N965DM

LIVRET D'AÉRONEF

AIRCRAFT LOG BOOK

[redacted]

MODE D'EMPLOI — INSTRUCTIONS FOR USE

1° Toutes les inscriptions doivent être faites à l'encre par le personnel qualifié du propriétaire, utilisateur, réparateur.

2° Aucune inscription ne doit être effacée ou grattée ; aucune page ne doit être arrachée.

3° Le livret doit être renseigné à l'occasion de chaque opération d'entretien. Seuls les temps de vol et atterrissages cumulés doivent être inscrits. Ceux-ci sont calculés en ajoutant les valeurs résultant de l'exploitation du carnet de route depuis la précédente visite d'entretien aux totaux cumulés précédents.

4° Les travaux d'entretien, consignes de navigabilité, remplacement de pièces ou d'accessoires, modifications, révisions partielles ou générales, nature et résultats des essais en vol consécutifs, doivent être mentionnés aux rubriques prévues à cet effet (éventuellement agrafer les listes de travaux, modifications, pièces remplacées, procès verbaux d'essais..... aux pages correspondantes du livret). Les cachets et signatures des réparateurs doivent être apposés à l'issue de chaque opération d'entretien.

5° Ce livret doit être présenté à toute demande des autorités qualifiées ou de leurs délégués.

1° The entries in this Log Book shall be made in ink by persons authorised by the owner, user or overhauler.

2° No entry shall be rubbed out or scratched out ; no page shall be torn out.

3° The aircraft log should be filled in after each maintenance operation. Cumulative flight hours and landings only should be entered. These are to be calculated by adding values issued from the Journey Log Book since the previous maintenance operation to the previous cumulative totals.

4° All details regarding maintenance, airworthiness directives, replacements of parts or accessories, modifications, minor or major overhauls, nature and results of consequent test flight shall be entered in the appropriate columns. Details of work done, modifications, replacement of parts, official reports of tests, etc.....can be attached to the corresponding pages of this book. All entries shall be signed for and stamped with the official stamps of the or overhauler after each maintenance operation.

5° This book shall be produced on demand for the inspection of any authorised person.

AERONEF - AIRCRAFT

1. Marques de nationalité et d'immatriculation :

N965DM

1. *Nationality and Registration Marks* :

2. Classification — Catégorie : **See Airworthiness Certificate**
2. *Classification* — *Catégory :*

Annotations - Mentions d'emploi : **None**
Subdivision :

3. Type de l'aéronef : **SOCATA - TBM 700** N° de série : **527**
3. *Aircraft type :* *Serial No :*

4.Construction par : **SOCATA**
4.Maker, place and date of construction :

le *on* NOV 27 2009 à *at* **TARBES**

Livret établi à **TARBES** le 12 novembre 2009
Log Book established at (Place and Date) *on*

SOCATA
DIRECTION QUALITE
QUALITY DIRECTOR

DAHER-SOCATA
SOCATA
DIRECTION
QUALITE

Signature et Cachet
Stamp and Signature

AGREMENT PRODUCTION FR.21G.0027. - *MANUFACTURING AGREEMENT FR.21G.0027.*

PRIOR Aviation Service Inc.

BUFFALO NIAGARA INTERNATIONAL AIRPORT
50 NORTH AIRPORT DRIVE
BUFFALO NEW YORK 14225 1456

Registration Number	Model	Serial Number	Hobbes Time	Date
N965DM	TBM 850	527	860.1+359.8=1219.9	07/14/2020

1. Replace torque transmitter for intermittent signal. C/A Removed and replaced torque transducer P/N 8107-200-00-10, S/N 720 with new P/N 716772403, S/N 8458-2-221 IAW AMM 77-14-00. Leak and ops check satisfactory. OK for service.

The aircraft and/or component identified above was repaired and inspected in accordance with current F.A.A. regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this repair agency under Work Order #SS-017808 Dated 07/14/2020

Signed [redacted] [redacted]

Prior Aviation Service Inc. 50 N. Airport Drive Buffalo NY 14225

réparateur
ise en service
of overhauler
elease

SERVICE DE L'AÉRONEF - AIRCRAFT RECORD

Airframe Cont'd

LOG BOOK ENTRY (CONT.)

WO NO.
MWO-19-6253

32. Removed and replaced inertial separator actuator with new using Daher Inertial Separator Kit No. OPT70 K15100 in accordance with **Daher SB 70-224.** Operational check satisfactory. (S/N installed: 000392)

33. Performed post inspection ground run. Operational and leak checks satisfactory.

----------END----------

COLUMBIA AIR SERVICES, INC.
GROTON-NEW LONDON AIRPORT
GROTON, CONNECTICUT 06340

FAA Repair Station #SO5R204N. Work Order # MWO-19-6253
I certify that this **Airframe** has been inspected in accordance with a **B+/Annual** Inspection in accordance with FAR Part 43 Appendix D using Daher TBM 850/900 Model M.M. chapters 05-20-03 & 05-20-05 as a guide, and determined to be in airworthy condition. Pertinent details of the inspection are on file at this facility.
Date: 12/6/19 A/C Total Time: 1181.8

Signature: [redacted]

Airframe Cont'd

LOG BOOK ENTRY (CONT.)

