICK KING A&amp;P

[illegible]

TYPE D'AERONEF ET N° / AIRCRAFT TYPE AND S/N

UTILISATEUR / OPERATOR

IMMATRICULATION / REGISTRATION

POSITION MOTEUR / ENGINE POSITION

**Lors de chaque changement d'utilisateur, d'aéronef ou de position moteur, passer à la page suivante**  
*If the engine is transferred to another operator, aircraft, or position, a new page of the log book shall be started*

**Moteur / Engine**  
**ARRIEL 2 B N°**

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| Date       | FONCTIONNEMENT / TIME RUN  |        |                                             |              |                                                                |        |                     |              | Observations - Travaux effectués - Signature<br>Observations - Works carried out - Signature |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|----------------------------|--------|---------------------------------------------|--------------|----------------------------------------------------------------|--------|---------------------|--------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Journalier<br><i>Daily</i> |        | Total depuis neuf<br><i>Total since new</i> |              | Total depuis état de disp.<br><i>Total since stat. of life</i> |        | Calculateur<br>EECU |              |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            | H                          | Cycles | H                                           | Cycles       | H                                                              | Cycles | H                   | Cycles       |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|            |                            | GEN.   |                                             | T.L.<br>P.T. |                                                                | GEN.   |                     | T.L.<br>P.T. |                                                                                              | GEN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10/10/2012 |                            |        | 5492.8                                      | 11490.95     | 4879.77                                                        |        |                     |              |                                                                                              | N353HW S/N 3401 ENGINE S/N 22191<br>TOTAL TIME 5896.6 ENG. TOTAL TIME 5492.8<br>HOBBS 5896.6 NG 11490.95 NTL 4879.77<br>LANDING 21921 DATE: 10/10/2012<br><br>C/W 100 HR ENGINE INSPECTION IN ACCORDANCE WITH TURBOMECA MAINTENANCE MANUAL. C/W SB 292-72-2815, SB 292-72-2823. GROUND RUN AND CHECK FOR LEAKS NONE NOTED. GOOD. ALL WORK ACCOMPLISHED AS PER TURBOMECA MAINTENANCE MANUAL. POWER CHECK AS FOLLOWS: NG: 94.0% T4: 736°C TRQ: 77.0% NF: 393 RPM ZP: 1040 FT OAT: +63°F T4 MAR: -48°C GOOD TRQ MAR: +2.8% GOOD -----END-----<br><br>I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.<br><br>SIGNATURE: [Signature] 10/10/12<br>GLEN K. WILSON JR. A&P |

