



Transport
Canada

Transports
Canada

TP 14182
(Revised 05/2005)

Engine Logbook

POWER SECTION MODULE LOG BOOK

TC1001185



05/2005

N129NX

Canada

ENGINE TECHNICAL RECORD

INSTRUCTIONS FOR USE

Volume #: _____ / _____

Opened on: 29 JAN 2009

General

The engine logbook is not for the permanent technical record for the engine described on page 1. Only information that is directly applicable to the engine should be shown. Information relating to the airframe, nacelles, or other components having their own records or reports, should be entered into those records. Entries may be made either by writing directly in the log pages, or by completion of separate typed reports which are then passed, or otherwise permanently attached, to the applicable sections of the logbook. The regulatory requirements for permanent technical records are contained in Section 43 of Subpart 43B of the Canadian Aviation Regulations (CARs).

Users may adopt different date formats to conform to local conventions. Upon registering a new page, enter an example of the date format to be used in the space provided at the top of each page below. For example, enter "dd/mm/yy" if date will be entered in the sequence "day/month/year" and the last part of the year. All date entries on that page must then conform to the format indicated. When an entry takes up more than one row, draw a line through it if a full entry of "No effect" is to prevent the entry of unrelated information.

ENGINE DETAILS

Manufacturers may be recorded directly in the log, together with the applicable manufacturer number, or it may be first recorded and certified in the aircraft journey log, and then transcribed into this log as described in paragraph 1.1 of the Canadian Aviation Regulations (CARs).

1. Manufacturer _____

PRATT & WHITNEY CANADA CORP.

2. Type/Model/Series _____

PT6 A-67P BUILD SPEC # 1226

3. Serial Number _____

PS- RY0131

Signature

AME
ACA/AMO
SCA/AMO

This Power Section module is combined
with Gas Generator S/N: PCE- RY0131

NG/√0 35850Rpm, at 1200Shp/δ√0

ITT Trim: 0.0 C°

T5 Trim resistance: ∞ Ohms

CLAUDE AUGER



GROUND RUN COMPLETED
SATISFACTORILY.

QUALITY INSPECTION
PILATUS AIRCRAFT LTD
CH-6370 STANS (SWITZERLAND)

ENGINE OIL USED: BP Turbo Oil 2380



201 Kelner Place
Thunder Bay, Ontario
P7E 6V3
(807) 475-5353
TRANSPORT CANADA AMO #51-98

TYPE:	PC12-47E	SERIAL NO.:	1129	REGN:	HB-FRC
ACFT TTSN:	19.4	LANDINGS:	8		
ENGINE SN:	U/K	TTSN:	U/K	TCSN:	U/K
		TTSO:	U/K	TCSO:	U/K
PROP SN:	U/K	TTSN:	U/K	TTSO:	U/K

VKPC T/C# 091105-0001, Pilot Snagged Engine Chip Light on take off - Investigated and found magnetic chip on fwd. magnetic chip detector on reduction gear box - chip removed and saved for further examination (allowable debris) , chip detector re-installed. Oil filter removed + patch check performed + oil sample taken - found some small particles, oil filter cleaned + reinstalled. Rear chip detector removed from accessory case for examination - found to be clean. Re-installed rear chip detector. Engine run at 80% take off power for 10min. Both chip detector's removed + oil filter once again for examination - found to be clean + re-installed. Engine run once again at 80% for 10min. and Oil filter + both chip detectors removed for examination - found to be clean + re-installed all with new o-rings and saftied required. Engine run once more for leak check - no leaks found. all work done IAW PT6A-67P Maint. Man. All samples taken are to be sent away for investigation.

"The maintenance described above has been performed in accordance with the applicable standards of airworthiness"

Jure Brkljacic ACA 006

01-May-09



Production Organization / CH.21G.0002

Magnetic Chip Detector Maintenance

Certifies that the work specified was carried out in accordance with Requirement 21A.163(d) and in respect to that work the aircraft is considered ready for release to service and therefore is in a condition for safe operation.

