



Transport  
Canada

Transports  
Canada

TP 14182  
(Revised 05/2005)

# **Engine Logbook**

## **GAS GENERATOR**

## **MODULE LOG BOOK**

TC1001185



05/2005

**Canada**

Volume #: 1

Opened on: 09 MAR 2010

## 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- RV0206

### Other related Transport Canada Publications:

TP 14089B  
TP 14058E/F

### Previous Edition:

TP 3910E, 2nd Edition (Jan. 1987)  
TP 14182E (Dec. 2003)

Printed in Canada.

Please direct your comments, orders and inquiries to:

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330 Sparks Street  
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TP 14182E  
(05/2005)  
TC-1001185  
Catalogue No. T52-4/2-2003E



Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task		Signature	AME ACA/AMO SCA/AMO
09 MAR 2010	0.0	0.0	0	New engine final acceptance test and inhibiting run completed satisfactorily and is in condition for safe operation.	This Gas Generator module is combined with Power Section. S/N: PS- RV0206  NG/VQ 34650 RPM, at 850 SHP / 8VQ  ITT Trim: 15.3 C°  T5 Trim resistance: 61.0 Ohms	R. WEISTRA	
2 JUN 2010	1 <sup>H</sup> 50	0.0	1	Vol d'essai constructeur	SOCATA - DEPARTEMENT QUALITE VERIFICATION et ENTRETIEN STOCKAGE	<b>DAHER-SOCATA</b> SOCATA Agrément de Production FR - 21G - 0027	
8 JUN 2010	3 <sup>H</sup> 10	0.0	2				
9 JUN 2010	4 <sup>H</sup> 25	0.0	3				
				Arrêté présent livret à la SOCATA le 9/6/10 au total de 4 <sup>H</sup> 25 Visa du Département Qualité			
				(Signature) (Stamp)			

2456 Winchester Rd Hgr 14  
Memphis, Tennessee 38116

**Total Air Group**  
CRS #: 21TR987Y

901-396-9707  
901-396-9708 Fax

---

**Airworthiness Release**

N: N86CH      S/N: 543      W/O: MEM5419  
Position: Position 1      TSN: 629.00      Hobbs: 629.00      TT: 629.00      Cycles: 156.00  
                                 CSN: N/A      TSO: N/A      TSI: N/A  
                                      CSO: N/A      CSI: N/A

PT6A-66D      S/N: PCE-RV0206

- \*COMPLIED WITH TBM 850 STANDARD "C" INSPECTION IN REFERENCE TO SOCATA TBM 850 MM 5-20-04.
- \*COMPLIED WITH 600 CHIP DETECTOR TEST IN REF TO TBM 850 MM 79-20-02.
- \*REPLACED BETA BLOCK WITH NEW IAW TBM 850 MM 61-00-00. P/N: A3026.
- \*INSTALLED 2 EA NEW CH34055 IGNITER PLUGS, P/N: CH34055, & GASKETS, P/N: 3010880, IAW PT6A-66D MM 74-20-00.
- \*REMOVED AND REPLACED START/ GENERATOR SCAT HOSE WITH NEW HOSE. P/N: T700G243001110000.
- \*SERVICED ENGINE WITH 2 QTS OF BP2380 OIL.
- \*THIS ENGINE HAS BEEN INSPECTED IN REFERENCE TO SOCATA TBM STANDARD "C" INSPECTION.
- \*GROUND RUN ENGINE OPERATIONAL CHECK SATISFACTORY AT THIS TIME. ENGINE RETURN TO SERVICE. -----END-----

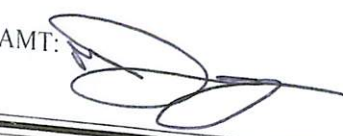
The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

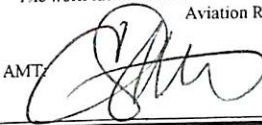
Date: 2/6/15


AMT: (Signature)      Page 1 of 1



Section 1: Record of engine maintenance and elementary work


2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>		
N: N86CH Position: FRONT	S/N: 543 TSN: 1,464.50 CSN: N/A	W/O: MEM9191 Hobbs: 1,464.50 TSO: N/A CSO: N/A
TT: 1,464.50 Cycles: N/A TSI: N/A CSI: N/A		
PT6A-66D S/N: PCE-RV0206 *COMPLIED WITH ENGINE MINOR INSPECTION PER TBM 850 STANDARD "C" INSPECTION IN REFERENCE TO SOCATA TBM850 MM 5-20-04 AND P&W EMM # 3070902 PT6-66D /72-00-00. *REMOVED AND REPLACED LEFT AND RIGHT IGNITERS WITH NEW IGNITERS, P/N: CH34055, AND GASKET P/N: 3010880, IAW P&W EMM #3070902 / 74-20-00. FUNCTION CHECKED NORMAL AT THIS TIME *REMOVED OLD FUEL NOZZLES AND INSTALLED REPAIRED FUEL NOZZLES, P/N: FN1500/FN65, (PRIME TURBINES WO# W0055041) IAW PRATT AND WHITNEY PT6-66D MM 73-11-05. *REMOVED WORN BETA BLOCK. INSTALLED NEW BETA BLOCK P/N: A3026 IAW HARTZELL PROPELLER MANUAL 139 61-00-39. *GROUND RUN ENGINE. ALL CHECKS NORMAL, NO DEFECTS OR LEAKS NOTED AT THIS TIME -----END----- The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. AMT:  Date: 1.27.17 Page 1 of 1		

