

1. Approving Civil Aviation Authority/Country: **FAA/United States**

2. **AUTHORIZED RELEASE CERTIFICATE**
 FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: **619381**

4. Organization Name and Address: **Liebherr Aerospace Saline, Inc.**
1465 Woodland Drive - Saline, MI 48176
U.S.A.

5. Work Order/Invoice Number: **L3RR193H**

6. Invoice Number: **619381**

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Ser. Number:	11. Status/Work:
1	HEAT EXCHANGER - MAIN	754D0000-01	1	81212-60948	OVERHAUL'D

12. Remarks:

Approved Data : CMM 21-54-14 10/1/2016 Rev 2 According to SB 754-21-02 Rev 1 6/2/2016

Investigation Report N° : 619381

Modification : from 754C0000-01 Amdt -
 to 754D0000-01 Amdt -

Modification Status : Amdt -

Dual Release: 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 aircraft component is considered ready for release to service under EASA Part-145 Approval Number EASA.145.5439.

Comments : Return to service: Work specified accomplished (AWI/CFR Part 43.13(a)(b) and/or (c)) C 43.18. Local fabricated parts were used

RECORE

Limited life parts must be accompanied by maintenance history including total time / total cycle time since new.

13a. Certifies the items identified above were manufactured in conformity to:

Approved design data and those in a condition for safe operation.

Non-approved design data specified in Block 12.

14a. 14 CFR 439 Return to Service

Other regulation specified in Block 12

Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature: *[Signature]*

13c. Date (dd/mm/yyyy): *[Date]*

13d. Name (Typed or Printed): **RICHARD T. HUNTER**

14b. Approval/Certificate No.: **L3RR193H**

14c. Date (dd/mm/yyyy): **25 JUL 2019**

13e. Date (dd/mm/yyyy):

14d. Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

14f. Name (Typed or Printed):

13f. Name (Typed or Printed):

13g. Date (dd/mm/yyyy):

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

While 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) 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.

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

1. 国家 Country 2. 中国民用航空总局 CAAC 符合性 Conformity 适航性 Airworthiness
 批准放行证书 / 适航批准标签
 AUTHORIZED RELEASE CERTIFICATE / AIRWORTHINESS
 APPROVAL TAG
 2019 4053
 3. 证书编号 Certificate Ref. No.

4. 单位 Organization
 Liebherr Aerospace Saline, Inc.
 1465 Woodland Drive - Saline, MI 48176
 U.S.A.
 5. 工厂单/合同/工单号 Wo. Order Contr. # / Invoice
 R201900223

6. 序号 Item	7. 内容 Description	8. 件号 Part No.	9. 适用性 Eligibility *	10. 数量 Qty.	11. 序列号/批号 Serial / Batch No.	12. 产品状态 Status / Work
1	HEAT EXCHANGER - MAIN	754D0000-01 and	NOT KNOW	1	81212-60948	OVERHAULED

3. 备注 Remarks
 Approved Data : SB 754-21-02 Rev 1 6/22/2016
 CMM 21-54-14 10/1/2016 Rev 2
 Investigation Report 619381
 Remarks :
 RECORE
 Avia Technique Ltd
 Unit 1 Fishponds Estate
 Fishponds Road
 Wokingham, Berkshire RG41 2QJ
 Fed Ex: 199051300
 FOREIGN
 United Kingdom

4. 新产品 New Parts
 兹声明上述产品除第 13 页的其它规定以外, 已按照上述国家适航条例和进口制造/检查, 并且该产品(出口产品)符合经批准的图号设计资料和进口国提出的专用要求。
 Certifies that the part(s) identified above, except as otherwise specified in block 13 was(were) manufactured / inspected in accordance with the airworthiness regulations of the stated country and / or in the case of parts to be exported, with the approved design data and with the notified special requirements of the importing country.

15. 使用过的产品 Used Parts
 兹声明上述产品除第 13 页的其它规定外, 已按照上述国家适航条例和进口国通知的特殊要求进行了工作, 该产品处于安全可用状态可以批准放行使用。
 Certifies that the work specified above except as otherwise specified in block 13 was carried out in accordance with the airworthiness regulations of the stated country and the notified special requirements of the importing country and in respect to that work, the part(s) is(are) in condition for safe operation and considered ready for release to service. (over)

6. 批准人签名 Signature
 18. 批准日期 Date
 25 JUL 2019
 7. 批准人姓名(打印) Name (Printed)
 RICHARD T. HUNTER
 19. 中国民航总局授权 Issued by or on behalf of the CAAC
 R00100650

批准放行证书/适航批准标签

AUTHORIZED RELEASE CERTIFICATE / AIRWORTHINESS APPROVAL TAG

使用者 / 安装者 职责

USER / INSTALLER RESPONSABILITIES

- (1) 必须明确：本文件并不批准零件/组件/部件可以装到有关产品上
- (2) 当使用者/安装者使用的是所在国适航当局的条例，而不是本表第1项中所指国家适航当局的条例时，使用者/安装者必须保证所在国的适航当局能接受所指国家适航当局批准出口的零件/组件/部件。
- (3) 表中第14项、第15项的陈述，并不说日本是安装批准。在所有情况下，航空器使用前，航空器使用者/安装者应把按本国适航条例颁发的安装批准输入维修记录中。
- (1) It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part, component/assembly.
- (2) Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different from the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/user Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.
- (3) Statements 14 and 15 do not constitute installation certification. In all cases the 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.



