

1. Approving competent Authority/Country CAA/UK		2. AUTHORISED RELEASE CERTIFICATE CAA FORM 1		3. Form Tracking Number  UK230000285371	
4. Organisation Name and Address: LIEBHERR LIEBHERR-AEROSPACE LINDENBERG GmbH • Pfänderstr. 50-52 - 88161 • Lindenberg • Germany • Phone: +49 (0) (8381) 46-0 • Fax: +49 (0) (8381) 46 4377				5. Work Order/Contract/Invoice 55299	
6. Item	7. Description	8. Part No	9. Qty.	10. Serial No	11. Status/Work
1	PLENUM	2230A0000-01	1	2230A00L1000539	Repaired
12. Remarks Approved Data: 21-52-52 / Rev. 04 / 28.07.2023 SFR No.: 55299 Rev. 1 DMF: 112006					
13a. Certifies that the items identified above were manufactured in conformity to: ☐ approved design data and are in a condition for safe operation ☐ non approved design data specified in block 12					
13b. Authorised Signature		13c. Approval / Authorisation Number		14a. ☒ Part-145.A.50 Release 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 Part-145 and in respect to that work the items are considered ready for release to service.	
13d. Name		13e. Date		14b. Authorised Signature JÜRGEN LANG CERTIFYING INSPECTOR 116 Electronic Signature on File	
13d. Name		13e. Date		14c. Certificate / Approval Ref. No UK.145.01542	
13d. Name		13e. Date		14d. Name Jürgen Lang	
13d. Name		13e. Date		14e. Date (dd mm yyyy) 30 Nov 2023	
USER / INSTALLER RESPONSIBILITIES This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority 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.					

1. Approving competent Authority / Country Luftfahrt-Bundesamt/ Germany		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1		3. Form Tracking Number  230000285371	
4. Organisation Name and Address LIEBHERR-AEROSPACE LINDENBERG GmbH • Pfanderstr. 50-52 • 88161 • Lindenberg • Germany • Phone: +49 (0) (8381) 46-0 • Fax: +49 (0) (8381) 46 4377				5. Work Order / Contract / Invoice 55299	
6. Item	7. Description	8. Part No	9. Qty.	10. Serial No	11. Status / Work
1	PLENUM	2230A0000-01	1	2230A00LI000539	Repaired
12. Remarks Approved Data: 21-52-52 / Rev. 04 / 28.07.2023 SFR No.: 55299 Rev. 1 DMF: 112006					
TCCA acceptance number: 898-09					
"The work identified in Block 11 and described here has been accomplished in accordance with 14 CFR part 43 and in respect to the work, the items are approved for return to service under certificate no. LA7Y195J."					
13a. Certifies that the items identified above were manufactured in conformity to: ☐ approved design data and are in a condition for safe operation. ☐ non approved design data specified in block 12.		14a. ☒ Part-145.A.50 Release 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 Part-145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval / Authorisation Number		14b. Authorised Signature JÜRGEN LANG EASA CERTIFYING INSPECTOR (116) Electronic Signature on File	
13d. Name		13e. Date (dd mmm yyyy)		14c. Certificate / Approval Ref. No DE.145.0034	
				14d. Name Jürgen Lang	
				14e. Date (dd mmm yyyy) 30 Nov 2023	
User / Installer Responsibilities This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority 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.					

适航性 Airworthiness

符合性 Conformity

8 件号 Part No.

9 适用性 Eligibility

10 数量 Quantity

11 系列号/批号 Serial/Batch No.

12 产品状态 Status/Work

13 备注 Remarks

14 新产品 New Parts

15 使用过的产品 Used Parts

16 批准人签名 Signature

17 批准人姓名 (打印的) Name (Printed)

18 批准日期 Date

19 中国民航总局授权 Issued by or on behalf of the CAAC

20 参阅产品目录详细查找适用性 Cross-check eligibility for more details with parts catalogue



C230000285371

5 工作单/合同单/货单 Work Order/Contract/Invoice

55299

D9893 LIEBHERR

Address: LIEBHERR-AEROSPACE LINDENBERG GmbH P. O. BOX 1363 88153 Germany Phone: +49 (0) (83 81) 46-0 Fax: +49 (0) (8381) 46 43 77

2230A0000-01

1

APPLICABLE TO MULTIPLE TYPES

2230A00LI000539

1

Repaired

13 备注 Remarks

Approved Data: 21-52-52 / Rev. 04 / 28.07.2023

SFR No.: 55299 Rev.1

DMF: 112006

14 新产品 New Parts

15 使用过的产品 Used Parts

16 批准人签名 Signature

17 批准人姓名 (打印的) Name (Printed)

18 批准日期 Date

19 中国民航总局授权 Issued by or on behalf of the CAAC

20 参阅产品目录详细查找适用性 Cross-check eligibility for more details with parts catalogue

F049000357

Jürgen Lang

30 Nov 2023

AAC-038 (12/94)

Ne. 1460-QA-3/02

15 使用过的产品 Used Parts

兹声明上述产品除第 13 项的其它规定以外, 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 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)

