

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: F23-2133	
4. Organization Name and Address: TRIUMPH AVIATION SERVICES ASIA, LTD. 700/160 Moo 1, T. Bankao, A. Pantong, Chonburi 20160 THAILAND FAA: UAPY522Y					5. Work Order/Contract/Invoice Number: SR00051121 CUST.PO#:TAP0025305	
6. Item:		7. Description:		8. Part Number:	9. Quantity:	10. Serial Number:
1		3.0 INCH DIAMETER SURGE CONTROL VALVE		3291238-2	1	6773
11. Status/Work: INSPECTED/TESTED						
12. Remarks - Inspected/Tested I.A.W. CMM 49-52-31 Rev.10 Dated Apr 11, 2022. - Incorporate applicable SB/SIL: NIL - Incorporate applicable AD: NIL - TSN: 40849-14 CSN: 27423						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation. ☐ Non-approved design data specified in Block 12				14a. ☒ 14 CFR 43.9 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:		13c. Approval/Authorization		14b. Authorized Signature: 		14c. Approval/Certificate No. UAPY522Y
13d. Name (Typed or Printed)		13e. Date (dd/mm/yyyy)		14d. Name (Typed or Printed): NAPHONKRIT LAWILAS		14e. Date (dd/mm/yyyy): 15/May/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.						
FAA Form 8130-3 (02-14)					NSN: 0052-00-012-9005	

1. Approving Competent Authority / Country EASA		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number E23-2080	
4. Organisation Name and Address: TRIUMPH AVIATION SERVICES ASIA, LTD. 700/160 Moo 1, T. Bankao, A. Pantong, Chonburi 20160 THAILAND					5. Work Order/Contract/Invoice SR00051121 CUST.PO#:TAP0025305	
6. Item	7. Description	8. Part No.	9. Qty	10. Serial No.	11. Status/Work	
1	3.0 INCH DIAMETER SURGE CONTROL VALVE	3291238-2	1	6773	INSPECTED/TESTED	
12. Remarks - Inspected/ Tested I.A.W. CMM49-52-31 Rev.10 Dated Apr 11, 2022. - Incorporate applicable SB/SIL: NIL - Incorporate applicable AD: NIL - TSN: 40849;14 CSN: 27423						
13a. Certifies 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 12 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			14c. Certificate/Approval Ref. No. EASA.145.0363	
13d. Name		13e. Date (dd mmm yyyy)			14d. Name NAPHONKRIT LAWILAS	
					14e. Date (dd mmm yyyy) 15/May/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.						

1 国家 Country P. R. China		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			3 证书编号 Form Tracking No. C23-0209	
4 单位 Organization TRIUMPH AVIATION SERVICES ASIA, LTD. 700/160 Moo 1, T. Bankao, A. Pantong, Chonburi 20160 THAILAND		5 工作单/合同单/货单 Work Order/Contract/Invoice SR00051121 CUST.PO#:TAP0025305				
6 序号 Item	7 内容 Description	8 件号 Part No.	9 适用性 Eligibility	10 数量 Qty	11 系列号/批号 Serial/Batch No.	12 产品状态 Status/Work
1	3.0 INCH DIAMETER SURGE CONTROL VALVE	3291238-2	NOT KNOWN	1	6773	INSPECTED/TESTED
13 备注 Remarks - Inspected/Tested I.A.W. CMM 49-52-31 Rev.10 Dated Apr 11, 2022. - Incorporate applicable SB/SIL: NIL - Incorporate applicable AD: NIL - TSN: 40849:14 CSN: 27423						
14 新产品 New 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进行制造/检查，并且该产品（出口产品）符合经批准的型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 Naphonkrit Lawilas		18 批准日期 Date 15/May/2023				
17 批准人姓名（打印的） Name (Printed) NAPHONKRIT LAWILAS		19 中国民航总局授权 Issued by or on behalf of the CAAC F06600488				
AAC-038 (12/94)						