WO NO.
MWO-19-6253

14. Complied with **Daher SB 70-118 Amend. 1**, "SAGEM/AVIAC" flap actuator. Performed play check between drive nut and internal actuator rod per Paragraph A, found to be satisfactory. Cleaned and lubricated flap actuator rods per Paragraph C. **Paragraph A/B & C next due: 1381.8 ACTT/1022.02 Hobbs or 12/31/20.**

15. **Daher SB 70-254**, Oil cooler air induction duct, does not apply. **Daher SB 70-231** has not been applied to this aircraft. No action required.

16. Complied with **Daher SB 70-265**, Emergency descent mode upgrade. Installed EDM software patch per SB instructions. No further action required.

17. Inserted Revision 13 in Pilot's Operating Handbook (P.O.H.).

18. Removed and replaced three (3) cowl fasteners with new, P/N: 7022130019.

19. Serviced oxygen system as required with Aviators Breathing Oxygen.

20. Resecured bleed air selector swtich. Operational check satisfactory.

21. Resecured elevator hoses to provide proper clearance with stick shaker.

22. Removed and replaced main cabin floor right side vent hose with new, P/N: 7306290039.

23. Removed and replaced right side window seal with new, P/N: 7423430000 in accordance with Daher TBM 850/900 Model M.M. chapter 56-20-00.

24. Inspected and patched left wing inboard, center and vertical fin deice boots as required.

25. Removed and replaced right inboard wing anti-chafe tape with new.

26. Defueled aircraft. Removed, cleaned, resealed and reinstalled right wing fuel panel #'s 631 and 633. Replaced two (2) inserts with new, P/N: 7394810850.. Resealed inboard upper corner of the left and right fuel tanks. Resealed left wing fuel panel nutcerts. Refueled aircraft. Leak check satisfactory. Work performed in accordance with Daher TBM 850/900 Model M.M. chapter 52-40-01.

27. Evacuated refrigerant from air conditioning system. Removed and replaced service port schrader valves with new, P/N: 8089000070 (Qty 4). Reserviced with R-134a refrigerant and SP-10 oil. Operational and leak checks satisfactory.

28. Replaced oxygen switch cover with new, P/N: T700G2510401100/

29. Removed and replaced left and right brake linings with new, P/N: 109-01500 (Qty 64).

30. Bled air from brake system in accordance with Daher TBM 850/900 Model M.M. chapter 32-40-03.

31. Removed and replaced lower cowl v-band clamp nuts with new, P/N: 7228070007 (Qty 2).

----------CONTINUED----------

SERVICE DE L'AÉRONEF - AIRCRAFT RECORD

Airframe Cont'd

LOG BOOK ENTRY (CONT.)

WO NO.
MWO-19-6253

- 1 year left and right flap rollers lubrication.
- 1 year nose and main landing gear condition and leak check.
- 1 year nose and main landing gear axle lubrication.
- 1 year nose and main landing gear shock-absorber inflation pressure.
- 3 year shimmy damper hydraulic fluid replacement. Drained and reserviced with PSF-100cst hydraulic fluid.
- 1 year post maintenance flight check.

3. Removed and replaced ELT battery with new, P/N: 452-0133. Inspected ELT in accordance with FAR 91.207d, found to be satisfactory. **Battery replacement due: NOV. 2024.**

4. Complied with 2 year pitot-static inspection per RVSM requirement. Found to be satisfactory.

5. Complied with 2 year static ports height and slope check per RVSM requirement. Found to be satisfactory.

6. Complied with 2 year air data computers (GDC 74B) functional test per RVSM requirement. Found to be satisfactory.

7. Complied with 1 year autopilot altitude control system (GMC 710) inspection per RVSM requirement. Found to be satisfactory.

8. Complied with 1 year Whelen LED lighting system per Instructions for Continued Airworthiness Form No. 14661. Found to be satisfactory.

9. Complied with 400 hour/1 year propeller detailed inspection in accordance with Hartzell Propeller Owner's Manual #147 and STC# SA03291CH. Found to be satisfactory.

10. Complied with 100 hour/1 year propeller deice system inspection in accordance with Hartzell Propeller Ice Protection System Manual #180 and STC# SA03291CH. Found to be satisfactory.

11. Complied with 100 hour/1 year propeller non-rotating or airframe mounted component inspection in accordance with Hartzell Propeller Ice Protection System Manual #180 and STC# SA03291CH. Found to be satisfactory.

12. Complied with 6 year fire extinguisher replacement. Removed and replaced fire extinguisher with new, P/N: C352TS S/N: F75058535. (S/N removed: A-2968264)

13. AD 2018-21-14 amend. 39-19472 dated 3/27/19, Zodiac Aerotechnics oxygen mask regulators inflatable harness assembly, does not apply by installed regulator part number (MC10-02-121) and harness part number (MXH16). No action required.

