

1. Approving Civil Aviation
Authority/Country:

FAA/UNITED STATES

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

3. Form Tracking Number:
86758303-10300-1

4. Organization Name and Address:

Pacific Scientific Company db/a Meggit Customer Services and Support 11700 NW 102nd Rd Suite 6 MIAMI FL 33178-1029

5. Work Order/Contract/Invoice Number:
PO #: 980563926/CSCW016618
Item:

6. Item:

7. Description:

8. Part Number:

9. Quantity:

10. Serial Number:

11. Status/Work:

1 VALVE-AIR, ENGINE STARTER

1021498-3

1 EA

ISGCAP6171

OVERHAULED

12. Remarks:

OVERHAULED AND TESTED IAW UTC CMM 80-11-25 REV 4 DATED 07/26/2022
PCW SB 1021498-80-1 REV ORG DATED 10-28-2016
PCW SB 1021498-80-2 REV 2 DATED 06-21-2017
TSN: 7538.79
CSN: 3420.00
TSO: 0.00
PROGRAM NAME: NEO -SICHUAN AIRLINES

Pacific Scientific Company certifies that the work specified in Blocks 11 and 12 was carried out in accordance with EASA part 145, and with respect to that work, the component is considered ready for release to service under EASA Part 145 Approval Number EASA.145.5199.
Applicable Technical Docs: IAW UTC CMM 80-11-25 REV 4 DATED 7/26/2022
For work carried out, refer to Service Breakdown Report for Service Order 45399550

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. ☒ 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 No.:

14b. Authorized Signature:

14c. Approval/Certificate No.:

13d. Name(Typed or Printed):

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

14d. Name(Typed or Printed):

CHOUBERT GUERRIER

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

04 JAN 2023

User/Installer Responsibilities

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

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Service Breakdown Report

<p>Sold to HAMILTON SUNDSTRAND CORP 1 Hamilton Road WINDSOR LOCKS CT 06096-1000 USA</p>	<p>Page 1 of 2 Date 01/03/2023 Service notification 350499951 Meggit quality notification Service order/Report No 45399550 Sales order 9953430312 Customer PO# 980563926/CSCW016618 Customer quality ref F03-2D Customer Part#</p>
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Equipment serviced here			
Item	Part number/ Description	Serial number	Mod Status/Revision
1	1021498-3 VALVE-AIR, ENGINE STARTER Applicable Technical Docs:	LSGCAP6171	- / - IAW UTC CMM 80-11-25 REV 4 DATED 7/26/2022
Failure / complaint (as reported by customer)			
CUSTOMER REQUESTED FOR BENCH TEST AND REPAIR AS NECESSARY.			
Findings			
<p>UNIT FAILED PRETEST, CYCLING TEST UNIT WOULD NOT CLOSE COMPLETELY. UPON DISASSEMBLY AND INSEPCION FOUND WORN PACKINGS, LAMINAR ORIFICE, SOLENOID, UPPER SEAT, SPHERICAL CERAMIC BALL, COMPRESSION SPRING, LOWER SEAT, RING GUIDE, PISTON RING ASSEMBLY, PISTON RING SET, COTTER PINS, CARBON-SPLIT BUSHING, SETSCREW, CARBON BUSHINGS, SHAFT SEAL SET, THRUST WASHERS, SELF LOCKING NUTS, RING SEAL, WASHERS, SCREWS, SHROUD CYLINDER END. Out of MCSNH OE Warranty. Warranty end: 12/10/2021 UNIT REQUIRES CLEANING, PACKINGS, LAMINAR ORIFICE, SOLENOID, UPPER SEAT, SPHERICAL CERAMIC BALL, COMPRESSION SPRING, LOWER SEAT, RING GUIDE, PISTON RING ASSEMBLY, PISTON RING SET, COTTER PINS, CARBON-SPLIT BUSHING, SETSCREW, CARBON BUSHINGS, SHAFT SEAL SET, THRUST WASHERS, SELF LOCKING NUTS, RING SEAL, WASHERS, SCREWS, SHROUD CYLINDER END, OVERHAUL AND TEST. IAW ATA 80-11-25 REV 4 DTD 07/26/22, PCW SB 1021498-80-1 REV ORG DTD 10- 28-2016 & SB 1021498-80-2 REV 2 DTD 06-21-2017.</p>			
Materials			
Item	Qty	UOM Part Number	Batch Number Description Cond
1	1	EA 323968	33 WASHER, THRUST
2	1	EA 329869	13 SEAL SET, SHAFT
3	1	EA 521251	5 COMPRESSION SPRING
4	2	EA 521267	1 NON-METALLIC SPACER
5	1	EA 521350	3 ORIFICE LAMINAR
6	1	EA 521827	RING SEAL 1
7	1	EA 521840	DIAPHRAGM 4