ACCESSORY SHOP VISIT REPORT

INDUCTION INFO.		
CUSTOMER: TURBINEAERO REPAIR LTD.	CUSTOMER PO NO: TAP0025305	
DESCRIPTION: SURGE CONTROL VALVE	P/N: 3291238-2	S/N: 6773
REASON FOR REMOVAL: FUNCTIONAL TEST I.A.W. CMM49-52-31 LATEST REVISION AND PLEASE ADD "TSN=40849:14/CSN=27423" IN BLOCK 12 (PLEASE HOLD FOR FURTHER INSTRUCTION IF UNIT FAILED TEST)		
TSN: 40849:14	TSR: UNK	TSO: UNK
CSN: 27423	CSR: UNK	CSO: UNK

ENGINEER WORKSCOPE	
CUSTOMER REQUESTED WORKSCOPE: FUNCTIONAL TEST	ENGINEER RECOMMENDED WORKSCOPE: FUNCTIONAL TEST
REMARKS: N/A	
ENGINEER: KRangsiprakan	DATE: 15-May-2023

PRODUCTION RECORD	
CUSTOMER TAG ATTACHED: YES	RECEIVED DATE: 12-May-2023
PRELIMINARY INSPECTION: NO EXTERNAL DAMAGED.	
PRE-TEST RESULT: THE UNIT PASSED FUNCTIONAL TEST I.A.W. CMM 49-52-31 REV:10 DATED: APRIL 11, 2022	
TECHNICIAN: CTongtoen	DATE: 12-May-2023

ACCESSORY SHOP VISIT REPORT

TEARDOWN FINDING: NOT REQUIRED.		
TECHNICIAN: CTongtoen		DATE: 12-May-2023
CORRECTIVE ACTION: NOT REQUIRED.		
TECHNICIAN: CTongtoen		DATE: 12-May-2023
INSPECTOR RECORD		
UNIT HAS BEEN: INSPECTED / TESTED		RELEASED TO SERVICE WITH TSO: UNK
		RELEASED TO SERVICE WITH TSR: UNK
TAG ISSUED: SERVICEABLE	DATE: 15-May-2023	BEYOND ECONOMICAL REPAIR: ☐
WARRANTY: WARRANTY: TRIUMPH STANDARD AGREEMENT		
FINAL P/N: 3291238-2		S/N: 6773
REMARKS: THE UNIT HAS BEEN INSPECTED / TESTED I.A.W. CMM 49-52-31 REV.10, DATED: APR 11, 2022.		
INSPECTOR: NLawilas		DATE: 15-May-2023