----------CONTINUED----------

Airframe Columbia Air Services, Inc. LOG BOOK ENTRY Page 1 of 4

A/C REG: *N965DM* A/C S/N: 527

DATE: 12/6/19	A/C TOTAL TIME: 1181.8	HOUR METER: 822.0
W/O NO: MWO-19-6253	ENGINE TOTAL TIME 1181.8	S.M.O.H.

1. Complied with a B+/Annual Inspection in accordance with FAR Part 43 Appendix D using Daher TBM 850/900 Model M.M. chapters 05-20-03 and 05-20-05 as a guide. Researched AD's through Bi-Weekly 2019-24.
2. Complied with the following special checks:

- 1 year spoiler and aileron cable assembly on wing, rudder cables and elevator trim tab control cables tension and safetying of turnbuckles.
- 1 year gaseous oxygen system condition, attachment, and operational test.
- 1 year Concorde lead acid battery (initial) capacity check. Removed, boost charged and performed capacity check of battery (S/N: 40956520). Battery passed capacity check. Charged and reinstalled battery. Work performed in accordance with Concorde RG Series Battery Document No. 5-0171.
- 3 year hydraulic system fluid replacement. Drained and reserviced with MIL-PRF-5606H hydraulic fluid.
- 3 year brake reservoir fluid replacement. Drained and reserviced with MIL-PRF-5606H hydraulic fluid.
- 10 year firewall inspection.
- 2 year outflow and safety valve seat cleaning.
- 1 year passenger masks, gaseous oxygen, inspection and cleaning.
- 1 year B35, B36, and B37 servo-actuators cable condition and tension checks.
- 1000 hour/3 year B35, B36, B37 and B38 servo-actuators gear greasing.
- 1 year B35, B36, B37, and B38 servo-actuators clutch friction torque checks.
- 1 year (gyroscopic instrument air) filter cleanliness and condition check.
- 1 year drain under floor condition, cleanliness, and attachment check.
- 1 year water separator filter condition and attachment check.

----------CONTINUED----------

Date

Date

Airframe Page 1 of 1

LOG BOOK ENTRY

A/C REG: N965DM A/C S/N: 527

DATE: 11/25/2019	A/C TOTAL TIME:	HOUR METER: 822.0
W/O NO: A-19-4544	ENGINE TOTAL TIME	S.M.O.H.

TRUE	FLY AT PILOT	CO-PILOT	STBY	TRUE	FLY AT PILOT	CO-PILOT	STBY
-1000	0	0	-20	14000	0	0	-20
0	0	0	0	16000	0	0	-40
500	0	0	0	18000	0	0	-60
1000	0	0	0	20000	0	0	-70
1500	0	0	+25	22000	0	0	-70
2000	0	0	+25	25000	0	0	-50
3000	0	0	+25	30000	0	0	+40
4000	0	0	+35	35000	0	0	+150
6000	0	0	+35	40000	N/A	N/A	N/A
8000	0	0	+20	45000	N/A	N/A	N/A
10000	0	0	0	50000	N/A	N/A	N/A
12000	0	0	0				

Altimeter Corrections **Certified to 35,000ft**

MAINTENANCE RELEASE

I CERTIFY THAT THE TRANSPONDER/ALTIMETER/STATIC TESTS OF FAR 91.411 AND FAR 91.413 HAVE BEEN COMPLIED WITH IN THIS AIRCRAFT PER 14 CFR 43 APPENDIX E AND F.

Altimeter #1 **43805332** Altimeter #2 **43805460** Altimeter #3 **1047572** Transponder #1 **89108220** Transponder #2 **89108222**

W/O# **A-19-4544** DATE **11/25/2019** DUE DATE **11/2021** SIGNED [redacted]

FOR COLUMBIA AIR SERVICES, INC. FAA CERTIFIED REPAIR STATION # S[redacted], CT 06340

PRIOR Aviation Service Inc.
716-633-1200
FAX : 716-839 2151
BUFFALO NIAGARA INTERNATIONAL AIRPORT
50 NORTH AIRPORT DRIVE
BUFFALO NEW YORK 14225-1450

Registration Number	Serial Number	HOBBS TIME	Date
N965DM	527	1,180.5 HRS	11/20/2019

1. **Remove ELT Model C406-1S/N 170-07913 for Expired Battery. Removed S/N 170-07913 and placarded overhead panel.**

The aircraft and/or component identified above was repaired and inspected in accordance with current F.A.A. regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this repair agency under Work Order # 026766

Mark Kuwik A&P IA [redacted]

Prior Aviation Service Inc. 50 N Airport Dr. Buffalo NY 14225 [redacted]

Dates	Duration of flight since last maintenance operation	Heures totales Hours since manufacture	entretien majeur Hours since major maintenance	d'atterrissages Number of landings	Motif de l'entretien Maintenance motive

Airframe — **Columbia** *Air Services, Inc.* — Page 1 of 1

A/C REG: *N965DM* — **LOG BOOK ENTRY** — A/C S/N: 527

DATE: 11/19/19	A/C TOTAL TIME: 1180.5	HOUR METER: 1180.5	
W/O NO: MWO-19-6120	ENGINE TOTAL TIME 1180.5		S.M.O.H.