Service Breakdown Report

<p>Sold to HAMILTON SUNDSTRAND CORP 1 Hamilton Road WINDSOR LOCKS CT 06096-1000 USA</p>	<p>Page 2 of 2 Date 01/03/2023 Service notification 350499951 Meggitt quality notification Service order/Report No 45399550 Sales order 9953430312 Customer PO# 980563926/CSCW016618 Customer quality ref F03-2D Customer Part#</p>
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8	1	EA	521860		PISTON ACTUATOR	1
9	1	EA	521861		GUIDE RING	2
10	1	EA	521867		PISTON RING ASSEMBLY	3
11	1	EA	521867		PISTON RING ASSEMBLY	3
12	1	EA	522232		SOLENOID	71
13	1	EA	522237	6	UPPER SEAT	
14	1	EA	522238	11	LOWER SEAT	
15	1	EA	522239	2	COMPRESSION SPRING	
16	1	EA	522508		WASHER, THRUST	2
17	1	EA	522689		BUSHING	3
18	1	EA	522690		BUSHING, SPLIT	2
19	1	EA	330907-1	2	BALL CERAMIC	
20	1	EA	521300-3		FILTER AND ORIFICE	4
21	1	EA	521839-1		RING, PISTON-SET	1
22	1	EA	521839-1		RING, PISTON-SET	3
23	1	EA	522119-1	0001731889	SHROUD, CYLINDER END	
24	1	EA	AN565AC4H4	0001650643	SETSCREW 0.1120-40 UNC x 6.35[0.250] LG	
25	1	EA	AS3582-007	0001672878	PACKING,PREFORMED O-RING SEAL	
26	1	EA	AS3582-010	2	PACKING,PREFORMED O-RING SEAL	
27	1	EA	AS3582-012	1	PACKING,PREFORMED O-RING SEAL	
28	1	EA	AS3582-013	2	PACKING,PREFORMED O-RING SEAL	
29	1	EA	AS3582-013	2	PACKING,PREFORMED O-RING SEAL	
30	1	EA	AS3582-020	3	PACKING,PREFORMED O-RING SEAL	
31	1	EA	AS3582-021	1	PACKING, PREFORMED	
32	1	EA	AS3582-029	74	PACKING, PREFORMED	
33	1	EA	AS3582-112	1	PACKING, PREFORMED	
34	1	EA	AS3582-910	1	PACKING, PREFORMED	
35	4	EA	MS21043-06		NUT HEX SLFLKG 6-32 CRES	
36	1	EA	MS24665-1011	1	PIN,COTTER	
37	1	EA	MS24665-1011	1	PIN,COTTER	
38	2	EA	MS24665-82	1	PIN,COTTER	
39	1	EA	NAS1102E3-16		SCREW	
0001710327						
40	1	EA	NAS1149CN816R	1	WASHER,FLAT	
41	8	EA	NAS1149CN816R	1	WASHER,FLAT	
42	2	EA	NAS1352N08H6		SCREW	
43	2	EA	NAS620C8	1	WSHR FLAT #8 PSVT,CRES	

Operation control ticket

Order 45399550 		Date 01/03/2023 Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		End date 06/29/2022
Material # 1021498-3		Priority M 30 Days
Serial # LSGCAP6171		Location
Maintenance planner group 3515		Maint work center PNE3 3515 PNE 3 (RR AIV)

UNIT FAILED PRETEST, CYCLING TEST UNIT WOULD NOT CLOSE COMPLETELY.