E48

Moteur / Engine  
ARRIEL 2 B N°

## UTILISATION, ENTRETIEN, REVISION / OPERATION, MAINTENANCE, OVERHAUL

| Date     | FONCTIONNEMENT / TIME RUN |        |              |                                      |          |              |                                                         |        |              |                     | Observations - Travaux effectués - Signature<br>Observations - Works carried out - Signature |        |              |                                                                                                                                                                                                                                                |
|----------|---------------------------|--------|--------------|--------------------------------------|----------|--------------|---------------------------------------------------------|--------|--------------|---------------------|----------------------------------------------------------------------------------------------|--------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Journalier<br>Daily       |        |              | Total depuis neuf<br>Total since new |          |              | Total depuis état de disp.<br>Total since stat. of life |        |              | Calculateur<br>EECU |                                                                                              |        |              |                                                                                                                                                                                                                                                |
|          | H                         | Cycles |              | H                                    | Cycles   |              | H                                                       | Cycles |              | H                   |                                                                                              | Cycles |              |                                                                                                                                                                                                                                                |
|          |                           | GEN.   | T.L.<br>P.T. |                                      | GEN.     | T.L.<br>P.T. |                                                         | GEN.   | T.L.<br>P.T. |                     |                                                                                              | GEN.   | T.L.<br>P.T. | GEN.                                                                                                                                                                                                                                           |
| 11-1-12  |                           |        |              | 5523.6                               | 11561.63 | 4909.94      |                                                         |        |              |                     |                                                                                              |        |              | C/W mol and m05 chip blue check. found ok<br>[Signature]                                                                                                                                                                                       |
| 11-8-12  |                           |        |              | 5538.5                               | 11593.81 | 4923.84      |                                                         |        |              |                     |                                                                                              |        |              | C/W mol and m05 chip blue check. Found ok<br>[Signature]                                                                                                                                                                                       |
| 12/14/12 |                           |        |              | 5587.2                               | 11700.85 | 4971.89      |                                                         |        |              |                     |                                                                                              |        |              |                                                                                                                                                                                                                                                |
|          |                           |        |              |                                      |          |              |                                                         |        |              |                     |                                                                                              |        |              | N353HW S/N 3401 ENGINE S/N 22191<br>TOTAL TIME 5991.0 ENG. TOTAL TIME 5587.2<br>HOBBS 5991.0 NG 11700.85 NTL 4971.89<br>LANDING 22276 DATE: 12/14/2012                                                                                         |
|          |                           |        |              |                                      |          |              |                                                         |        |              |                     |                                                                                              |        |              | C/W 100 HR ENGINE INSPECTION IN ACCORDANCE WITH TURBOMECA MAINTENANCE MANUAL. C/W SB 292-72-2815, SB 292-72-2823. GROUND RUN AND CHECK FOR LEAKS NONE NOTED. GOOD. ALL WORK ACCOMPLISHED AS PER TURBOMECA MAINTENANCE MANUAL.<br>-----END----- |
|          |                           |        |              |                                      |          |              |                                                         |        |              |                     |                                                                                              |        |              | I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.                                                                                                             |
|          |                           |        |              |                                      |          |              |                                                         |        |              |                     |                                                                                              |        |              | SIGNATURE: [Signature] 12/14/12<br>GLEN K. WILSON JR. A&P [Signature]                                                                                                                                                                          |

TYPE D'AERONEF ET N° / AIRCRAFT TYPE AND SERIAL No \_\_\_\_\_

UTILISATEUR / OPERATOR \_\_\_\_\_

MMATRICULATION / REGISTRATION \_\_\_\_\_

POSITION MOTEUR / ENGINE POSITION \_\_\_\_\_

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Moteur / Engine  
ARRIEL 2 B N°

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|         | H                         | Cycles |              | H                                    | Cycles   |              | H                                                       | Cycles |              | H                   | Cycles |              |                                                                                                                                                                                                                                                 |
|         |                           | GEN.   | T.L.<br>P.T. |                                      | GEN.     | T.L.<br>P.T. |                                                         | GEN.   | T.L.<br>P.T. |                     | GEN.   | T.L.<br>P.T. |                                                                                                                                                                                                                                                 |
| 2-2-13  |                           |        |              | 5617.0                               | 11751.16 | 4996.72      |                                                         |        |              |                     |        |              | Chromalox 5 chip plug inspection found OK<br>-end- [REDACTED] APP [REDACTED]                                                                                                                                                                    |
| 3-18-13 |                           |        |              | 5683.0                               | 11866.56 | 5052.83      |                                                         |        |              |                     |        |              |                                                                                                                                                                                                                                                 |
|         |                           |        |              |                                      |          |              |                                                         |        |              |                     |        |              | N353HW S/N 3401 ENGINE S/N 22191<br>TOTAL TIME 6086.8 ENG. TOTAL TIME 5683.0<br>HOBBS 6086.8 NG 11866.56 NTL 5052.83<br>LANDING 22619 DATE: 03/18/2013                                                                                          |
|         |                           |        |              |                                      |          |              |                                                         |        |              |                     |        |              | C/W 50, 100, 300 HR ENGINE INSPECTION IN ACCORDANCE WITH TURBOMECA<br>MAINTENANCE MANUAL. C/W SB 292-72-2815, SB 292-72-2823. GROUND RUN AND CHECK<br>FOR LEAKS NONE NOTED. GOOD. ALL WORK ACCOMPLISHED AS PER TURBOMECA<br>MAINTENANCE MANUAL. |
|         |                           |        |              |                                      |          |              |                                                         |        |              |                     |        |              | -----END-----                                                                                                                                                                                                                                   |
|         |                           |        |              |                                      |          |              |                                                         |        |              |                     |        |              | I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR<br>INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.                                                                                                           |
|         |                           |        |              |                                      |          |              |                                                         |        |              |                     |        |              | SIGNATURE: [REDACTED]<br>NICK KING A [REDACTED]                                                                                                                                                                                                 |