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>		
N: N86CH Position: FRONT	S/N: 543 TSN: 1,835.20 CSN: N/A	W/O: MEM10382 Hobbs: 1,835.20 TSO: N/A CSO: N/A
TT: 1,835.20 Cycles: N/A TSI: N/A CSI: N/A		
PT6A66D S/N: PCE-RV0206 *C/W ENGINE MINOR INSPECTION IN REFERENCE TO P&W PT6A66D EMM 72-00-00 *C/W B INSPECTION IAW TBM850 AMM 05-20-03 *REMOVED WORN AND INSTALLED NEW BETA BLOCK P/N: CA3026 IAW SOCATA850 MM 30-60-00 *GROUND RUN ENGINE, OPERATIONAL CHECKS SATISFACTORY AT THIS TIME AND NO LEAKS NOTED FROM ENGINE AREA AT THIS TIME ENGINE OK FOR RETURN TO SERVICE -----END----- The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. AMT:  Date: 8 JAN 2018 Page 1 of 1		

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>		
N: N86CH Position: FRONT	S/N: 543 TSN: 2,036.00 CSN: N/A	W/O: MEM10971 Hobbs: 2,036.00 TSO: N/A CSO: N/A
TT: 2,036.00 Cycles: N/A TSI: N/A CSI: N/A		
PT6A66D S/N: PCE-RV0206 *COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&W 72-00-00 *COMPLIED WITH 100 HR INSPECTION, ENGINE PORTION OF A+ANNUAL INSPECTION IAW TBM850 MM 05-20-02 & 14 CFR 43 APPENDIX "D" *COMPLIED BORESCOPE INSPECTION ON ENGINE IAW P&W PT6-66D EMM 72-20-00. NO DEFECTS NOTED AT THIS TIME *INSTALLED REPAIRED NOZZLES FROM HERITAGE TURBINES, WO# MAINT-7650, DATED 26/APRIL/2018 INLET ADAPTER ASSY PART NUMBER: 3119856-01 & ADAPTER ASSY PART NUMBER: 3119855-01 WORK PERFORMED IAW P&W PT6A-66D EMM 73-11-05. *GROUND RUN ENGINE, OPERATIONAL CHECKS SATISFACTORY AT THIS TIME AND NO LEAKS NOTED FROM ENGINE AREA AT THIS TIME ENGINE OK FOR RETURN TO SERVICE -----END----- The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. AMT:  Date: 2-2-18 Page 1 of 1		



# Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
<div> <div> 2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116 </div> <div> <b>Total Air Group</b>  CRS #: 21TR987Y  901-396-9707  901-396-9708 Fax </div> </div> <div> <b>Airworthiness Release</b> </div> <div> <div> N: N86CH Position: FRONT </div> <div> S/N: 543 TSN: 2,228.30 CSN: N/A </div> <div> W/O: MEM11571 Hobbs: 2,228.30 TSO: N/A CSO: N/A </div> <div> TT: 2,228.30 TSI: N/A CSI: N/A </div> <div> Cycles: N/A </div> </div> <div> PT6A-66D S/N: PCE-RV0206  *COMPLIED WITH "C" CHECK INSPECTION IN REFERENCE TO TBM 850 MM 05-20-04 &amp; P&amp;W MANUAL  PT6A-66D 72-00-00.  *REMOVED OIL FILTER &amp; INSTALLED NEW OIL FILTER IAW PWC ENGINE MANUAL 79-20-02. PART  NUMBER OFF/ON: 1761864.  *INSTALLED NEW P3 AIR FILTER IN REFERENCE TO PT6A-66D MM 73-10-07. PART NUMBER OFF/ON:  WF336238  *GROUND RUN ENGINE. OPERATIONAL CHECKS SATISFACTORY AND NO LEAKS NOTED IN ENGINE AREA  AT THIS TIME. ENGINE RETURN TO SERVICE--END--  The work identified above under the w/o number was performed and inspected in accordance with current Federal  Aviation Regulations and was found airworthy for return to service.  AMT:   Date: Feb 4, 2019  Page 1 of 1 </div>				

Model PT6A-66D  
S/N # RV0206  
Reg. # N86CH  
CSN 2061

Atlanta Turbine Management  
500 Briscoe Blvd  
Lawrenceville, Georgia 30046

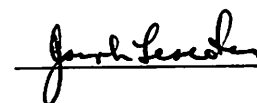
Date: 11/06/19  
TSN 2433.3  
Hobbs 2061  
Invoice 7458

MO  
MO

- ♦ C/W an A+ Annual Inspection IAW TBM M/M R18, and 14 CFR Parts 43 Appendix D IAW 91.409(a)(1).
- ♦ All A.D.'s in compliance through Bi weekly 2019-22.
- ♦ Installed a new oil filter P/N 1761864.
- ♦ Split engine at C flange for A hot section inspection, sent to Dallas airmotive for inspection by under DAM WO # RPR53454. Re assembled Hot section IAW PT6A M/M.
- ♦ CT Disc P/N 3053740-01 S/N A002P204.
- ♦ Small exit duct 3123302-01, S/N RWA73C684.
- ♦ Outer combustion liner 3055663-01 S/N FTA007A700.
- ♦ Inner combustion liner 3116790-01, S/N RWA75C241.
- ♦ Fuel nozzle set cleaned and flow checked by DAM.
- ♦ Replaced one T5 probe P/N 3116132-01.
- ♦ Performed a engine compressor wash IAW PT6 M/M.
- ♦ C/W 12 month inlet case corrosion inspection IAW SIL PT6A-213, and treatment of case with corrosion X compound.
- ♦ C/W 1000 hour scavenge pump filter screen inspection, no defects noted.
- ♦ Serviced with 5 qts. of Aero shell 560 oil.
- ♦ Ground ran and leak checks good.