1. This aircraft has been inspected and has been found in a safe condition for the direct ferry flight from KBUF to KGON.
2. **AD 2018-21-14** amend. 39-19472 dated 3/27/19, Zodiac Aerotechnics oxygen mask regulator inflatable harness assembly, does not apply by installed part number. No further action required.
3. All applicable AD's through Bi-Weekly 2019-23 have been complied with.

----------END----------

The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are On File At This Repair Station Under

W/O# MWO-19-6120 DATE: 11/19/19 SIGNED: [redacted]

For **Columbia** *Air Services, Inc.* FAA Certified Repair Station # SO5R204N Groton-New London Airport Groton, CT 06340

ENGINE LOGBOOK

PT6A Turboprop

PCE-RV0185

Pratt & Whitney Canada

A United Technologies Company

Section

Engine

Columbia *Air Services, Inc.*
LOG BOOK ENTRY

A/C S/N: 527

A/C REG: *N965DM*			
DATE: 6/23/16	A/C TOTAL TIME: 970.6	HOUR METER: 610.8	
W/O NO: MWO-16-5149	ENGINE TOTAL TIME 970.6		S.M.O.H.

1. Complied with **P&WC SB No. 14001R19 Paragraph 3(D),** Turboprop approved listings of (synthetic) lubricating oils. Obtained oil sample and oil filter rinse patch for analysis. "Minor Carbon" noted in results. Performed "top-up" procedure by adding 1 quart of Aeroshell ASTO 560 oil. Installed "Service with Aeroshell ASTO 560 Oil" on gull wing door. Provided owner/operator with 2 quarts of ASTO 560 oil. Oil change requirement is now "On Condition". No further action required.
2. Complied with **P&WC SB 14476R2**, PY-tube support bracket introduction for 5 bladed propeller. Installed PY-tube support bracket, P/N: 3079151-01 per SB instructions. No further action required.
3. Performed a first stage compressor FOD inspection in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-30-05. Found to be satisfactory.
4. Performed borescope inspection of hot section, found to be satisfactory.
5. Performed an engine ground performance run in accordance with Socata TBM 850/900 Model M.M. chapter 71-00-00 Table 202. All checks satisfactory.
6. Performed a turbo-prop and propeller replacement post-inspection flight check in accordance with Socata TBM 850 Model M.M. chapter 05-12-02. Operational and leak checks satisfactory.

----------END----------

MAINTENANCE RELEASE

THE AIRCRAFT AIRFRAME, ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED. PERMANENT RECORDS OF THE REPAIR AR[redacted]DER

W/O# MWO-16-5149 DATE: 6/23/16 SIGNED: [redacted]

FOR Columbia *Air Services, Inc.* FAA CERTIFIED REPAIR STATION # SO5R204N GROTON, CT 06340

Engine

Columbia *Air Services, Inc.*
LOG BOOK ENTRY

A/C S/N: 527

A/C REG: *N965DM*			
DATE: 5/3/17	A/C TOTAL TIME: 1057.8	HOUR METER: 698.0	
W/O NO: MWO-17-5436	ENGINE TOTAL TIME 1057.8		S.M.O.H.

1. Complied with a C+/Annual Inspection in accordance with FAR Part 43 Appendix D using Socata TBM 850/900 Model M.M. chapters 05-20-04 and 05-20-05 as a guide. Researched AD's through Bi-Weekly 2017-09.
2. Complied with the following special checks:
   - 200 hour compressor desalination wash in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 71-00-00.
   - 600 hour/1 year chip detector condition and operation.
3. Complied with minor, routine and 100 hour inspection items in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-00-00 Table 601.
4. Complied with **P&WC SB No. 14473R3**, Torque limiter inspection. Inspected torque limiter pivot spring assembly per SB instructions. Found to be satisfactory. No further action required.
5. Complied with **P&WC SB No. 14507R1**, Inspection of interconnect rod. Inspected FCU interconnect rod safeties and found to be properly installed allowing proper operation of FCU and cam levers. No further action required.
6. **P&WC SB 14511R3**, Inspection/replacement of second stage power turbine blade **applies** by engine serial number (PCE-RV0185). Per SB, compliance is not due until hot section inspection (HSI) due to blades having more than 800 hours TSN. **Compliance due @ 1750.0 ACTT.**
7. Performed first stage compressor FOD inspection in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-30-05, found to be satisfactory.

----------CONTINUED----------

Engine Cont'd

LOG BOOK ENTRY (CONT.)

WO NO.
MWO-17-5436

8. Performed I.T.T. (T5) internal loop and insulation resistance checks in accordance with P&WC PT6A-66D P/N: 3070902 M.M. chapter 77-20-01, found to be satisfactory.
9. Obtained oil sample and oil filter rinse patch for analysis.
10. Removed and replaced one (1) igniter with new, P/N: CH34055.
11. Applied Procyon corrosion inhibitor to compressor inlet case in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-00-00.
12. Performed post inspection ground run and aircraft flight check. Operational and leak checks satisfactory.