E48

Moteur / Engine  
ARRIEL 2 B N°

## UTILISATION, ENTRETIEN, REVISION / OPERATION, MAINTENANCE, OVERHAUL

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|          | H                         | Cycles |              | H                                    | Cycles       |              | H                                                       | Cycles |              | H                   |                                                                                              | Cycles |                                                                                                                                                           |
|          |                           | GEN.   | T.L.<br>P.T. |                                      | GEN.         | T.L.<br>P.T. |                                                         | GEN.   | T.L.<br>P.T. |                     |                                                                                              | GEN.   | T.L.<br>P.T.                                                                                                                                              |
| 4-9-2013 |                           |        |              | 5714                                 | 11937<br>84  | 5084<br>28   |                                                         |        |              |                     |                                                                                              |        | CPW 15 HR MDI + MOS Inspection & found ok<br>END- [REDACTED] AJP [REDACTED]                                                                               |
| 5-9-2013 |                           |        |              | 5754.7                               | 12018.<br>86 | 5118.<br>72  |                                                         |        |              |                     |                                                                                              |        | CPW 15 HR MDI + MOS chip inspection and found ok.<br>5/9/13 [REDACTED] AJP [REDACTED]                                                                     |
| 5-17-13  |                           |        |              | 5768.<br>2                           | 12046.<br>09 | 5130.<br>53  |                                                         |        |              |                     |                                                                                              |        | CPW 15 HR chip inspection found ok at this time.<br>[REDACTED] AJP [REDACTED]                                                                             |
| 6-1-13   |                           |        |              | 5798.<br>6                           | 12098.<br>22 | 5151.<br>73  |                                                         |        |              |                     |                                                                                              |        | CPW 15 HR chip inspection. Found ok at this time.<br>[REDACTED] AJP [REDACTED]                                                                            |
| 6/9/13   |                           |        |              | 5810.8                               | 12126.<br>41 | 5162.<br>94  |                                                         |        |              |                     |                                                                                              |        | REMOVED H.I.U. pln 0292860750 slw 673B AND INSTALLED<br>H.M.U. pln 0292861820 slw 378B For Troubleshooting<br>slw AD 2007-10-07 [REDACTED] AJP [REDACTED] |
| 6-11-13  |                           |        |              | 5811.4                               | 12127.<br>91 | 5163.<br>50  |                                                         |        |              |                     |                                                                                              |        | CPW MDI + MOS chip plug inspection found ok-end-<br>[REDACTED] AJP [REDACTED]                                                                             |

TYPE D'AERONEF ET N° / AIRCRAFT TYPE AND SERIAL No \_\_\_\_\_

UTILISATEUR / OPERATOR \_\_\_\_\_

IMMATRICULATION / REGISTRATION \_\_\_\_\_

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Moteur / Engine  
ARRIEL 2 B N°