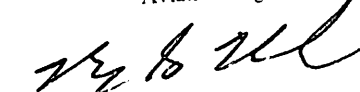
This aircraft and or component identified above was repaired and inspected in accordance with current federal air regulations and was found to be airworthy for return to service. Pertinent details are found on file under invoice number.

I certify this Engine has been Inspected IAW an Annual inspection and has been found to be in Airworthy condition.



A&P1387457851A

**TBM**  
SERVICE CENTER

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116 (21TR987Y)		<b>Total Air Group</b> CRS #: 21TR987Y		901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>				
N: N86CH Position: FRONT		S/N: 543 TSN: 3,124.50 CSN: N/A		W/O: MEM13761 Hobbs: 2,752.20 TSO: N/A CSO: N/A
				TT: 2,752.20 TSI: N/A CSI: N/A
Cycles: N/A				
ENGINE PT6A-66D S/N PCE-RV0206 *COMPLIED WITH A+ INSPECTION/ ANNUAL IAW TBM 850 MM 5-20-02. ENGINE RUNS SUCCESSFUL. NO LEAKS NOTED. *REPLACED FASTENER ON LOWER ENG SCREEN COVER IAW STANDARD PRACTICES NO FURTHER DEFECTS NOTED. --END-- The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. AMT:  Date: 1-27-22 Page 1 of 1				

Section 1: Record of engine maintenance and elementary work

Date  
--/--

2456 Winchester Rd.  
Hangar 14  
Memphis, Tennessee 38116  
United States

**FTair LLC 145 Repair Station**

901-396-9707

Fax

CRS #: 21TR987Y

**Airworthiness Release**

N: N86CH  
Position: FWD

S/N: 543  
TSN: N/A  
CSN: N/A

W/O: MEM14619  
Hobbs: 2,869.50  
TSO: N/A  
CSO: N/A

TT: 2,869.50 Cycles: N/A  
TSI: N/A  
CSI: N/A

ENGINE S/N PCE-RV0206

COMPLIED WITH B+ INSPECTION/ ANNUAL IAW TBM850 MM 5-20-02. A/C OK FOR SERVICE. ENGINE RUNS  
--END--

The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

AMT:

Date: 11-21-22

Page 1 of 1

2456 Winchester Rd.  
Hangar 14  
Memphis, Tennessee 38116  
United States

**FTair LLC 145 Repair Station**

901-396-9707

Fax

CRS #: 21TR987Y

**Airworthiness Release**

N: N86CH  
Position: FRONT

S/N: 543  
TSN: 3,099.40  
CSN: N/A

W/O: MEM16939  
Hobbs: 3,099.40  
TSO: N/A  
CSO: N/A

TT: 3,099.40 Cycles: N/A  
TSI: N/A  
CSI: N/A

S/N PCE-RV0206

\*COMPLIED WITH FUEL NOZZLE FLOW CHECK IAW PT6A-66D MM 73-11-05. LEAK CHECK GOOD.  
\*COMPLIED WITH A ENGINE BORESCOPE INSPECTION IAW PW PT6A-66D MM 72-00-00.  
\*R&R STARTER GEN IAW TBM850 AMM 24-30-03. PN ON 8012F SN ON 195.  
\*COMPLIED WITH A+/ ANNUAL / 200 HOUR ENGINE MINOR INSPECTION IAW TBM MM 05-20-02  
--END--

The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

AMT:

Date: 1-2-24

Page 1 of 1

Signature

AME  
ACA/AMO  
SCA/AMO





Transport  
Canada

Transports  
Canada

TP 14182  
(Revised 05/2005)

# **Engine Logbook**

## **POWER SECTION**

## **MODULE LOG BOOK**

TC1001185



05/2005

**Canada**

Volume #: 1

Opened on: 09 MAR 2010

## 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- RVO206

Other related Transport Canada Publications:

TP 14089B  
TP 14058E/F

Previous Edition:

TP 3910E, 2nd Edition (Jan. 1987)  
TP 14182E (Dec. 2003)

Printed in Canada.

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Tower C, 5th Floor  
330 Sparks Street  
Ottawa, ON K1A 0N8

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TP 14182E  
(05/2005)  
TC-1001185  
Catalogue No. T52-4/2-2003E



# Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
09 MAR 2010	0.0	0.0	0	New engine final acceptance test completed satisfactorily and is in condition for safe operation.
2 JUIN 2010	1 <sup>h</sup> 50	0.0	1	Vol d'essai constructeur
8 JUIN 2010	3 <sup>h</sup> 10	0.0	2	
9 JUIN 2010	4 <sup>h</sup> 25	0.0	3	
Arrêté présent livret à la SOCATA le 9/6/10 au total de 4 <sup>h</sup> 25 Visa du Département Qualité				

This Power Section module is combined with Gas Generator.