----------END----------

Columbia *Air Services, Inc.*
GROTON-NEW LONDON AIRPORT
GROTON, CONNECTICUT 06340

FAA Repair Station #SO5R204N. Work Order # MWO-17-5436
I certify that this **Engine** has been inspected in accordance with a **C+/Annual** Inspection in accordance with FAR Part 43 Appendix D using Socata TBM 850/900 Model M.M. chapters 05-20-04 & 05-20-05 as a guide, and determined to be in airworthy condition. Pertinent details of the inspection are on file at this facility.
Date: 5/3/17 A/C Total Time: 1057.8

Signature: [redacted]

Engine

Columbia *Air Services, Inc.*
LOG BOOK ENTRY

A/C REG: *N965DM* A/C S/N: 527

DATE: 6/6/18	A/C TOTAL TIME: 1107.0	HOUR METER: 747.2
W/O NO: MWO-18-5772	ENGINE TOTAL TIME 1107.0	S.M.O.H.

1. Complied with an A+/Annual Inspection in accordance with FAR Part 43 Appendix D using Daher TBM 850/900 Model M.M. chapters 05-20-02 and 05-20-05 as a guide. Researched AD's through Bi-Weekly 2018-11.
2. Complied with the following special checks:

- 200 hour compressor desalination wash in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 71-00-00.
- 400 hour fuel manifold adapters. Removed and reinstalled fuel manifolds after inspection. (Cleaned and Flow Checked) Ref. Dallas Airmotive, Inc. (Washington, PA). W/O# RPR49510. Reinstalled manifolds in accordance with P&WC PT6A-66D M.M. P/N: 3070902, chapter 73-11-05. Performed borescope inspection of hot section. Operational and leak checks satisfactory. **Note: P&WC SB No. 14357R4 and 14495R4 were complied with by Dallas Airmotive.**
- 600 hour fuel pump inlet screen condition and cleanliness.
- 600 hour fuel unit filter replacement. Removed and replaced filter with new, P/N: 3059779-01.
- 1000 hour oil filter replacement. Removed and replaced filter with new, P/N: 3059258-01.
- 600 hour/1 year chip detectors condition and operation.

3. Complied with Columbia Air Services, Inc. recommended 400 hour oil change. Drained engine oil and reserviced with Aeroshell 560 turbine oil.
4. Complied with minor, routine and 100 hour inspection items in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-00-00 Table 601.

----------CONTINUED----------

Sect

Engine Cont'd

LOG BOOK ENTRY (CONT.)

WO NO.
MWO-18-5772

5. Complied with **P&WC SI 106-2015R2**, P&WC oil analysis technology trial. Obtained oil sample and sent to P&WC for analysis.
6. Performed first stage compressor FOD inspection in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-30-05, found to be satisfactory.
7. Performed I.T.T. (T5) internal loop and insulation resistance checks in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 77-20-01, found to be satisfactory.
8. Obtained oil sample and oil filter rinse patch for analysis.
9. Removed and replaced flow devider with an overhauled unit, P/N: 25638-3/3023670H S/N: M0458. Ref. Kansas Aviation of Independence, LLC (Independence, KS) W/O# 163644. Operational and leak checks satisfactory. Work performed in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 73-10-04. (S/N removed: 9959530219)
10. Performed post inspection ground run and aircraft flight check. Operational and leak checks satisfactory.

----------END----------

Columbia *Air Services, Inc.*
GROTON-NEW LONDON AIRPORT
GROTON, CONNECTICUT 06340

FAA Repair Station #SO5R204N. Work Order # MWO-18-5772
I certify that this **Engine** has been inspected in accordance with an **A+/Annual** Inspection in accordance with FAR Part 43 Appendix D using Daher TBM 850/900 Model M.M. chapters 05-20-02 & 05-20-05 as a guide, and determined to be in airworthy condition. Pertinent details of the inspection are on file at this facility.
Date: 6/6/18 A/C Total Time: 1107.0

Signature [redacted]

Engine

Columbia *Air Services, Inc.*
LOG BOOK ENTRY

A/C REG: *N965DM* A/C S/N: 527

DATE: 6/19/19	A/C TOTAL TIME: 1180.5	HOUR METER: 1180.5
W/O NO: MWO-19-6120	ENGINE TOTAL TIME 1180.5	S.M.O.H.

1. Removed power section, P/N: PT6A-66D S/N: PS-RV0185, and sent to Dallas Airmotive (New London, NC) for propeller strike repair.

----------END----------

MAINTENANCE RELEASE
THE AIRCRAFT AIRFRAME, ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED. PERMANENT RECORDS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION

W/O# MWO 19-6120 DATE: 6/19/19 SIGN [redacted]

FOR **Columbia** *Air Services, Inc* FAA CERTIFIED REPAIR

DallasAirmotive
A BBA Aviation company

40591 Airport Road
New London, NC 28127
CERTIFICATE NO. YRR2491L

PT6A-66D	PowerSect. S/N: PS-RV0185	T.S.N.: 1180.5	C.S.N.: 451	T.S.O.: NA	C.S.O.: NA

RECEIVED POWERSECTION ONLY.
INSPECTED AND REPAIRED POWERSECTION FOR CUSTOMER REPORTED PROPSTRIKE. TESTED WITH SLAVE GAS GENERATOR. PERFORMED VIBRATION CHECK, TORQUE CHECK, AND LEAK CHECKS. ALL WORK DONE WITH REFERENCE TO PRATT & WHITNEY OVERHAUL MANUAL P/N 3070903 REV. 15 DATED 10 JUNE 2019, MAINT. MANUAL P/N 3070902 REV. 18.1 DATED 27 JULY 2017, AND OTHER DATA AND METHODS ACCEPTABLE TO THE ADMINSITRATOR. SEE ATTACHED PARTS LIST AND 8130'S FOR PARTS REPAIRED OR REPLACED.

