

©Her Majesty the Queen in Right of Canada, represented
by the Minister of Public Works and Government Services, 1965.

Available through your local book seller or by mail from
Canadian Government Publishing
Public Works and Government Services Canada
Ottawa (Ontario)
KIA OS9

Telephone: (819) 956-4800
Fax: (819) 994-1498
Orders only: 1-800-635-7943
Internet: <http://publications.pwgsc.gc.ca>

Catalogue No.: T52-2365-3
ISBN: 0-660-11857-2

Reprinted 1988, 1989, 1991, 1993, 1994, 1995, 1998, 1999, 2000.

ENGINE LOG

1. Make	<u>PRATT AND WHITNEY CANADA CORP.</u>
2. Model	<u>PT6A- 42A</u>
3. Specification	<u>1011 (E.T.C.E.-12)</u>
4. Manufacturer's Serial Number	<u>PCE- RM0093</u>
5. Date of Manufacture	<u>MAY 2001</u>
6. Aircraft Inspection Cycle	<u></u>

THIS ENGINE SERVICED WITH
Exxon Turbo 2380
OIL AT THE PIPER FACTORY


Cycle Count As Of AUG 03 2001

Number of Cycles 9

ENGINE SERVICE AND

MAINTENANCE RECORD

[illegible][illegible]

DATE: <u>12/17/2003</u> MAKE / MODEL: <u>P&W PT6A-42A</u> AIRCRAFT TOTAL TIME: <u>255.9</u> ENGINE TOTAL TIME: <u>255.9</u>	 <i>"Shining as a Leader in Aviation Services since 1929"</i> ENGINE LOG ENTRY	AIRCRAFT REG: <u>N14GV</u> AIRCRAFT S/N: <u>4697092</u> Engine S/N: <u>PCE-RM0093</u>
--	---	---

➤ I certify that this engine has been inspected I/A/W an annual inspection, Event 1 & 2 inspections per guidelines in the Piper PA46-500TP maintenance manual 100 and 200 hour inspection checklists, FAR 43, Appendix D, and has been determined to be in an airworthy condition. Airworthiness Directives verified through bi-weekly 2003-25.

<u>Airworthiness Directives complied with:</u> ➤ No applicable AD's due at this time. <u>Service Information Complied with:</u> ➤ No Service Information complied with this inspection.	<u>Special Inspections Completed:</u> ➤ Initial 200 Hour Fuel Nozzle and Sheath Inspections. Removed and reinstalled all nozzles and sheaths after inspection by Pratt & Whitney, Orlando, CRS# HN4D238M. ➤ Cleaned the starter generator per 500 Hour starter generator cleaning instructions.
--	---

miscellaneous maintenance performed during this inspection:



- Safetied the reverse clevis and the backshell on the feather solenoid. Reworked the oil breather adapter to prevent oil leakage at the base. Set tension on the alternator drive belt. Aligned the 11" fuel control rod ends. Installed new igniter P/N CH34055. Installed a new propeller tach generator garloc seal P/N 3022374. Installed a new start / gen garloc seal P/N 3022376. Trimmmed the engine L/H bottom cowl away from the exhaust stack to prevent further chafing. Installed new compressor inlet screen bolts.
- Operational / leak checks completed on the work described above and found to be satisfactory. All work accomplished I/A/W the Piper PA46-500TP, Pratt & Whitney maintenance manuals and is approved for return to service. End.

Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order 17894.

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENSE NUMBER
	HRS.	MIN.	HRS.	MIN.				
BROUGHT FORWARD →								
<div><div><p>DATE: 12/17/2003</p><p>MAKE / MODEL: Hartzell HC-E4N-3Q</p><p>AIRCRAFT TOTAL TIME: 255.9</p><p>PROP TOTAL TIME: 255.9</p></div><div><p>SUN JET CENTER</p><p>"Shining as a Leader in Aviation Services since 1929"</p><p>PROPELLER LOG ENTRY</p><p>➤ I certify that this propeller has been inspected I/A/W an annual inspection, Event 1 & 2 inspections per guidelines in the Piper PA46-500TP maintenance manual 100 & 200 hour inspection checklist, FAR 43, Appendix D, and has been determined to be in an airworthy condition.</p><p>➤ Airworthiness Directives verified through bi-weekly 2003-25.</p><p>➤ Complied with BF Goodrich 50 hour propeller de-ice inspections.</p><p>➤ Accomplished a 6 month / 400 hour propeller lubrication.</p><p>➤ Applied new conductive cement to the propeller de-ice boots.</p><p>➤ Profiled, sanded and painted the prop blades.</p><p>Maintenance Release: This aircraft, airframe, engine, propeller or appliance was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. All work was performed in accordance with the applicable aircraft, engine, propeller, and / or appliance maintenance manuals and instructions. Pertinent details are on file at this repair station under work order <u>17894</u>.</p><p>Authorized Signature:  Ben T. Games, Chief Inspector for CRS# ECWR470D. Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257</p></div><div><p>AIRCRAFT REG: N14GV</p><p>AIRCRAFT S/N: 4697092</p><p>PROP S/N: HH1287</p></div></div>								
CARRIED FORWARD								
TOTAL THIS PAGE								
TOTAL FROM PREVIOUS SUMMARY								
TOTAL SINCE MFG.								