Date: 01 May 2009 WO No. VKPC T/C # 091105-0001

Signature: Perry Schulz

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
MAY 06 2009	23.5		9	
MAY 22 2009				
JUL 31 2009				

Signature

AME
ACA/AMO
SCA/AMO

May 6, 2009 Engine Log Entry
Engine S/N PCE-RY0131
Pilatus Aircraft PC-12/47E S/N 1129
HB-FRC (N129NX pending)

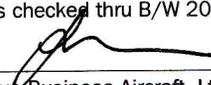
Page 1 of 1
Total Time 23.5
Cycles: 9



Pilatus Business Aircraft, Ltd., 11755 Airport Way, Broomfield, CO 80021

Performed the following maintenance:
-AD's checked thru B/W 2009-09. No FAA AD's for this model at this time.

END


Leif Johnsen
Pilatus Business Aircraft, Ltd.; POA Ref: EASA CH.21G.0002

May 22, 2009 Engine Log Entry
Engine S/N PCE-RY0131
Pilatus Aircraft PC-12/47E S/N 1129
N129NX

Page 1 of 1
Total Time: 23.5
Cycles: 9



Pilatus Business Aircraft, Ltd., 11755 Airport Way, Broomfield, CO 80021

The following maintenance was performed:

Complied with P&WC SB 14431 - Fuel Control Unit Inspection. Performed inspection of FCU, Woodward P/N 8063-044 (PW&C P/N 3119892-07) S/N 16408403 in accordance with Woodward Governor SB 83212-73-018. Inspection performed by Woodward Governor technician with wall thickness found to be within specifications. Reference FAA Form 8130-3 dated May 11, 2009.

END

Maintenance Release: The maintenance identified above was inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details are on file under Work Order No. 1129-7-2.

Signature of Authorized Person  Dudley Clark
For FAA Certified Repair Station No. ZP8R849Y

July 31, 2009 Engine Log Entry
Engine S/N PCE-RY0131
Pilatus Aircraft PC-12/47E S/N 1129
N129NX

Page 1 of 1
Total Time: 27.7
Cycles: 15



Pilatus Business Aircraft, Ltd., 11755 Airport Way, Broomfield, CO 80021

The following maintenance was performed:

Follow-up inspection of oil filter, screens and chip detectors. Performed inspection as follow-up of chip light on indication 01-May-09. Metal found in the first sample taken 01-May-09 was AMS5613 and per the troubleshooting chart in the P&WC MM figure 105 a resample was due in 10 additional hours engine time. Filter patch and oil sample taken and sent to lab 24-Jul-09. Chip detector had no contamination. This sample came back normal. Next sample due in 50 additional hours engine time (77.7 hours).

END

Maintenance Release: The maintenance identified above was inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service. Pertinent details are on file under Work Order No. 1129-7-4.

Signature of Authorized Person  Dudley Clark
For FAA Certified Repair Station No. ZP8R849Y

Signature

AME
ACA/AMO
SCA/AMO



N129NX PILATUS P/C 12/47E S/N 1129 ACTT 280.6 LND5 170
PT6A-67P S/N PCE-RY0131 TSN 280.6 CSN 170

Performed a **100hr. Engine Inspection** in accordance with the Pilatus PC-12/47E IETP Doc. #02307, Revision #5 dated Jan 31, 2011, section 05-20-10 and the Pratt&Whitney Canada EMM P/N 3038336 Rev. 37, dated Oct. 08, 2010, periodic inspection guide, (100hr. & minor inspection items) per section 72-00-00 table 601.