PT STATOR AREA=23.24
COMPLIED WITH SERVICE BULLETIN: SB14511R3

LIFE LIMITED COMPONENTS INSTALLATION (NOTE: REFER TO S/B , LATEST REVISION, FOR APPROVED LIFE LIMITS)

Name	Part Number	Serial Number	Total Cycles	Cycles Rem	Name	Part Number	Notes:
Disk Stg 1 PT	3037312	A002KCHE	451	14549			
Disk Stg 2 PT	3037313	A002KE4N	451	14549	Blade 2nd Stg PT	3056693-01	43 EA. NEW TT=00.0 TIME REM=5000 HRS PER SB14603R27
							DISK CYCLES CALC PER SB14002R25

This engine has been repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of this repair are on file at this repair station under work order: **RPR52593**

Signature: [redacted] DAI 236 Date: 29 JULY 2019

STAGE 2 PT SERIALIZED BLADES

Serial Number	Serial Number	Serial Number	Serial Number	Serial Number	Serial Number	Serial Number	Serial Number
TH10A140	TH37A047	TH32A722	TH36A281	TH42A762	TH44A740	TH44A490	TH45A499
TH10A779	TH37A351	TH36A891	TH36A663	TH42A779	TH42A759	TH44A741	-
TH36A643	TH37A223	TH37A053	TH37A052	TH42A806	TH42A850	TH44A797	-
TH36A903	TH01A291	TH08A763	TH37A233	TH42A851	TH44A376	TH45A335	-
TH36A170	TH08A145	TH32A785	TH42A754	TH44A389	TH44A422	TH45A385	-
TH36A746	TH10A037	TH34A249	TH42A760	TH44A481	TH44A446	TH45A326	-

DallasAirmotive

40591 AIRPORT ROAD, NEW LONDON, NC 28127
CERTIFICATE NO. YRR2491L

WORK ORDER NUMBER	PWR SECTION SERIAL NUMBER	MODEL	DATE
RPR52593	PS-RV0185	PT6A-66D	29 JULY 2019

ENGINE T.S.N.	ENGINE C.S.N.	ENGINE T.S.O.	ENGINE C.S.O.	SIGNATURE
1180.5	451	NA	NA	C. PECKHAM

DAI 236

ACCESSORY INSTALLATION

NAME	P/N	S/N	TSO	REMARKS
OVERSPEED GOV.	N/REC	N/REC	N/REC	N/REC
CONSTANT SPEED GOV.	8210-007-01	1196091	00.0	OVERHAULED/EXCHANGE
TORQUE LIMITER	3244862-2	C35432	1180.5	

Engine

Columbia Air Services, Inc.

LOG BOOK ENTRY

A/C REG: N965DM A/C S/N: 527

DATE: 11/19/19	A/C TOTAL TIME: 1180.5	HOUR METER: 1180.5
W/O NO: MWO-19-6120	ENGINE TOTAL TIME 1180.5	S.M.O.H. (CSN: 451)

1. Performed an engine propeller strike inspection in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-00-00-Inspection Paragraph 12.6.(1). Removed and reinstalled engine power section, P/N: 3071018-01 S/N: PS-RV0185, after propeller strike repair. Ref. Dallas Airmotive, Inc. (New London, NC) W/O# 2106894. Inspected CT disk and shroud segments, found to be satisfactory. Torqued and safetied hardware. Operational and leak checks satisfactory. Work performed in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72 and Daher TBM 850/900 Model M.M. chapters 61, 76 and 77. **(Note P&WC SB Bo. 14511R3 was complied with at this time) See engine log for further details.**
2. Performed a propeller touch down inspection in accordance with Daher TBM 850/900 Model M.M. chapter 05-50-05 Pages 601 and 602
3. Removed and replaced propeller with new, P/N: HC-E5N-3C S/N: RJ464. Torqued and safetied hardware. Operational and leak checks satisfactory. Work performed in accordance with Hartzell Propeller Owner's Manual #147 chapter 61-00-47. (S/N removed: RJ234)
4. Removed and reinstalled overspeed governor, P/N: A210632 S/N: 15332514, after overhaul. Ref. Kansas Aviation of Independence, LLC (Independence, KS) W/O# MRO-19-0138. Leak check and functional test satisfactory.. Work performed in accordance with Daher TBM 850/900 Model M.M. chapter 61.
5. Obtained oil sample and oil filter rinse patch for analysis.
6. Performed post installation engine ground runs, operational and leak checks satisfactory.