16 批准人签名 Signature

17 批准人姓名 (打印的) Name (Printed)

18 批准日期 Date

19 中国民航总局授权 Issued by or on behalf of the CAAC

20 参阅产品目录详细查找适用性 Cross-check eligibility for more details with parts catalogue

F049000357

Jürgen Lang

30 Nov 2023

AAC-038 (12/94)

Ne. 1460-QA-3/02

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 RESPONSIBILITIES

- (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，并不说明本表是安装批准。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放入维修记录中。
- (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 than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensure that his/her 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 record must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

SHOP FINDING REPORT

LIEBHERR REPAIR DOSSIER:	55299	CONTACT:	AirlinerCS LLI
RECEPTION DATE:	15 NOV 2023	EMAIL:	AirlinerCS.LLI@liebherr.com
CUSTOMER PURCHASE ORDER:	R419719	DATE:	30 NOV 2023
OPERATOR:	Qantas Australian		
AIRCRAFT TYPE:	A330		
AIRCRAFT REG. NUMBER:	VH-EBE		
AIRCRAFT SERIAL NUMBER:	842		
ADD. CUSTOMER DOCUMENTS:	N/A		

RECEIVED UNIT

DELIVERED UNIT

CUSTOMER REFERENCE: 2230A0000-01
PART NUMBER: 2230A0000-01 ✓
AMENDMENT: -
SERIAL NUMBER: 2230A00LI000539 ✓
DESCRIPTION: PLENUM
MANUFACTURING CODE: F1958
MANUFACTURING DATE: 112006 ✓

CUSTOMER REFERENCE: 2230A0000-01
PART NUMBER: 2230A0000-01 ✓
AMENDMENT: -
SERIAL NUMBER: 2230A00LI000539 ✓
DESCRIPTION: PLENUM

TIMES & CYCLES

TSN	TSO	TSI	CSN	CSO	CSI
N/A	N/A	N/A	N/A	N/A	N/A

INSTALLATION DATE:	N/A	REMOVAL DATE:	26 JULY 2023
LIFE LIMITED PARTS EXISTING:	No	NON INCIDENT STATEM.:	No
LOG CARD EXISTING:	No		

MAINTENANCE DOSSIER: 2230* / VERSION 4 (08 AUG 2023)
APPROVED DATA & MAINTENANCE DOCUMENTS: CMM 21-52-52 / REVISION 04 / 28 JULY 2023 ✓

TYPE OF CERTIFICATE:	CCAR PART 145, EASA PART 145, CAA UK PART 145, FAA PART 145, TCCA PART 145 ✓	WORK REQUESTED:	REPAIR
		WORK PERFORMED:	Repaired

REASON FOR RETURN:

INOP ✓

FINDINGS AND ANALYSIS:

Findings from Analysis:

- Unit received in dirty condition.
- Glass fiber composite damaged, mainly at the housing area.
- Housing delaminated (housing is not repairable).

Findings on parts:

- COVER, ASSY 2230A0400-01, Serial no./Batch no. N/A, Reason for removal: Delamination
- RING 2230-0003, Serial no./Batch no. N/A, Reason for removal: Chafed
- HOUSING, ASSY 2230A0100-01, Serial no./Batch no. N/A, Reason for removal: Delamination

WORK PERFORMED:

- Unit disassembled in accordance with referenced approved data.
- Unit cleaned in accordance with referenced approved data.
- Unit inspected in accordance with referenced approved data.
- Unit repaired in accordance with referenced approved data.
- Unit tested in accordance with referenced approved data.

Work performed on parts:

- COVER, ASSY 2230A0400-01, Serial no./Batch no. N/A, Corrective action: Replaced with a new unit with Part Number 2230A0400-01 with Batch Number 091122. ✓
- RING 2230-0003, Serial no./Batch no. N/A, Corrective action: Replaced with a new unit with Part Number 2230-0003 with Batch Number 209335. ✓
- HOUSING, ASSY 2230A0100-01, Serial no./Batch no. N/A, Corrective action: Replaced with a new unit with Part Number 2230A0100-01 with Batch Number 3802. ✓

LIFE LIMITED PARTS RECEIVED:

N/A

LIFE LIMITED PARTS DELIVERED:

N/A

SHOP FINDING REPORT APPROVED:

VALIDATION DATE: 29 NOV 2023
VALIDATED BY: Sigrid Ruppaner (electronic signature)

Annex: FINDINGS AND ANALYSIS PICTURES

Housing delaminated (housing is not repairable).

FindingPhoto_2023-18-11--07-14-24.jpg



FindingPhoto_2023-18-11--07-14-38.jpg



FindingPhoto_2023-18-11--07-14-47.jpg



FindingPhoto_2023-18-11--07-14-59.jpg



FindingPhoto_2023-18-11--07-15-10.jpg

LIEBHERR

Liebherr Aerospace Lindenberg GmbH * Pfänderstraße 50-52 * 88161 Lindenberg



FindingPhoto_2023-18-11--07-15-35.jpg