S/N: PCE- RV0206

NG/NO 34650 RPM, at 850 SHP / 8V6

ITT Trim: 15.3 C°

T5 Trim resistance: 61.0 Ohms

Signature

AME  
ACA/AMO  
SCA/AMO

R. WEISTRA

1119

Robert Weistra

TC 4-58  
NO 123

SOCATA - DEPARTEMENT QUALITE  
VERIFICATION et ENTRETIEN STOCKAGE

**DAHER-SOCATA**  
**SOCATA**  
Agrément de Production  
FR - 21G - 0027

**DAHER-SOCATA**

SOCATA North America, Inc. North Perry Airport 7501 S. Airport Road, Pembroke Pines, FL 33023 / FAA CRS # URZR891L / EASA.145.5152

Date January 25, 2011

Aircraft Type

TBM 850

SN 543

Registration N 88CD

Meter Time 108.9

Hobbs

T. T. 108.9

W/O No. 4460

Eng. PT6A-66D S/N. RV0206 TSN. 108.9.

Performed first 100h. Inspection per TBM 850 Maintenance manual chapter 05-20-01/05-20-02. Performed preliminary F.O.D. borescope inspection of first stage compressor blades, no defect. Performed ultrasonic cleaning of P3 air filter, inspected and re-installed with new O-rings. Removed, cleaned, inspected and re-installed oil filter with new O-rings. Performed compressor/turbine wash IAW Pratt & Whitney maintenance manual chapter 71-00-00. Installed new L/H igniter gasket P/N 3010880. Performed engine run to determine satisfactory performance IAW the manufacturer's recommendations and leak checked, found satisfactory and no leak noted.

The aircraft Airframe, Engine, Propeller, Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulation Of 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. # 4460 Date: 1/25/2011 Signature: *K. Pham-Viet* CRS # URZR891L / EASA.145.5152

I certify that this Aircraft Engine/Propeller Appliance has been inspected/ repaired in accordance with First 100h.  
inspection per Socata M.M. & Far 43 and determine to be in Airworthy condition. Pertinent details on file under W.O. # 4460 and copy given to customer.  
Acrft. T.T. 108.9  
Engine T.T. 108.9  
Prop. T.T. 108.9  
Signature *K. Pham-Viet* Date 01.25.2011  
CRS # URZR891L EASA.145.5152



# Section 1: Record of engine maintenance and elementary work

Model PT6A-66D  
S/N # PCE-RV0206  
Reg. # N88CD  
CSN 104

Atlanta Turbine Management  
500 Briscoe Blvd  
Lawrenceville, Georgia 30046

Date: 6/16/11  
TSN 134.6  
Hobbs 134.6  
Invoice 6397

- ◆ C/W 100 hour/Annual inspection IAW Socata 850 M/M and CFR's parts 43 and 91 appendix D.
- ◆ Ground runs, leak checks good.

This aircraft and or component identified above was repaired and inspected in accordance with current federal air regulations and was found to be airworthy for return to service. Pertinent details are found on file under invoice number.

I certify this Engine has been Inspected IAW an Annual inspection and has been found to be in Airworthy condition.

 A&P138745785IA

Authorized Service Center  DAHER-SOCATA

Model PT6A-66D  
S/N # PCE-RV0206  
Reg. # N88CD  
CSN 172

Atlanta Turbine Management  
500 Briscoe Blvd  
Lawrenceville, Georgia 30046

Date: 04/26/12  
TSN 200.7  
Hobbs 200.7  
Invoice 6527

- ◆ C/W 100 hour/Annual inspection IAW Socata 850 M/M and CFR's parts 43 and 91.
- ◆ Ground runs, leak checks good.

This aircraft and or component identified above was repaired and inspected in accordance with current federal air regulations and was found to be airworthy for return to service. Pertinent details are found on file under invoice number.

I certify this Engine has been Inspected IAW an Annual inspection and has been found to be in Airworthy condition.

 A&P138745785IA

Authorized Service Center  DAHER-SOCATA

Model PT6A-66D  
S/N # PCE-RV0206  
Reg. # N88CD  
CSN 249

Atlanta Turbine Management  
500 Briscoe Blvd  
Lawrenceville, Georgia 30046

Date: 05/06/13  
TSN 286.3  
Hobbs 286.3  
Invoice 6630

- ◆ C/W B+/Annual inspection IAW Socata 850 M/M and CFR's parts 43 and 91 appendix D.
- ◆ This engine is now on Socata 200 hour inspection interval IAW Socata NMP R8.
- ◆ C/W Socata SB 70-132-72R1 by Installation of Chip Plug harness OPT70K14200. Functional checks good.
- ◆ Ground runs, leak checks good.

This aircraft and or component identified above was repaired and inspected in accordance with current federal air regulations and was found to be airworthy for return to service. Pertinent details are found on file under invoice number.

I certify this Engine has been Inspected IAW an Annual inspection and has been found to be in Airworthy condition.

 A&P138745785IA

Authorized Service Center  DAHER-SOCATA

Model PT6A-66D  
S/N # PCE-RV0206  
Reg. # N86CH  
CSN 328

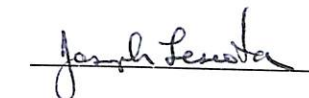
Atlanta Turbine Management  
500 Briscoe Blvd  
Lawrenceville, Georgia 30046


Date: 06/04/14  
TSN 417.4  
Hobbs 417.4  
Invoice 6818

- ◆ C/W A+/Annual inspection IAW Socata 850 M/M and CFR's parts 43 and 91 appendix D.
- ◆ C/W F.O.D inspection of first stage compressor, found in good condition.
- ◆ C/W 400 hour fuel nozzle flow check. Found 5 nozzle tips streaking. Out sourced tip replacement by Pratt and Whitney Atlanta under WO# 182639. Installed repaired Nozzle and adapter assy. in positions 1,4,11,9,7. Also Replaced two fuel tubes P/N 3011155 as needed.
- ◆ Performed Bore scope inspection of Hot section in conjunction with 400 hr. flow check of fuel Nozzles.
- ◆ S.B. 14357R3 is not applicable to current set of fuel nozzles assy.
- ◆ C/W 200 hour compressor wash IAW PT6A M/M.