----------END----------

The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are On File At This Repair Station Under W/O# MWO-19-6120 DATE: 11/19/19 SIGNED: [redacted]

For Columbia Air Services, Inc. FAA Certified Repair Station # SO5R204N Groton-New London Airport Groton, CT 06340

Engine

Columbia Air Services, Inc.

LOG BOOK ENTRY

A/C REG: N965DM A/C S/N: 527

DATE: 12/6/19	A/C TOTAL TIME: 1181.8	HOUR METER: 822.0
W/O NO: MWO-19-6253	ENGINE TOTAL TIME 1181.8	S.M.O.H.

1. Complied with an A+/Annual Inspection in accordance with FAR Part 43 Appendix D using Daher TBM 850/900 Model M.M. chapters 05-20-03 and 05-20-05 as a guide. Researched AD's through Bi-Weekly 2019-24.
2. Complied with the following special checks:
   - 200 hour compressor desalination wash in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 71-00-00.
   - 600 hour fuel pump inlet screen condition and cleanliness.
   - 600 hour fuel unit filter replacement. Removed and replaced filter with new, P/N: 3059779-01.
   - 200 hour ignition exciter condition and attachment.
   - 200 hour ignition cables routing, attachment and wear.
   - 200 hour spark igniters cleanliness and erosion.
   - 200 hour spark igniters operational test.
   - 600 hour/1 year chip detectors condition and operation.
3. Complied with Columbia Air Services, Inc. recommended 400 hour oil change. Drained engine oil and reserviced with Aeroshell 560 turbine oil.
4. Complied with minor, routine and 100 hour inspection items in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-00-00 Table 601.
5. Complied with **P&WC SB No. 14507R2**, Inspection FCU interconnect rod. Inspected and found interconnect rod safeties properly installed. No further action required.

----------CONTINUED----------

Engine Cont'd

LOG BOOK ENTRY (CONT.)

WO NO.
MWO-19-6253

6. Performed first stage compressor FOD inspection in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 72-30-05, found to be satisfactory.
7. Performed I.T.T. (T5) internal loop and insulation resistance checks in accordance with P&WC PT6A-66D M.M. P/N: 3070902 chapter 77-20-01, found to be satisfactory.
8. Obtained oil sample and oil filter rinse patch for analysis.
9. Removed and replaced inertial separator actuator with new using Daher Inertial Separator Kit No. OPT70 K15100 in accordance with **Daher SB 70-224.** Operational check satisfactory. (S/N installed: 000392)
10. Performed post inspection ground run and aircraft flight check. Operational and leak checks satisfactory.

----------END----------

Columbia Air Services, Inc.
GROTON-NEW LONDON AIRPORT
GROTON, CONNECTICUT 06340

FAA Repair Station #SO5R294N. Work Order # MWO-19-6253
I certify that this **Engine** has been inspected in accordance with an **B+/Annual** Inspection in accordance with FAR Part 43 Appendix D using Daher TBM 850/900 Model M.M. chapters 05-20-03 & 05-20-05 as a guide, and determined to be in airworthy condition. Pertinent details of the inspection are on file at this facility
Date: 12/6/19 A/C Total Time: 1181.8

Signature: [redacted]

Transport Canada Transports Canada

TP 14182
(Revised 05/2005)

Engine Logbook

GAS GENERATOR MODULE LOG BOOK

TC1001185
05/2005

Canada

Volume #: 1

Opened on: 24 MAR 2009

ENGINE DETAILS

1. Manufacturer ____ **Pratt & Whitney Canada Corp.**

2. Type/Model/Series **E.T.C. E-** 21 **PT6A-** 66D **B/S:** 1198

3. Serial Number ____ **PCE-** RV0185

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
24 MAR 2009	○ ○	○ ○	○	**New engine final acceptance test and inhibiting run completed satisfactorily and is in condition for safe operation.**
12 novembre 2009	1H05	0.0	1	Vol d'essai constructeur
13 novembre 2009	2H45	0.0	2	
23 novembre 2009	3H45	0.0	3	
24 novembre 2009	4H45	0.0	4	

Arrêté présent livret à la SOCATA
le 24/11/09 **au total de** 4H45

Visa du Département Qualité

[redacted]

151 CP

ACCEPTABLE TO EASA
AND METHODS
RED BULLETIN: SB14511R3

	Signature	AME ACA/AMO SCA/AMO

Section 1: Record of engine maintenance and elementary work

DallasAirmotive
A BBA Aviation Company

40591 Airport Road
New London, NC 28127
CERTIFICATE NO. YRR2491L

PT6A-66D	PowerSect. S/N: PS-RV0185	T.S.N.: 1180.5	C.S.N.: 451	T.S.O.: NA	C.S.O.: NA

RECEIVED POWERSECTION ONLY.
INSPECTED AND REPAIRED POWERSECTION FOR CUSTOMER REPORTED PROPSTRIKE. TESTED WITH SLAVE GAS GENERATOR. PERFORMED VIBRATION CHECK, TORQUE CHECK, AND LEAK CHECKS. ALL WORK DONE WITH REFERENCE TO PRATT & WHITNEY OVERHAUL MANUAL P/N 3070903 REV. 18 DATED 10 JUNE 2019, MAINT. MANUAL P/N 3070902 REV. 18.1 DATED 27 JULY 2017, AND OTHER DATA AND METHODS ACCEPTABLE TO THE ADMINSITRATOR. SEE ATTACHED PARTS LIST AND 8130'S FOR PARTS REPAIRED OR REPLACED.