Accomplished the requirements of PC-12 AMM sections 04-00-00, 05-10-10 and 05-10-20 as follows:

- 100hr. Compressor/Turbine Desalination
- 200hr. P3 Air Filter Cleaning
- 200hr./1yr. Spark Igniter Wear Check
- 600hr. Eng. Fuel Pump Outlet Filter Replacement
- 600hr./1yr. Chip Detector Inspection
- **Pilatus Mand. S/B # 72-003(Ref. # 267) (PWC S/B 14444R1)** Regarding engine reduction gearbox first stage carrier bolts, has been found to be N/A. No repair or overhaul has been performed on customer power section.
- **Pilatus SIL # 153 Regarding PWC S/B 14445** is found to be N/A at this time. Installed FCU S/N 16408403 TSN=280.6.
- **Pratt & Whitney S/B 14447** Regarding inspection of gas generator case is found to be N/A by engine and gas generator case S/N.
- Ground run and leak checks are satisfactory.

This aircraft and/or component has been repaired and inspected in accordance with current Federal Air Regulations and was found to be in an airworthy condition with respect to the work performed and is approved for return to service.

Signed Steve Hickey W.O.# 15396 Dated 03/18/2011
Steve Hickey-Chief Inspector
MARTIN AVIATION, MAINTENANCE
19300 IKE JONES ROAD, SANTA ANA, CA 92707
RS CERT.# M8VR406N



N129NX PILATUS P/C 12/47E S/N 1129 ACTT 336.2 LND5 200
PT6A-67P S/N PCE-RY0131 TSN 336.2 CSN 200

Performed an **Annual/100hr. Engine Inspection** in accordance with the Pilatus PC-12/47E IETP Doc. #02307, Revision #5 dated Jan 31, 2011, section 05-20-10 and the Pratt&Whitney Canada EMM P/N 3038336 Rev. 37, dated Oct. 08, 2010, periodic inspection guide, (100hr. & minor inspection items) per section 72-00-00 table 601.

Accomplished the requirements of PC-12/47E AMM sections 04-00-00, 05-10-10 and 05-10-20 as follows:

- 100hr. Compressor/Turbine Desalination
- 200hr. P3 Air Filter Cleaning
- 200hr./1yr. Spark Igniter Wear Check
- 400hr. Hot section boroscope (In conj. with fuel nozzle inspection)
- 400hr. Fuel Manifold and Nozzle Assembly Inspection performed by PWC. Ref WO# 169197 dated 05/17/2011 Cert.# EJ3R477L
- 600hr./1yr. Chip Detectors Inspection
- 600hr. Eng. Fuel Pump Outlet Filter Replacement

Complied with the following S/Bs and ADs

1. **Pilatus SIL # 153 Regarding PWC S/B 14445** is found to be N/A at this time. Engine is not currently on an extended TBO program.
2. **Pratt & Whitney S/B 14444R1** Regarding First Stage Carrier Bolt replacement is N/A. No repair or overhaul has been performed on customer power section.

- Ground run and leak checks are satisfactory.

This aircraft and/or component has been repaired and inspected in accordance with current Federal Air Regulations and was found to be in an airworthy condition with respect to the work performed and is approved for return to service.

Signed Steve Hickey W.O.# 15499 Dated 05/27/2011
Steve Hickey-Chief Inspector
MARTIN AVIATION, MAINTENANCE
19300 IKE JONES ROAD, SANTA ANA, CA 92707
RS CERT.# M8VR406N

W/O#: 36U-13P-4346
Make: P&WC
Model: PT6A-67P
S/N: PCE-RY0131
Reg #: N129NX



1980 Airport Rd. Hangar A Heber City, UT 84032

Tach: N/A
Total Time: 692.4
Hobbs: 692.4
Cycles: 380
SMOH: N/A

AME
A/AMO
A/AMO

I certify that this engine has been inspected in accordance with a **100-Hour / Annual Inspection** using the Pilatus AMM 12-B-05-20-20-00A-281A-A and P&WC EMM 72-00-00, Table 601 (Applicable Periodic, Minor, Routine, and 100 Hour Inspections) and was determined to be in airworthy condition. Installed a PC-12 / Pratt & Whitney 100-Hour Kit.