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|---------|---------------------------|--------|--------------|--------------------------------------|--------------|--------------|---------------------------------------------------------|--------|--------------|---------------------|--------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Journalier<br>Daily       |        |              | Total depuis neuf<br>Total since new |              |              | Total depuis état de disp.<br>Total since stat. of life |        |              | Calculateur<br>EECU |        |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
|         | H                         | Cycles |              | H                                    | Cycles       |              | H                                                       | Cycles |              | H                   | Cycles |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                   |
|         |                           | GEN.   | T.L.<br>P.T. |                                      | GEN.         | T.L.<br>P.T. |                                                         | GEN.   | T.L.<br>P.T. |                     | GEN.   |                                                                                              | T.L.<br>P.T.                                                                                                                                                                                                                                                                                                                                                                      |
| 6-23-13 |                           |        |              | 5825.<br>4                           | 12155<br>24  | 5173.<br>46  |                                                         |        |              |                     |        |                                                                                              | CW long oil sample [redacted] - [redacted]                                                                                                                                                                                                                                                                                                                                        |
| 7-6-13  |                           |        |              | 5855.<br>2                           | 12212.<br>87 | 5193.<br>48  |                                                         |        |              |                     |        |                                                                                              | CW 15HR chip check. Found OK at this time. [redacted] A+P [redacted]                                                                                                                                                                                                                                                                                                              |
| 7-15-13 |                           |        |              | 5870.5                               | 12244.<br>59 | 5204.<br>77  |                                                         |        |              |                     |        |                                                                                              | Removed HMV (serviceable) p/n 0292861820 s/n 3853<br>END [redacted] A\$ [redacted]                                                                                                                                                                                                                                                                                                |
| 7-17-13 |                           |        |              | 5870.5                               | 12244.<br>59 | 5204.<br>77  |                                                         |        |              |                     |        |                                                                                              | 100 HR inspection c/w this date. c/w SB 292-72-2815,<br>292-72-2823, 292-73-2812. c/w AD 2006-21-10.<br>c/w M01 + M05 chip inspection and found OK. c/w electrical<br>chip inspection & test and found OK. Installed rental<br>HMV p/n 0292861980 s/n 9253. Ground run & leak<br>check completed & found OK. [redacted] 7/17/13<br>END [redacted] A\$ [redacted] 5870.5<br>End 11 |
| 7-26-13 |                           |        |              | 5881.9                               | 12262.<br>83 | 5210.<br>88  |                                                         |        |              |                     |        |                                                                                              | c/w M01 and M05 chip check. Found OK at this<br>time. [redacted] A+ [redacted]                                                                                                                                                                                                                                                                                                    |

Moteur / Engine  
ARRIEL 2 B N°

UTILISATEUR / OPERATOR \_\_\_\_\_

POSITION MOTEUR / ENGINE POSITION \_\_\_\_\_

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## TBO SPECIFIC /CALENDAR LIMIT EXTENSION 1301655/BG/2013

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |        |                          |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------------------------|-------|
| <b>SUBJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |        |                          |       |
| REQUEST FOR 350 HOUR TBO LIMIT EXTENSION ON ARRIEL 2B MODULE 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |        |                          |       |
| <b>CUSTOMER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |        |                          |       |
| Company : Hospital Wing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |        | Request Date : 15-Oct-13 |       |
| <b>AIRCRAFT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |        |                          |       |
| Registration : N353HW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |        | Type : AS350B3           |       |
| <b>ENGINE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |        |                          |       |
| Version / Variant : ARRIEL 2B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |        | Engine S/N : 22191       |       |
| TSN : 5977.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TSO : 2657.9 |        | TSR : 614.7              |       |
| <b>GENERAL INFORMATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |        |                          |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S/N          | TSN    | TSO                      | TSR   |
| Module 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00501        | 5977.1 | 2657.9                   | N/A   |
| Module 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00504        | 5977.1 | 2657.9                   | N/A   |
| Module 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2052         | 2154.8 | 2154.8                   | 614.7 |
| Module 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 01394        | 3476.8 | 3476.8                   | 614.7 |
| Module 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00507        | 5977.1 | 2657.9                   | N/A   |
| Component : HMU<br>P/N : 0292861980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 925B         | 1462.5 | 1462.5                   | N/A   |
| <b>REASON FOR REQUEST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |        |                          |       |
| Customer is requesting TBO/Calendar limit extension due to the following reasons :<br><b>To extend the module 4 to align with airframe maintenance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |        |                          |       |
| <b>Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |        |                          |       |
| <p>Comments : TBO extensions are given for up to 10% of TBO.</p> <p>This extension is applicable for engine 22191 with installed M01 (00501) M02 (00504) M03 (2052) M04 (01394) M05 (00507)</p> <p><b>M04 is not effected by SB A292722833 or SB A292722842, This extension does not extend any Life Limit for Mo4 components – Life Limits remain fully applicable</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |        |                          |       |
| <b>ANALYSIS CONCLUSION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |        |                          |       |
| <p>Using the information provided to Turbomeca by Hospital Wing and the subsequent analysis performed by Turbomeca, Turbomeca considers that the reported information does not prevent <b>Module 4 S/No 01394</b> from flying with a <b>TBO limit extension of 350 hours for revised TBO of 3850 hours</b>. This extension, issued in accordance with EASA Part 21, Subpart J Design Organisation Approval EASA.21J.070, is subject to the following preliminary checks and the specific preventive maintenance program.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |        |                          |       |
| <b>PRELIMINARY CHECKS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |        |                          |       |
| <p>The following checks must be performed on this engine having an extension (When ticked) :</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Check for abnormal noise on crank engine cold and during the engine rundown.</li> <li><input checked="" type="checkbox"/> Engine vibration check.</li> <li><input type="checkbox"/> Engine performance check (especially T4 trend).</li> <li><input type="checkbox"/> Compressor erosion.</li> <li><input type="checkbox"/> Rear bearing permeability (if applicable).</li> <li><input checked="" type="checkbox"/> SOAP analysis.</li> <li><input type="checkbox"/> Engine rundown time.</li> <li><input checked="" type="checkbox"/> Module 04 power turbine installed Inspection / check TASK 72-00-54-200-801-A01</li> </ul> <p>The checks results must be noted down in section "E" of the logbook of the concerned engine. Please return the check results to the extension writer. Any anomaly resulting from these checks cancels the extension.</p> |              |        |                          |       |