PT STATOR AREA=23.24
COMPLIED WITH SERVICE BULLETIN: SB1451IR3

LIFE LIMITED COMPONENTS INSTALLATION (NOTE: REFER TO S/B , LATEST REVISION, FOR APPROVED LIFE LIMITS)

Name	Part Number	Serial Number	Total Cycles	Cycles Rem	Name	Part Number	Notes:
Disk Stg 1 PT	3037312	A002KCHE	451	14549			
Disk Stg 2 PT	3037313	A002KE4N	451	14549	Blade 2nd Stg PT	3056693-01	43 EA. NEW TT=00.0 TIME REM=5000 HRS PER SB14603R27
							DISK CYCLES CALC PER SB14002R25

This engine has been repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of this repair are on file at this repair station under work order: **RPR52593**

Signature: [redacted] Date: 29 JULY 2019

STAGE 2 PT SERIALIZED BLADES

Serial Number	Serial Number	Serial Number	Serial Number	Serial Number	Serial Number	Serial Number	Serial Number
TH10A140	TH37A047	TH32A723	TH36A281	TH42A762	TH44A740	TH44A490	TH45A499
TH10A779	TH37A351	TH36A891	TH36A663	TH42A779	TH42A759	TH44A741	"
TH36A643	TH37A223	TH37A033	TH37A052	TH42A806	TH42A850	TH44A797	"
TH36A903	TH01A291	TH08A763	TH37A233	TH42A851	TH44A376	TH45A335	"
TH36A170	TH08A145	TH32A785	TH42A754	TH44A389	TH44A422	TH45A385	"
TH36A746	TH10A037	TH34A249	TH42A760	TH44A481	TH44A446	TH45A326	"

DallasAirmotive

40591 AIRPORT ROAD, NEW LONDON, NC 28127
CERTIFICATE NO. YRR2491L

WORK ORDER NUMBER	PWR SECTION SERIAL NUMBER	MODEL	DATE
RPR52593	PS-RV0185	PT6A-66D	29 JULY 2019

ENGINE T.S.N.	ENGINE C.S.N.	ENGINE T.S.O.	ENGINE C.S.O.	SIGNATURE
1180.5	451	NA	NA	C. PECKHAM

ACCESSORY INSTALLATION

NAME	P/N	S/N	TSO	REMARKS
OVERSPEED GOV.	N/REC	N/REC	N/REC	N/REC
CONSTANT SPEED GOV.	8210-007-01	1196091	00.0	OVERHAULED/EXCHANGE
TORQUE LIMITER	3244862-2	C35432	1180.5	

Engine Airworthiness Directives

PWC 2371(2008-03)

Pratt & Whitney Canada
A United Technologies Company

Pratt & Whitney Canada Corp.
1000, Marie-Victorin
Longueuil, Quebec
Canada J4G 1A1

Engine S/N	PCE - RV0185

Reference	A.D.'s	Sign	Lic. # or Stamp	Date
	No applicable airworthiness directives.	K. PIVIDOR [redacted]	[redacted]	2 4 MAR 2009

Section 5: Record of engine major modifications and repairs, and supplemental Instructions for Continued Airworthiness (ICA)

Date embodied --/--/--	STC/RDA/PDA	Description of changes
24 MAR 2009		**For the list of SBs incorporated at manufacture, see attached Engine Build Record Status Report sheet.**

THE FOLLOWING SE

ENGINE SERIAL NO.

ENGINE MODEL

BUILD SPEC

SERVICE BULLETINS

14377 14380
14396 14397
14413 14416

APPROVED BY :

PRATT & WHITNEY CANADA

ENGINE BUILD RECORD STATUS

THE FOLLOWING SERVICE BULLETINS ARE BASIC TO :

ENGINE SERIAL NO. PCE-RV0185

ENGINE MODEL PT6A-66D

BUILD SPEC 1198

SERVICE BULLETINS

14377	14380	14386	14389	14390	14392	14393	14394	14395
14396	14397	14398	14399	14405	14406	14407	14408	14411
14413	14416							

APPROVED BY : [redacted] K. PIVIDOR

DATE : 2009.03.24

Transport Canada Transports Canada

TP 14182
(Revised 05/2005)

Engine Logbook

POWER SECTION MODULE LOG BOOK

TC1001185
05/2005

Canada

Volume #: 1

Opened on: 24 MAR 2009

ENGINE DETAILS

1. Manufacturer — **Pratt & Whitney Canada Corp.**

2. Type/Model/Series — **E.T.C. E-** 21 **PT6A-** 66D **B/S:** 1198

3. Serial Number — **PS-** RV0185