This aircraft and or component identified above was repaired and inspected in accordance with current federal air regulations and was found to be airworthy for return to service. Pertinent details are found on file under invoice number.

I certify this Engine has been Inspected IAW an Annual inspection and has been found to be in Airworthy condition.

 A&P138745785IA

Authorized Service Center  DAHER-SOCATA

 DAHER-SOCATA

FAA CRS # URZR891L / EASA.145.5152

SOCATA North America, Inc.  
7501 S. Airport Road  
Pembroke Pines, FL 33023

Date : 07/18/2014

Serial Number : 543

Registration : N86CH

Aircraft type : TBM 850


Meter Time: 429.6 Hobbs

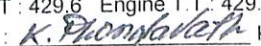
Time Since New : 429.6

Cycle Since New : 383

Work Order : 5198


- Eng. PT6A-66D S/N RV0206 TSN. 429.6 CSN. 383.
- Performed a Standard Program - A Inspection IAW TBM Maintenance manual chapter 05-20-02.
- Performed preliminary F.O.D. borescope inspection of engine first stage compressor blades, no defect found.
- Performed ultrasonic cleaning of P3 filter, inspected and re-installed with new O-rings.
- Cleaned, inspected and re-installed oil filter with new O-rings.
- C/W P&WC SB A14410R2 Inspected spark igniters, found N/A by igniters P/N.(CH34055 installed).
- C/W P&WC SB 14473R2 Perform a one time inspection of the torque limiter P/N 3244862-2/3055731-01 A, S/N C35450, no defect noted.
- C/W P&WC SB 14474R1 Performed an inspection of the oil condition for discoloration and carbon, found no carbon particle and verified engine oil sample color was in Category 3.
- Performed compressor, turbine desalination wash IAW Pratt & Whitney maintenance manual chapter 71-00-00.
- Installed new igniter gaskets P/N 3010880.
- Performed engine run to determine satisfactory performance IAW the manufacturer's recommendations and leak checked, found satisfactory.


The aircraft Airframe, Engine, Propeller, Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulation Of 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. # 5198, Date : 07/18/2014 Signature:  Kam Phongsavath  
CRS # URZR891L / EASA. 145.5152


I certify that this Engine has been inspected/repared in accordance with "A" inspection per Socata MM & Far 43 and determine to be in Airworthy condition. Pertinent details on file under W.O # 5198 and copy given to customer.  
Aircraft T.T : 429.6 Engine T.T : 429.6 Prop T.T : 429.6  
Signature :  Kam Phongsavath  
Date : 07/18/2014 CRS # URZR891L / EASA 145.5152




# Section 1: Record of engine maintenance and elementary work

Date --/--/--	2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax	task
<b>Airworthiness Release</b>				
N: N86CH Position: Position 1	S/N: 543 TSN: 629.00 CSN: N/A	W/O: MEM5419 Hobbs: 629.00 TSO: N/A CSO: N/A	TT: 629.00 TSI: N/A CSI: N/A	Cycles: 156.00
<p>PT6A-66D S/N: PCE-RV0206</p> <p>*COMPLIED WITH TBM 850 STANDARD "C" INSPECTION IN REFERENCE TO SOCATA TBM 850 MM 5-20-04.</p> <p>*COMPLIED WITH 600 CHIP DETECTOR TEST IN REF TO TBM 850 MM 79-20-02.</p> <p>*REPLACED BETA BLOCK WITH NEW IAW TBM 850 MM 61-00-00. P/N: A3026.</p> <p>*INSTALLED 2 EA NEW CH34055 IGNITER PLUGS, P/N: CH34055, &amp; GASKETS, P/N: 3010880, IAW PT6A-66D MM 74-20-00.</p> <p>*REMOVED AND REPLACED START/ GENERATOR SCAT HOSE WITH NEW HOSE. P/N: T700G243001110000.</p> <p>*SERVICED ENGINE WITH 2 QTS OF BP2380 OIL.</p> <p>*THIS ENGINE HAS BEEN INSPECTED IN REFERENCE TO SOCATA TBM STANDARD "C" INSPECTION. GROUND RUN ENGINE OPERATIONAL CHECK SATISFACTORY AT THIS TIME. ENGINE RETURN TO SERVICE. -----END-----</p> <p>The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.</p> <p>AMT: </p> <p>Date: 2/6/15</p> <p>Page 1 of 1</p>				