UPON DISASSEMBLY AND INSEPCION FOUND WORN PACKINGS, LAMINAR ORIFICE, SOLENOID, UPPER SEAT, SPHERICAL CERAMIC BALL, COMPRESSION SPRING, LOWER SEAT, RING GUIDE, PISTON RING ASSEMBLY, PISTON RING SET, COTTER PINS, CARBON-SPLIT BUSHING, SETSCREW, CARBON BUSHINGS, SHAFT SEAL SET, THRUST WASHERS, SELF LOCKING NUTS, RING SEAL, WASHERS, SCREWS, SHROUD CYLINDER END.

Out of MCSNH OE Warranty. Warranty end: 12/10/2021

UNIT REQUIRES CLEANING, PACKINGS, LAMINAR ORIFICE, SOLENOID, UPPER SEAT, SPHERICAL CERAMIC BALL, COMPRESSION SPRING, LOWER SEAT, RING GUIDE, PISTON RING ASSEMBLY, PISTON RING SET, COTTER PINS, CARBON-SPLIT BUSHING, SETSCREW, CARBON BUSHINGS, SHAFT SEAL SET, THRUST WASHERS, SELF LOCKING NUTS, RING SEAL, WASHERS, SCREWS, SHROUD CYLINDER END, OVERHAUL AND TEST.

IAW ATA 80-11-25 REV 4 DTD 07/26/22, PCW SB 1021498-80-1 REV ORG DTD 10-28-2016 & SB 1021498-80-2 REV 2 DTD 06-21-2017.

Sold-to party

Address

21378
HAMILTON SUNDSTRAND CORP
Hamilton Road WINDSOR LOCKS 06096-1000

Phone

Operation control ticket

Order 45399550 		Date 01/04/2023 Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 01/04/2023 End date 01/04/2023
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		Priority M 30 Days
Material # 1021498-3	Serial # LSGCAP6171	Location
Maintenance planner group 3515	Maint work center PNE3 3515 PNE 3 (RR AIV)	

Operation

0010

INCOMING PRELIMINARY INSPECTION



Approved technical data used:

CMM: 80-11-25 Rev: 4 Dated: 7/26/22

Verify P/N AND S/N of component, Verify customer R/O requirements, and check for AD's

SB: _____ Rev. _____ Date ____/____/____
EO: NA _____ Rev. _____ Date NA _____
SIL: _____ Rev. _____ Date ____/____/____
AD: _____ Rev. _____ Date ____/____/____

Other approved technical data required:



Technician's stamp: _____ Date: 7/5/22

Date 07/05/2022

Operation control ticket

Order 45399550 		Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W	Start date 06/29/2022	End date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER	Priority M 30 Days	
Material # 1021498-3	Serial # LSGCAP6171	Location
Maintenance planner group 3515	Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)	

Operation 0020 PRELIMINARY INSPECTION

Stamp/Date to Confirm Completion

Inspect the unit IAW approved technical data for any non-conforming conditions. Record findings or discrepancies in the evaluation report if any

Technician's stamp:  Date: 07/05/22

Operation 0030 PRELIMINARY TESTING

Stamp/Date to Confirm Completion

Perform preliminary testing in accordance with approved technical data.

Passed: ☒ Failed: ☐

Technician's stamp:  Date: 07/05/22

Operation 0040 DISASSEMBLY

Stamp/Date to Confirm Completion

Operation control ticket

Date 07/05/2022

Order 45399550 	Order type YSM3 Repair Service Order	
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W	Start date 06/29/2022	End date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER	Priority M 30 Days	
Material # 1021498-3	Serial # LSGCAP6171	Location
Maintenance planner group 3515	Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)	

Disassemble the component and inspect IAW approved technical data. Check for any hidden damage or unapproved parts. Record special remarks in evaluation if any

Technician's stamp:  Date: 7 / 5 / 22

Operation 0050 CLEANING

Stamp/Date to Confirm Completion

Clean disassembled components in accordance with approved technical data and/or any equivalent authorized procedures.