## TBO SPECIFIC/CALENDAR LIMIT EXTENSION 1301655/BG/2013 (Cont.)

### SPECIFIC PREVENTIVE MAINTENANCE PROGRAM

The following Checks/Tasks must be performed on this engine having an extension (When ticked) :

- ☐ Check for abnormal noise on crank engine cold and during the engine rundown after the last flight of the day.
- ☐ Engine vibration check every            hours.
- ☐ Engine performance check every            hours (especially T4 trend).
- ☐ Compressor erosion every            hours.
- ☐ Rear bearing permeability (if applicable).
- ☒ SOAP analysis every 50 hours.
- ☐ Engine rundown time / daily.
- ☐ Check for fuel dilution in the oil every            hours.
- ☐ Characteristic check of the fuel control system every            hours.
- ☐ Inspection of magnetic plugs after the last flight of the day.
- ☐ Daily check for leaks every            hours.
- ☒ Comply with the applicable Arriel 2 Maintenance Manual scheduled maintenance program.

Any anomaly found during this preventive maintenance program or any event occurring during the time of the extension must be reported to Turbomeca. It temporarily stops the extension. The extension must be re-confirmed by a Turbomeca approval.

Evidently the instructions given in Turbomeca approved documentation are still applicable throughout the duration of this extension (including but not limited to Maintenance manual, service Bulletins, service Letters...).

### EXTENSION CANCELLATION CONDITIONS

This extension will immediately be cancelled for any of the following reasons :

- return of the equipment(s) to a Repair Centre;
- if this extension given by Turbomeca and the checks results associated are not noted down :
  - in section "E" of the logbook of the concerned engine.
  - AND on the log card of the concerned component.
- the limit life or the TBO of a component has been exceeded during the period of this extension (refer to the Chapter 5 of the Maintenance Manual).
- Any event, anomaly or part removal, must be reported to Turbomeca. It temporarily stops the extension. The extension must be re-confirmed by a Turbomeca approval.
- Transfer of ownership or operator prior to or during the extension.
- change of supporting airframe.

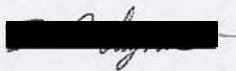
This extension will immediately be cancelled for any of the following reasons (When ticked):

- ☐ Maintenance Manual update.
- ☐ This TBO extension is cancelled if an activity report is not transmitted to Turbomeca every 6 months or 25 hours.
- ☐ Change of type of operation or activity area prior to or during the extension.
- ☒ Change of engine configuration (example : modular changes).
- ☐ Change of maintenance procedure or maintenance centre.
- ☐ End of contract activity.
- ☐ SB classified 2.2 to 2.5 is (are) not embodied within 2 years.