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>		
N: N86CH Position: Position 1	S/N: 543 TSN: 844.60 CSN: N/A	W/O: MEM6618 Hobbs: 844.60 TSO: N/A CSO: N/A
<p>PT6A-66D S/N: PCE-RV0206</p> <p>*COMPLIED WITH ENGINE PORTION OF A+/ANNUAL INSPECTION IAW TBM 850 MM 05-20-02 AND 12 MONTH SPECIAL INSPECTIONS I/A/W TBM 850 MM 05-20-05.</p> <p>*COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&amp;W 72-00-00.</p> <p>*INSTALLED NEW AIR CONDITIONER COMPRESSOR, P/N: N6046297253 S/N: 1377-00415, BELT, P/N: 20286-30, &amp; RECEIVER/DRYER, P/N: 6046297266, WITH NEW IN REFERENCE TO TBM 850 MM 21-55-01.</p> <p>*GROUND RUN ENGINE, OPERATIONAL CHECK SATISFACTORY AT THIS TIME. NO OIL OR FUEL LEAKS NOTED AT THIS TIME IN THE ENGINE AREA. ENGINE OK FOR RETURN TO SERVICE. -----END-----</p> <p>The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.</p> <p>AMT: </p> <p>Date: 8/14/15</p> <p>Page 1 of 1</p>		

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>		
N: N86CH Position: Position 1	S/N: 543 TSN: 1,055.10 CSN: N/A	W/O: MEM7908 Hobbs: 1,055.10 TSO: N/A CSO: N/A
<p>PT6A-66D S/N: PCE-RV0206</p> <p>*COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&amp;W 72-00-00.</p> <p>*COMPLIED WITH B INSPECTION WITH NO DEFECTS NOTED.</p> <p>*REMOVED FUEL NOZZLES FOR CLEAN / FLOW CHECK. INSTALLED REPAIRED NOZZLE KIT FN1500 WITH FN65 NOZZLE GASKET KIT FROM PRIMETURBINES, WO053382. WORK PERFORMED IAW P&amp;W EMM 73-11-05. PERFORMED ENGINE RUN, OPS CHECK AND LEAK CHECK GOOD AT THIS TIME.</p> <p>*BORESCOPE ENGINE IAW P&amp;W PT6A-66D EMM 72-20-00. NO DEFECTS NOTED AT THIS TIME.</p> <p>*REMOVED AND REPLACED P3 FILTER P/N: WF336238 WITH NEW IAW P&amp;W PT6A-66D EMM 73-10-07. NO DEFECTS NOTED AT THIS TIME.</p> <p>*REMOVED AND REPLACED ENGINE OIL FILTER P/N: 1761864 IAW P&amp;W PT6A-66D EMM 79-20-02. NO DEFECTS NOTED AT THIS TIME. PERFORMED ENGINE RUN, OPS CHECK AND LEAK CHECK GOOD AT THIS TIME.</p> <p>*PERFORMED 600 HR INSPECTION ON FUEL PUMP INLET SCREEN. CLEANED SCREEN AND REINSTALLED SCREEN IAW P&amp;W PT6A-66D EMM 73-10-02. NO DEFECTS NOTED AT THIS TIME.</p> <p>*INSPECTED AGB SCAVENGE PUMP INLET SCREEN IAW P&amp;W PT6A-66D EMM 72-60-00. NO DEFECTS NOTED AT THIS TIME.</p> <p>*PERFORMED SOAP SAMPLE AND SENT OF FOR ANALYSES.</p> <p>-----END-----</p> <p>The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.</p> <p>AMT: </p> <p>Date: 12 FEB 2016</p> <p>Page 1 of 1</p>		

2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116	<b>Total Air Group</b> CRS #: 21TR987Y	901-396-9707 901-396-9708 Fax
<b>Airworthiness Release</b>		
N: N86CH Position: Position 1	S/N: 543 TSN: 1,260.70 CSN: N/A	W/O: MEM8640 Hobbs: 1,260.70 TSO: N/A CSO: N/A
<p>PT6A-66D S/N: PCE-RV0206</p> <p>*COMPLIED WITH ENGINE PORTION OF A+/ANNUAL INSPECTION IAW TBM 850 MM 05-20-02 AND 12 MONTH SPECIAL INSPECTIONS I/A/W TBM 850 MM 05-20-05.</p> <p>*COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&amp;W 72-00-00.</p> <p>*REMOVED AGB /RGB CHIP DETECTORS, PERFORMED CONTINUITY CHECK ( 100 HR ) /BRIDGE CHECK (600 HR ). IAW P/W EMM 79-20-02. NO DEFECTS NOTED AT THIS TIME.</p> <p>*COMPLIED WITH 600 HR FUEL PUMP INLET SCREEN CHECK AND CLEAN IAW P/W EMM 73-10-02 PARA 7 SECTION B AND PARA 8 SECTION B. NO DEFECTS NOTED AT THIS TIME.</p> <p>*PERFORMED ENGINE COMPRESSOR WASH IAW TBM 850 MM 71-00-06.</p> <p>*C/W SB 1400IR18 BY ACCOMPLISHING THE FOLLOWING: DRAINED OIL PER P&amp;W EMM. SERVICED WITH AS 560 HTP OIL. PER SB 1400IR18. FABRICATED NEW ENGINE SERVICING PLACARD. NO LEAKS NOTED AT THIS TIME.</p> <p>*REMOVED STARTER/GENERATOR P/N: 8012F, S/N: 599 AND INSTALLED OVERHAULED STARTER/GENERATOR P/N: 8012F, S/N: 19 IAW TBM 850 MM 24-30-03.</p> <p>The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.</p> <p>AMT: </p> <p>Date: 21 JUL 2016</p> <p>Page 1 of 1</p>		