Technician's stamp:  Date: 7 / 5 / 22

Operation 0060 TEARDOWN INSPECTION

Stamp/Date to Confirm Completion

Operation control ticket

Date 07/05/2022

Order 45399550 		Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		End date 06/29/2022
Material # 1021498-3	Serial # LSGCAP6171	Priority M 30 Days
Maintenance planner group 3515	Location	
Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)		

In process inspection of sub components. Perform inspection IAW approved technical data, record remarks in evaluation findings if any

Technician's stamp:  Date: 7 / 5 / 22

Operation

0070

INSPECTION VERIFICATION / APPROVAL

Stamp/Date to Confirm Completion

In-process inspection verification and approval

Inspector's stamp:  Date: 7 / 5 / 22

Operation

0080

MACHINING PROCESS

Stamp/Date to Confirm Completion

Operation control ticket

Date 07/05/2022

Order 45399550 		Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		End date 06/29/2022
Material # 1021498-3	Serial # LSGCAP6171	Priority M 30 Days
Maintenance planner group 3515	Location Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)	

Perform required machining re-work process per work instruction provided.

Machinist's signature: J/A

Date: 1/3/23



Operation

0090

FINAL ASSEMBLY

Stamp/Date to Confirm Completion

Inspect each part before assembly. All parts are to be in serviceable condition and free of damage. Check for non-approved parts. Assemble component IAW approved technical data.

Technician's stamp: 

Date: 1/3/23

Operation

0100

FINAL TESTING

Stamp/Date to Confirm Completion


Perform functional test in accordance with approved technical data

Technician's stamp: 

Date: 1/3/23

Operation control ticket

Date 07/05/2022

Order 45399550 		Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		End date 06/29/2022
Material # 1021498-3		Priority M 30 Days
Serial # LSGCAP6171		Location
Maintenance planner group 3515		Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)

Operation

0110

INSPECTION VERIFICATION / APPROVAL.

Stamp/Date to Confirm Completion

Inspect all components are in good shape and unit was assembled according to technical requirements. Verify all tasks have been performed and passed. Verify the P/N & S/N of the component match this work order

Inspector's stamp:



Date: 1 / 3 / 23

Operation

0120

MAINTENANCE RELEASE RECORD

Stamp/Date to Confirm Completion

Operation control ticket

Date 07/05/2022

Order
45399550



Order type
YSM3
Repair Service Order

Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 06/29/2022	End date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		Priority M 30 Days	
Material # 1021498-3	Serial # LSGCAP6171	Location	
Maintenance planner group 3515	Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)		

Inspect the unit IAW manufacturer's specifications, current technical data and/or customer requirements

THIS CERTIFIES THAT THE WORK SPECIFIED IN THIS WORK ORDER WAS CARRIED OUT IN ACCORDANCE WITH FAA AIRWORTHINESS REGULATIONS AND IN RESPECT TO THE WORK PERFORMED THE PART IS APPROVED FOR RETURN TO SERVICE.

Return to service signature



Inspector's stamp:

Date: 01 / 04 / 2023

REPAIR STATION E0TR292I

FORM 9

Order object list

Order 45399550 		Date 07/05/2022 Order type YSM3 Repair Service Order
Description UNIT FAILED PRETEST, CYCLING TEST UNIT W		Start date 06/29/2022 End date 06/29/2022
Equipment # 17671389 VALVE-AIR, ENGINE STARTER		Priority M 30 Days
Material # 1021498-3	Serial # LSGCAP6171	Location
Maintenance planner group 3515	Maint work center PNE1 3515 PNE 1 (sump / dunlop / legacy)	

Location

Equipment

Serial Number

PM notif.no.

17671389

LSGCAP6171

End of report