### TECHNICAL SUPPORT ENGINEERING VALIDATION

Date : 15-Oct-13

Validated by: Brad Guzman



### TECHNICAL SUPPORT ENGINEERING MANAGER APPROVAL

Date : Oct 15<sup>th</sup> 2013

Approved by Lionel Duprat





Moteur / Engine  
ARRIEL 2 B N°

Mentionner le fonctionnement du moteur si possible pour chaque journée d'utilisation.  
Signaler toute particularité, anomalie de fonctionnement et travail effectué sur le moteur.  
Pour chaque intervention sur module, ou équipement muni d'une fiche matricule, reporter les renseignements utiles sur cette fiche.  
S'il y a changement d'équipement, enregistrer le nouvel équipement monté en Section C.  
S'il y a changement de module, enregistrer le nouveau module monté en section B, et établir un nouvel état de disponibilité en Section D. Repartir alors "à zéro" dans la colonne "Total depuis état de disponibilité".

Record the time run by the engine on one day. Point out any peculiarities, anomalies or works carried out on the engine.

For each intervention on a module or an accessory provided with a log card, repeat all useful information on the relevant log cards.

In the case of an accessory change, record the new accessory fitted in Section C;

In the case of a module change, record the new module in Section B and set up a new statement of life in Section D. Accordingly, put a "zero" under heading "Total since statement of life".

FONCTIONNEMENT / TIME RUN

Date

Journalier  
Daily

Total depuis neuf  
Total since new

Total depuis état de disp.  
Total since stat. of life

Calculateur  
EECU

Observations - Travaux effectués - Signature  
Observations - Works carried out - Signature

H

Cycles

H

Cycles

H

Cycles

H

Cycles

GEN.  
P.T.

T.L.  
P.T.

GEN.  
P.T.

T.L.  
P.T.

GEN.  
P.T.

T.L.  
P.T.

GEN.  
P.T.

T.L.  
P.T.

10/21/13

3998.6

12496.10

5293.50

Complied with requirements associated with TBO  
Extension 1301655/BC/2013. Complied with engine  
oil check 6.5mm/sec. oil sample and Module 4  
inspection saw Task 72-00-54-200-801-101.

AS

10/10/10

| Time | Temp | Wind | Clouds | Pressure |
|------|------|------|--------|----------|
| 0800 | 15.0 | 10   | 100    | 1013.0   |
| 0900 | 15.5 | 10   | 100    | 1013.0   |
| 1000 | 16.0 | 10   | 100    | 1013.0   |
| 1100 | 16.5 | 10   | 100    | 1013.0   |
| 1200 | 17.0 | 10   | 100    | 1013.0   |
| 1300 | 17.5 | 10   | 100    | 1013.0   |
| 1400 | 18.0 | 10   | 100    | 1013.0   |
| 1500 | 18.5 | 10   | 100    | 1013.0   |
| 1600 | 19.0 | 10   | 100    | 1013.0   |
| 1700 | 19.5 | 10   | 100    | 1013.0   |
| 1800 | 20.0 | 10   | 100    | 1013.0   |
| 1900 | 20.5 | 10   | 100    | 1013.0   |
| 2000 | 21.0 | 10   | 100    | 1013.0   |
| 2100 | 21.5 | 10   | 100    | 1013.0   |
| 2200 | 22.0 | 10   | 100    | 1013.0   |
| 2300 | 22.5 | 10   | 100    | 1013.0   |
| 0000 | 23.0 | 10   | 100    | 1013.0   |
| 0100 | 23.5 | 10   | 100    | 1013.0   |
| 0200 | 24.0 | 10   | 100    | 1013.0   |
| 0300 | 24.5 | 10   | 100    | 1013.0   |
| 0400 | 25.0 | 10   | 100    | 1013.0   |
| 0500 | 25.5 | 10   | 100    | 1013.0   |
| 0600 | 26.0 | 10   | 100    | 1013.0   |
| 0700 | 26.5 | 10   | 100    | 1013.0   |

Station: 1013.0  
Observer: J. Smith

The weather was very good today. The temperature was in the 20s and the wind was light. The clouds were few and far between. The pressure was steady at 1013.0.

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