Section 1: Record of engine maintenance and elementary work

2456 Winchester Rd Hgr 14  
Memphis, Tennessee 38116

# Total Air Group

CRS #: 21TR987Y

901-396-9707  
901-396-9708 Fax

## Airworthiness Release

N: N86CH S/N: 543 W/O: MEM9191  
Position: FRONT TSN: 1,464.50 Hobbs: 1,464.50 TT: 1,464.50 Cycles: N/A  
CSN: N/A TSO: N/A TSI: N/A  
CSO: N/A CSI: N/A

PT6A-66D S/N: PCE-RV0206  
\*COMPLIED WITH ENGINE MINOR INSPECTION PER TBM 850 STANDARD "C" INSPECTION IN REFERENCE TO  
SOCATA TBM850 MM 5-20-04 AND P&W EMM # 3070902 PT6-66D /72-00-00.  
\*REMOVED AND REPLACED LEFT AND RIGHT IGNITERS WITH NEW IGNITERS, P/N: CH34055, AND GASKETS  
P/N: 3010880, IAW P&W EMM #3070902 / 74-20-00. FUNCTION CHECKED NORMAL AT THIS TIME  
\*REMOVED OLD FUEL NOZZLES AND INSTALLED REPAIRED FUEL NOZZLES, P/N: FN1500/FN65, (PRIME  
TURBINES W/O# W0055041) IAW PRATT AND WHITNEY PT6-66D MM 73-11-05.  
\*REMOVED WORN BETA BLOCK. INSTALLED NEW BETA BLOCK P/N: A3026 IAW HARTZELL PROPELLER  
MANUAL 139 61-00-39.  
\*GROUND RUN ENGINE. ALL CHECKS NORMAL, NO DEFECTS OR LEAKS NOTED AT THIS TIME  
-----END-----

The work identified above under the w/o number was performed and inspected in accordance with current Federal  
Aviation Regulations and was found airworthy for return to service.

AMT: 

Date: 1.27.17

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2456 Winchester Rd Hgr 14  
Memphis, Tennessee 38116

# Total Air Group

CRS #: 21TR987Y

901-396-9707  
901-396-9708 Fax

## Airworthiness Release

N: N86CH S/N: 543 W/O: MEM9773  
Position: FRONT TSN: 1,645.60 Hobbs: 1,645.60 TT: 1,645.60 Cycles: N/A  
CSN: N/A TSO: N/A TSI: N/A  
CSO: N/A CSI: N/A

PT6A66D S/N: PCE-RV0206  
\*COMPLIED WITH 100 HR INSPECTION, ENGINE PORTION OF A/ANNUAL INSPECTION IAW TBM850 MM  
05-20-02.  
\*C/W BORESCOPE INSPECTION ON ENGINE IAW P&W PT6-66D EMM 72-20-00. NO DEFECTS NOTED AT THIS  
TIME.  
\*COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&W 72-00-00.  
\*GROUND RUN ENGINE, OPERATIONAL CHECKS SATISFACTORY AT THIS TIME AND NO LEAKS NOTED  
FROM ENGINE AREA AT THIS TIME ENGINE OK FOR RETURN TO SERVICE.-----END-----

The work identified above under the w/o number was performed and inspected in accordance with current Federal  
Aviation Regulations and was found airworthy for return to service.

AMT: 

Date: 22 JUL 2017

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Signature

AME  
ACA/AMO  
SCA/AMO

2456 Winchester Rd Hgr 14  
Memphis, Tennessee 38116

# Total Air Group

CRS #: 21TR987Y

901-396-9707  
901-396-9708 Fax

## Airworthiness Release

N: N86CH S/N: 543 W/O: MEM10382  
Position: FRONT TSN: 1,835.20 Hobbs: 1,835.20 TT: 1,835.20 Cycles: N/A  
CSN: N/A TSO: N/A TSI: N/A  
CSO: N/A CSI: N/A

PT6A66D S/N: PCE-RV0206  
\*COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&W PT6A66D EMM 72-00-00  
\*C/W B INSPECTION IAW TBM850 AMM 05-20-03  
\*REMOVED WORN AND INSTALLED NEW BETA BLOCK P/N: CA3026 IAW SOCATA850 MM 30-60-00  
\*GROUND RUN ENGINE, OPERATIONAL CHECKS SATISFACTORY AT THIS TIME AND NO LEAKS NOTED  
FROM ENGINE AREA AT THIS TIME ENGINE OK FOR RETURN TO SERVICE.-----END-----

The work identified above under the w/o number was performed and inspected in accordance with current Federal  
Aviation Regulations and was found airworthy for return to service.

AMT: 

Date: 8 JAN 2018

Page 1 of 1

2456 Winchester Rd Hgr 14  
Memphis, Tennessee 38116

# Total Air Group

CRS #: 21TR987Y

901-396-9707  
901-396-9708 Fax

## Airworthiness Release

N: N86CH S/N: 543 W/O: MEM10971  
Position: FRONT TSN: 2,036.00 Hobbs: 2,036.00 TT: 2,036.00 Cycles: N/A  
CSN: N/A TSO: N/A TSI: N/A  
CSO: N/A CSI: N/A