中国民用航空局飞行标准司
Flight Standards Department
Civil Aviation Administration of China

中国北京东西大街155号
邮政编码: 100710

155 Dongsi Street, West
Beijing, P.R. China, 100710

To: Liebherr Aerospace Saline, Inc.
Address: 1465 Woodland Drive Saline Michigan 48176 USA
Tel: 734-944-6389
Fax: 734-429-2294
Date: Jul. 14, 19
Doc. No. CA-20190302

Subject: Notification of CAAC Special Approval

Dear Sir or Madam,

Based on CCAR145 regulation, audit team suggestion and your application for renewal approval from CAAC, the purpose of this letter is to formally inform you that CAAC agree your company continuing to provide maintenance work for Chinese customer with your present CAAC Maintenance Organization Certificate (number F00100650) which should be expired on June 30, 2019. This temporary approval is valid until you have received any other formal approval issued by CAAC or before the day September 30, 2019, which comes earlier. Your company may release Component after the maintenance work finished during this period by this Special Approval, and the working scope is limited to the Rating specified on the MOC and latest Maintenance Capability List approved by CAAC.

The copy of this letter shall be attached with the releasing document.

Yours Sincerely,

LI Heping
Director
Continuous Airworthiness & Maintenance Division

Liebherr Aerospace Saline, Inc.
1465 Woodland Drive
Saline, MI 48176
U.S.A

Avia Technique Ltd
Unit 1 Fishponds Estate
Fishponds Road
Wokingham, Berkshire RG41 2QJ
United Kingdom
FOREIGN
United Kingdom

Your Contact : Name : Mitchell Morton
Tel : (734) 944-6331
Fax : (734) 429-5357
E-mail : mitchell.morton@liebherr.com

Attn :
Tel :
Fax :
E-mail :

**SHOP FINDING REPORT
INVESTIGATION REPORT**

Repair Order : 619381
Sales Order :
Sheet : 1 of 3 Issue : 1
Date : 7/25/2019

CUSTOMER DATA

Operator : avia technique ltd
Customer Order : R 019002 3
Defect Report :
Customer Doc. :
Aircraft : A319
Aircraft Reg N° : -
Date of Removal :
Date of Receipt : 6/11/2019
Work Requested : repair - clean
Warranty Requested : No
Airworthiness Dir. :
Approved Data : CMM 21-54-14 10/1/2016 Rev 2
Modification Doc :
SB 754-21-02 Rev1 10/22/2015

UNIT RECEIVED DATA

Part N° : 754C0000-01
Amendments : -
Description : heat exchanger
Customer Ref. :
Serial N° : 81212-60948
Manufacturer : F1958
Quantity : 1
MFG Date : 042013
TSI :
TSO :
TSN :
CSI :
CSO :
CSN :

**UNIT TO BE DELIVERED /
UNIT DELIVERED**

Part N° : 754D0000-01
Amendments : -
Customer Ref. :
Serial N° : 81212-60948
Concession :
Work Performed : overhaul - recore
Warranty Applied : Out of Warranty

Comments :

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**SHOP FINDING REPORT
INVESTIGATION REPORT**

Repair Order : 619381
Sales Order :
Sheet : 2 of 3 Issue : 1
Date : 7/25/2019

REASON FOR RETURN :
EPAL CLEAN

VISUAL CHECK :

FINDINGS AND ANALYSIS :

1. Unit requires clean up.
2. Unit requires leakage testing.
3. Unit requires pressure drop test.
4. Unit requires surface protection.
5. Unit requires varnish application.
6. Unit requires final assembly.
7. Customer requests unit to be modified to P/N 754D0000-01. Requires disassembly.
8. Unit requires assembly and recore.
9. Unit requires dimensional verification.
10. Unit requires proof pressure test.
11. Unit requires leakage test.
12. Unit requires NDT/FPI.
13. Unit requires crack repair.
14. Unit requires leakage test.
15. Unit requires local NDT/FPI.
16. Unit requires surface protection.
17. Unit requires varnish application.
18. Unit requires final assembly.

ORIGIN OF DEFECT :

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**SHOP FINDING REPORT
INVESTIGATION REPORT**

Repair Order : 619381
Sales Order :
Sheet : 3 of 3 Issue : 1
Date : 7/25/2019

WORK PERFORMED :

1. Unit cleaned per CMM.
2. Leakage test performed IAW CMM.
3. Performed pressure drop test IAW CMM 21-52-12.
4. Applied alochrome treatment per CMM 21-52-12.
5. Applied varnish coating per CMM.
6. Final assembly complete IAW CMM.
7. Unit disassembled per CRM.
8. Assembled and recored unit IAW CRM 21-54-14-R.
4043, LO... CB 1819
9. Unit dimensionally verified IAW CRM 21-54-14-R.
10. Performed proof pressure test IAW CRM 21-54-14-R.
11. Performed leakage test IAW CMM 21-54-14.
12. Performed FPI on welds as per requirements of MFT0253 and MFT0398, found and marked cracks.
13. Performed crack repair IAW CRM 21-54-14-R.
4043-CB1819
14. Performed leakage test IAW CMM 21-54-14.
15. Performed local FPI on welds as per requirements of MFT0253 and MFT0398, no cracks noted.
16. Applied alochrome treatment IAW CMM 21-54-14.
17. Applied varnish coating per CMM 21-54-14.
18. Final assembly complete IAW CMM 21-54-14

CORRECTIVE ACTIONS :

Overhauled, recored and tested IAW CMM 21-54-14 rev 2 dated 10/01/2016. Complied with SB 754-21-02 rev 1 dated 06/22/2016. P/N modified to 754D0000-01.

MISCELLANEOUS :

Return Justified ? : Yes
Reason for Return Confirmed ? : Yes

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