Complied with the following Chapter 4 / 5 Special Inspection Items:

Engine Fuel Pump Inlet Screen Inspection / Cleaning IAW EMM 73-10-02.
Engine Fuel Pump Outlet Filter replaced with new P/N: AN6235-3A IAW EMM 73-10-02.
Engine Oil Sample taken IAW EMM 79-20-02 and sent out for analysis.
Reduction / Accessory GB Chip Detector Inspection / Check IAW AMM 12-B-79-30-01-00A-920A-A.
Engine Spark Igniters Cleaning / Inspection / Check IAW AMM 12-B-74-20-00-00A-920A-A.
P3 Air Filter Cleaning / P3 Filter Housing Assembly Drain Inspection IAW EMM 73-10-07.
Torque Limiter / Performance Tests IAW AMM 12-B-71-00-00-00A-903G-A / 903H-A.
Engine Torque / Stick Pusher Transducer Cleaning IAW AMM 12-B-71-00-03-00A-250A-A.
Compressor Desalinization / Performance Recovery & Turbine Wash IAW AMM 12-B-71-00-00-00A-250A-A.
Engine Hot Section Borescope Inspection IAW P&WC EMM 72-00-00. No faults found.
Fuel manifold adapter / nozzle assemblies Inspection by removing the manifold adapter / nozzle assemblies and sending out for inspection / cleaning. Re-installed the Nozzles using a new O-Rings & Gaskets IAW EMM 73-11-05 after inspection / cleaning performed by Dallas Airmotive W/O#: RPR32150 (See FAA Form 8130-3). Operation / leak checks were satisfactory.
The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance identified above was repaired and inspected by OK3Air CRS W77R917Y in accordance with current Federal Aviation Regulations and was Approved for return to service. Pertinent Details are on file under this work order.

Date: 5/16/13

Authorized Inspector:
Jeff Dowling

W/O#: 36U-14P-4548
Make: P&WC
Model: PT6A-67P
S/N: PCE-RY0131
Reg #: N129NX



1980 Airport Rd. Hangar A Heber City, UT 84032

Tach: N/A
Total Time: 801.2
Hobbs: 801.2
Cycles: 435
SMOH: N/A

I certify that this engine has been inspected in accordance with a **100-Hour / Annual Inspection** using the Pilatus AMM 12-B-05-20-20-00A-281A-A and P&WC EMM 72-00-00, Table 601 (Applicable Periodic, Minor, Routine, and 100 Hour Inspections) and was determined to be in airworthy condition. Installed a PC-12 / Pratt & Whitney 100-Hour Kit.

Complied with the following Chapter 4 / 5 Special Inspection Items:

Engine Fuel Pump Inlet Screen Inspection / Cleaning IAW EMM 73-10-02.
Engine Fuel Pump Outlet Filter replaced with new P/N: AN6235-3A IAW EMM 73-10-02.
Engine Oil Sample taken IAW EMM 79-20-02 and sent out for analysis.
Reduction / Accessory GB Chip Detector Inspection / Check IAW AMM 12-B-79-30-01-00A-920A-A.
Engine Spark Igniters Cleaning / Inspection / Check IAW AMM 12-B-74-20-00-00A-920A-A.
P3 Air Filter Cleaning / P3 Filter Housing Assembly Drain Inspection IAW EMM 73-10-07.
Torque Limiter Adjustment / Test IAW AMM 12-B-71-00-00-00A-903H-A
Engine Performance Test IAW AMM 12-B-71-00-00-00A-903I-A.
Engine Torque / Stick Pusher Transducer Cleaning IAW AMM 12-B-71-00-03-00A-250A-A.
Compressor Desalinization / Performance Recovery Wash IAW AMM 12-B-71-00-00-00A-250A-A.

Complied with the following Service Letters / Service Bulletins:

Pilatus SL 173, Engine Torque Limiter Inspection, C/W IAW Paragraph 3. of P&WC SB No. 14473 - No faults found. Torque Limiter has been in service over 800 hrs. No further action required.
Pilatus SB72-004 (Ref No. 310), Inspection of Fuel Nozzle Assemblies IAW P&WC SB No. 14357, does not apply. No Tips were replaced during last Nozzle Service on 5/16/13 @ 692.4 ACTT - Prior Service on 5/27/11 @ 336.2 is outside Bulletin Affected Dates.
The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance identified above was repaired and inspected by OK3Air CRS W77R917Y in accordance with current Federal Aviation Regulations and was Approved for return to service. Pertinent Details are on file under this work order.