Test Data Sheet

Part Name: SURGE CONTROL
VALVE

Date: 10 MAY 2023

Job No.: SR00051121

Manual: 49-52-31

Customer: TURBINEAERO REPAIR

Manual Rev.: 10

Part No: 3291238-2

Manual Rev. Date: April 11, 2022

Serial No.: 6773

PRE-TEST: ☒ FINAL-TEST: ☐					
Page Step	Oper Desc	Unit	Item Required	Actual	Pass(✓) Fail(x)
Page 1006,1009	ELETRICAL DIELECTRIC STRENGTH				
Page 1009	TORQUE MOTOR	mA	2.0 MAX.	0.039	✓
Page 1006	LVDT	mA	2.0 MAX.	0.119	✓
Page 1006	LVDT TO TORQUE MOTOR	mA	2.0 MAX.	0.057	✓
Page 1006	INSULATION RESISTANCE				
Page 1008	TORQUE MOTOR	MΩ	40 MIN.	∞	✓
Page 1008	LVDT	MΩ	40 MIN.	∞	✓
Page 1008	LVDT TO TORQUE MOTOR	MΩ	40 MIN.	∞	✓
Page 1008	BONDING RESISTANCE				
Page 1008	ELECTRONIC CONNECTOR CASE OR HOUSING TO VALVE BODY FLANGE	mΩ	10 MAX.	2.52	✓
Page 1008	PIN 9 TO VALVE BODY FLANGE	mΩ	10 MAX.	4.83	✓
Page 1010	LEAKAGE VALVE BODY				
Page 1010	INTERNAL (PORT) LEAKAGE	LB/MIN	1.2 MAX.	0.58	✓
Page 1010	EXTERNAL (CASE)LEAKAGE		No leak found	no leak found	✓
Page 1010	ACTUATOR PISTON SEAL FUEL DRAIN LEAKAGE	DROPS/MIN	3 MAX.	0	✓
Page 1010	ACTUATOR HOUSING EXTERNAL (CASE)LEAKAGE		No leak found	no leak found	✓
Page 1011	LVDT OUTPUT				
Page 1011	BUTTERFLY PLATE POSITION (FROM FULL CLOSED) WITH LVDT GAIN OF 0.00 (for not repair unit)	DEGREES	35 TO 41	38.5	✓
Page 1011	BUTTERFLY PLATE POSITION (FROM FULL CLOSED) WITH LVDT GAIN OF 0.00 (for repair unit)	DEGREES	34 TO 42	N/A	N/A
Page 1011	FULLY OPEN LVDT GAIN		0.47 TO 0.53	0.487	✓
Page 1011	FULLY CLOSED LVDT GAIN		-0.47 TO -0.53	-0.508	✓
Page 1011	LVDT PRIMARY AND SECONDARY VOLTAGES IN PHASE (PRI/SEC In-phase lamp illuminated)		PRI/SEC In-phase	In phase	✓
Page 1012	SLEW RATE				
Page 1012	50-DEGREE OPEN POSITION	SECOND	0.15 MAX.	0.14	✓
Page 1012	EXTERNAL(CASE) LEAKAGE		No leak found	no leak found	✓
Page 1012	FULL-OPEN POSITION	SECOND	0.25 MAX.	0.219	✓
Page 1012	EXTERNAL(CASE)LEAKAGE		No leak found	no leak found	✓
Page 1012	OPENING (ZERO MILLIAMPERES)	SECOND	3.0 MAX.	0.431	✓

TEST SHEET ID: ACC-TS-CU-3291238-2 REV.: 1 DATE: May 11, 2016 REVIEWED BY: TChouyong DATE: Nov 25, 2022 APPROVED BY: TChouyong DATE: Nov 25, 2022

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Test Data Sheet

Part Name: SURGE CONTROL
VALVE

Date: 12 MAY 2023

Job No.: SR00051121

Manual: 49-52-31

Customer: TURBINEAERO REPAIR

Manual Rev.: 10

Part No: 3291238-2

Manual Rev. Date: April 11, 2022

Serial No.: 6773

PRE-TEST: ☒ FINAL-TEST: ☐					
Page 1012	EXTERNAL (CASE) LEAKAGE		No leak found	no leak found	✓
Page 1012	FULL - CLOSED POSITION	SECOND	0.45 MAX.	0.29	✓
Page 1012	EXTERNAL(CASE)LEAKAGE		No leak found	no leak found	✓
Page 1013,1014	NULL BIAS				
Page 1013,1014	INCREASING(STARTS TO CLOSE) CURRENT	mA	10 TO 20	15.2	✓
Page 1013,1014	DECREASING (STARTS TO OPEN) CURRENT	mA	20 TO 10	13.3	✓
Page 1014	EXTERNAL (CASE) AIR LEAKAGE	LB/MIN	0.37 MAX.	0.0	✓
				Test Result :	✓

TEST SHEET ID: ACC-TS-CU-3291238-2 REV.: 1 DATE: May 11, 2016 REVIEWED BY: TChouyong DATE: Nov 25, 2022 APPROVED BY: TChouyong DATE: Nov 25, 2022

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Test Data Sheet

Part Name: SURGE CONTROL
VALVE

Date: 12 MAY 2023

Job No.: SR00051121

Manual: 49-52-31

Customer: TURBINEAERO REPAIR

Manual Rev.: 10

Part No: 3291238-2

Manual Rev. Date: April 11, 2022

Serial No.: 6773

PRE-TEST: ☒

FINAL-TEST: ☐

Indicate the ID# of each calibrated test equipment used. Ensure that the calibration due date are not expired.

ID#	TL3500-03	AC2104-01	TC3100-01	AC4104-01	TL1905-09	TC1905-01
CAL. Due Date:	Sep 14, 23	Jul 31, 23	Sep 15, 23	Jan 11, 23	Sep 5, 23	Jan 24, 24
ID#	TL3202-01					
CAL. Due Date:	Jan 22, 27					

Note

Passed functional test

Accept: ☒

Reject: ☐

Signature: Ch

Stamp: 