PT6A66D S/N: PCE-RV0206  
\*COMPLIED WITH ENGINE MINOR INSPECTION IN REFERENCE TO P&W 72-00-00.  
\*COMPLIED WITH 100 HR INSPECTION, ENGINE PORTION OF A/ANNUAL INSPECTION IAW TBM850 MM  
05-20-02 & 14 CFR 43 APPENDIX "D"  
\*COMPLIED BORESCOPE INSPECTION ON ENGINE IAW P&W PT6-66D EMM 72-20-00. NO DEFECTS NOTED AT  
THIS TIME  
\*INSTALLED REPAIRED NOZZLES FROM HERITAGE TURBINES, W/O# MAINT-7650, DATED 26/APRIL/2018.  
INLET ADAPTER ASSY PART NUMBER: 3119856-01 & ADAPTER ASSY PART NUMBER: 3119855-01 WORK  
PERFORMED IAW P&W PT-6A-66D EMM 73-11-05.  
\*GROUND RUN ENGINE, OPERATIONAL CHECKS SATISFACTORY AT THIS TIME AND NO LEAKS NOTED  
FROM ENGINE AREA AT THIS TIME ENGINE OK FOR RETURN TO SERVICE.-----END-----

The work identified above under the w/o number was performed and inspected in accordance with current Federal  
Aviation Regulations and was found airworthy for return to service.


AMT: 

Date: 27-18

Page 1 of 1



### Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
<div><div>2456 Winchester Rd Hgr 14 Memphis, Tennessee 38116</div><div><div>Total Air Group</div><div>CRS #: 21TR987Y</div></div><div>901-396-9707 901-396-9708 Fax</div></div> <div><div>Airworthiness Release</div><div><div>N: N86CH Position: FRONT</div><div>S/N: 543 TSN: 2,228.30 CSN: N/A</div><div>W/O: MEM11571 Hobbs: 2,228.30 TSO: N/A CSO: N/A</div><div>TT: 2,228.30 TSI: N/A CSI: N/A</div><div>Cycles: N/A</div></div><div><div>PT6A-66D *COMPLIED WITH "C" CHECK INSPECTION IN REFERENCE TO TBM 850 MM 05-20-04 &amp; P&amp;W MANUAL PT6A-66D 72-00-00. *REMOVED OIL FILTER &amp; INSTALLED NEW OIL FILTER IAW PWC ENGINE MANUAL 79-20-02. PART NUMBER OFF/ON: 1761864. *INSTALLED NEW P3 AIR FILTER IN REFERENCE TO PT6A-66D MM 73-10-07. PART NUMBER OFF/ON: WF336238 *GROUND RUN ENGINE, OPERATIONAL CHECKS SATISFACTORY AND NO LEAKS NOTED IN ENGINE AREA AT THIS TIME . ENGINE RETURN TO SERVICE -----END-----</div><div><div>The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service</div><div>AMT: </div><div>Date: Feb 4, 2019</div></div><div>Page 1 of 1</div></div></div>				

Model	<u>PT6A-66D</u>
S/N #	<u>RV0206</u>
Reg. #	<u>N86CH</u>
CSN	<u>2061</u>

**Atlanta Turbine Management**  
**500 Briscoe Blvd**  
**Lawrenceville, Georgia 30046**

Date: 11/06/19  
TSN 2433.3  
Hobbs 2061  
Invoice 7458

- ◆ C/W an A+ Annual Inspection IAW TBM M/M R18, and 14 CFR Parts 43 Appendix D IAW 91.409(a)(1).
- ◆ All A.D.'s in compliance through Bi weekly 2019-22.
- ◆ Installed a new oil filter P/N 1761864.
- ◆ Split engine at C flange for A hot section inspection, sent to Dallas airmotive for inspection by under DAM WO # RPR53454. Re assembled Hot section IAW PT6A M/M.
- ◆ CT Disc P/N 3053740-01 S/N A002P204.
- ◆ Small exit duct 3123302-01, S/N RWA73C684.
- ◆ Outer combustion liner 3055663-01 S/N FTA007A700.
- ◆ Inner combustion liner 3116790-01, S/N RWA75C241.
- ◆ Fuel nozzle set cleaned and flow checked by DAM.
- ◆ Replaced one T5 probe P/N 3116132-01.
- ◆ Performed a engine compressor wash IAW PT6 M/M.
- ◆ C/W 12 month inlet case corrosion inspection IAW SIL PT6A-213, and treatment of case with corrosion X compound.
- ◆ C/W 1000 hour scavenge pump filter screen inspection, no defects noted.
- ◆ Serviced with 5 qts. of Aero shell 560 oil.
- ◆ Ground ran and leak checks good.

This aircraft and or component identified above was repaired and inspected in accordance with current federal air regulations and was found to be airworthy for return to service. Pertinent details are found on file under invoice number.

I certify this **Engine** has been Inspected IAW an **Annual inspection** and has been found to be in Airworthy condition.

Joseph Lescote A&P138745785IA

**TBM**  
SERVICE CENTER

2456 Winchester Rd Hgr 14  
Memphis, Tennessee 38116  
(21TR987Y)

**Total Air Group**  
CRS #: 21TR987Y

901-396-9707  
901-396-9708 Fax

**Airworthiness Release**

N: N86CH	S/N: 543	W/O: MEM13068	TT: 2,621.20	Cycles: N/A
Position: FRONT	TSN: N/A	TSO: N/A	TSI: N/A	
	CSN: N/A	CSO: N/A	CSI: N/A	

COMPLIED WITH 100 HR INSPECTION, ENGINE PORTION OF B+/ANNUAL INSPECTION IAW TBM 850 AMM 05-20-02 & 14 CFR 43 APPENDIX 'D'. NO DEFECT OR LEAKS WERE FOUND AT THIS TIME.

The work identified above under the w/o number was performed and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

AMT: You Date: 1-14-21

Page 1 of 1