Date: 5/21/14

Authorized Inspector:
Jeff Dowling

Section 1: Record of engine maintenance and elementary work

Dat W/O#: 36U-15P-4753
 -- / -- Make: P&WC
 Model: PT6A-67P
 S/N: PCE-RY0131
 Reg #: N129NX



1980 Airport Rd. Hangar A Heber City, UT 84032

Tach: N/A
 Total Time: 909.6
 Hobbs: 909.6
 Cycles: 488
 SMOH: N/A

I certify that this engine has been inspected in accordance with a **100-Hour / Annual Inspection** using the Pilatus AMM 12-B-05-20-20-00A-281A-A and P&WC EMM 72-00-00, Table 601 (Applicable Periodic, Minor, Routine, and 100 Hour Inspections) and was determined to be in airworthy condition. Installed a PC-12 / Pratt & Whitney 100-Hour Kit. Serviced w/ 1 qt. BP-2380 Oil.

Complied with the following Chapter 4 / 5 Special Inspection Items:

- Engine Fuel Pump Inlet Screen Inspection / Cleaning IAW EMM 73-10-02.
- Engine Fuel Pump Outlet Filter replaced with new P/N: AN6235-3A IAW EMM 73-10-02.
- Engine Oil Sample taken IAW EMM 79-20-02 and sent out for analysis.
- Reduction / Accessory GB Chip Detector Inspection / Check IAW AMM 12-B-79-30-01-00A-920A-A.
- Engine Spark Igniters Cleaning / Inspection / Check IAW AMM 12-B-74-20-00-00A-920A-A.
- P3 Air Filter Cleaning / P3 Filter Housing Assembly Drain Inspection IAW EMM 73-10-07.
- Engine Torque / Stick Pusher Transducer Cleaning IAW AMM 12-B-71-00-03-00A-250A-A.
- Compressor Desalinization / Performance Recovery Wash IAW AMM 12-B-71-00-00-00A-250A-A.
- Torque Limiter Adjustment / Test IAW AMM 12-B-71-00-00A-903H-A. Final checks were satisfactory.
- Engine Performance Test IAW AMM 12-B-71-00-00-00A-903I-A. All results were within limits.

The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance identified above was repaired and inspected by OK3Air CRS W77R917Y in accordance with current Federal Aviation Regulations and was Approved for return to service. Pertinent Details are on file under this work order.

Date: 4/24/15

Authorized Inspector: 
 Jeff Dowling

W/O#: 36U-16P-4925
 Make: P&WC
 Model: PT6A-67P
 S/N: PCE-RY0131
 Reg #: N129NX



1980 Airport Rd. Hangar A Heber City, UT 84032

Hobbs: 1067.0
 Total Time: 1067.0
 Total Cycles: 566
 TSO: N/A
 CSO: N/A

I certify that this engine has been inspected in accordance with a **100-Hour / Annual Inspection** using the Pilatus AMM 12-B-05-20-20-00A-281A-A and P&WC EMM 72-00-00, Table 601 (Applicable Periodic, Minor, Routine, and 100 Hour Inspections) and was determined to be in airworthy condition. Installed a PC-12 / Pratt & Whitney 100-Hour Kit.

Complied with the following Chapter 4 / 5 Special Inspection Items:

- Engine Fuel Pump Inlet Screen Inspection / Cleaning IAW EMM 73-10-02.
- Engine Fuel Pump Outlet Filter replaced with new P/N: AN6235-3A IAW EMM 73-10-02.
- Engine Oil Sample taken IAW EMM 79-20-02 and sent out for analysis.
- Reduction / Accessory GB Chip Detector Inspection / Check IAW AMM 12-B-79-30-01-00A-920A-A.
- Engine Spark Igniters Cleaning / Inspection / Check IAW AMM 12-B-74-20-00-00A-920A-A.
- P3 Filter Housing Assembly Drain Inspection IAW EMM 73-10-07.
- Engine Torque / Stick Pusher Transducer Cleaning IAW AMM 12-B-71-00-03-00A-250A-A.
- Compressor Desalinization / Performance Recovery Wash IAW AMM 12-B-71-00-00-00A-250A-A.
- Engine Oil Filter Element replaced with new P/N: 3059258-01 IAW EMM.
- P3 Air Filter Element replaced with new P/N: 3059788-01 IAW EMM.

AGB Internal Scavenge Pump Inlet Screen Cleaning / Inspection IAW EMM 72-60-00 & Oil System Servicing IAW EMM 72-00-00 & PWC SB 14001 - No abnormal debris found. Serviced Engine with 2380 Turbine Engine Oil as required.

Engine Hot Section Borescope Inspection IAW P&WC EMM 72-00-00. No faults found.
 Fuel Manifold Adapter / Nozzle Assemblies Inspection by removing the Adapter / Nozzle Assemblies and sending for Service.
 Re-installed Manifold Adapter / Nozzle Assemblies using a new O-ring / Gasket Kit after Service performed by Dallas Airmotive W/O#: RPR42493 (See FAA Form 8130-3). Removal / installation performed IAW P&WC EMM 73-11-05.
 Torque Limiter Adjustment / Test IAW AMM 12-B-71-00-00A-903H-A. Final checks were satisfactory.
 Engine Performance Test IAW AMM 12-B-71-00-00-00A-903I-A. All results were within limits.

Complied with the Following P&WC Service Bulletins / Pilatus Service Letters:

- SB No. 14357R4, Fuel Nozzle Assemblies Inspection, C/W IAW the Bulletin Instructions - No affected Tips installed.
- SB No. 14495R3, Fuel Nozzle Tips Inspection, C/W IAW Bulletin Instructions - No affected Tips installed.
- SB No. 14447R1, Gas Generator, does not apply - Engine S/N: PCE-RY0131 not listed in Table 9 of Bulletin.
- SB No. 14498, PT Stator Housing, does not apply - No overhaul / repair during affected OHM Revision dates.
- SB No. 14507, FCU Interconnect Rod Inspection, C/W IAW Bulletin Instructions - No interference found.
- SB No. 14511R2, 2nd Stage PT Blades, does not apply - Engine S/N: PCE-RY0131 not listed in Table 7 of Bulletin.
- SL 179, Torque Limiter Inspection, C/W on P/N: 3244882-2, S/N: C50988 IAW Paragraph 3. B. of P&WC SB No. 14473R3 - No evidence of movement. No further action required.
- SL 181, Oil Filler & Indicator, does not apply - Equipped S/N: AB0982 not listed in Table 1 of P&WC SB No. 14499.

Addressed the Following Discrepancies:

Propeller Shaft Oil Seal replaced with new P/N: 3121688-01 using new Felt Strips P/N: 3108839-01 in the Retaining Ring Halves and a new Gasket P/N: 3116684-01 under the Retaining Ring Halves IAW EMM 72-11-00.
 Primary NF Governor P/N: 8210-137 Rev. H, S/N: 16448684 removed. Installed Repaired Governor P/N: 8210-137 Rev. H, S/N: 2491025 (TSO: 232.7) IAW EMM 62-20-00. Adjustment / Test IAW AMM 12-B-71-00-00-00A-903L-A was satisfactory.
 The Aircraft, Airframe, Aircraft Engine, Propeller, or Appliance identified above was repaired and inspected by OK3Air CRS W77R917Y in accordance with current Federal Aviation Regulations and was Approved for return to service. Pertinent Details are on file under this work order.

Date: 5/4/16

Authorized Inspector: 
 Jeff Dowling