*****MUNCIE AVIATION CO. CRS#AJVR135C*****

C/W 50,400 Hr. specials

N14GV Date 5/11/2004 A/C 353.0 Hrs. TT

Annual inspection completed this date Ref. Piper Inspection Event #1 & 2 Insp.

C/W Insuit nozzle cleaning IAW P&W service manual, C/W compressor Wash IAW Service manual

Replaced paper Fuel filters and cleaned Metal Fuel & Oil. Replaced both ignitor plugs with new CH34055

See AD List for Details

Ground check and run up ok

I certify that this Engine has been inspected in accordance with a Annual Inspection and was determined to be in airworthy condition.

Repair Station No. AJVR135C

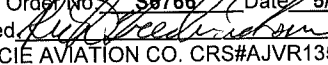
Make P&W Ser. No. PCE-RM0093

Model PT6A-42A Reg. Mark N14GV


The aircraft/component identified above was repaired and inspected in accordance with current Regulations of Federal Aviation Agency, approved for return to service

Pertinent details of the repair are on file at the Agency

Work Order No. 58766 Date 5/11/2004

Signed  Inspector for MUNCIE AVIATION CO. CRS#AJVR135C

MUNCIE, IN 47308 765-289-7141



*****MUNCIE AVIATION CO. CRS#AJVR135C*****

Make P&W Ser. No. PCE-RM0093

Model PT6A-42A Reg. Mark N14GV

N14GV Date 1/13/2005 492.1 Hrs.


C/W Modified Inspection on aircraft, Performed Compress Wash/T Wheel wash, C/W Fuel Nozzle Flow using Insitu Method IAW chapter 71-00-00, Reinstalled St/Ge. After Overhaul by Hoosier Accessories, Replaced St/Gen Drive Seal P#3022376 and carrier "O" ring P# MS9388-030 "O" ring

Ground check and Run-up Ok


The aircraft/component identified above was repaired inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for work performed

Pertinent details of the repair are on file at the agency

Work Order No. 77192 Date 1/13/2005

Signed  Inspector for MUNCIE AVIATION CO. CRS#AJVR135C

MUNCIE, IN 47308 765-289-7141



MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

*****MUNCIE AVIATION CO.CRS#AJVR135C*****

C/W 50 Hr. specials

N14GV Date 6/6/2005 A/C 580.8 Hrs. TT

Annual inspection completed this date Ref. Piper Inspection Event #1 & 2 Insp.

C/W Insuit nozzle cleaning IAW P&W service manual,C/W compressor Wash IAW Service manual

Replaced paper Fuel filters and cleaned Metal Fuel & Oil Adjusted Stand-By Gen.belt

Replaced Beta Brush block

Ground check and run up ok



I certify that this Engine has been inspected in
accordance with a Annual Inspection and was
determined to be in airworthy condition.

Repair Station No. AJVR135C

Make P&W Ser.No PCE-RM0093Model PT6A-42A Reg.Mark N14GV

The aircraft/component identified above was repaired
and inspected in accordance with current Regulations of
Federal Aviation Agency,approved for return to service
Pertinent details of the repair are on file at the Agency
Work Order No. 77889 Date 6/6/2005

Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE,IN 47308 765-289-7141



*****MUNCIE AVIATION CO. CRS#AJVR135C*****

Make P&W Ser.No. PCE-RM0093Model PT6A-42A Reg.Mark N14GV

N14GV Date 1/6/2006 719.2 Hrs.

C/W Modified Inspection on aircraft,Performed Compres

wash/T Wheel wash,C/W Fuel Nozzle Flow using

Insitu Method IAW chapter 71-00-00,adjusted

tensions on Standby generator and A/C Belts,

Ground check and Run-up Ok

The aircraft/component identified above was repaired
inspected in accordance with current Regulations of the
Federal Aviation Administration and found airworthy, and
is approved for return to service for work performed
Pertinent details of the repair are on file at the agency
Work Order No. 77888 Date 1/6/2006

Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE,IN 47308 765-289-7141



*****MUNCIE AVIATION CO.CRS#AJVR135C*****

C/W 5 Year specials

N14GV Date 4/17/2006 A/C 812.2 Hrs. TT

Annual inspection completed this date Ref. Piper Inspection Event #1 & 2 Insp.

C/W Insuit nozzle cleaning IAW P&W service manual,C/W compressor Wash IAW Service manual

Replaced paper Fuel filters and cleaned Metal Fuel & Oil Adjusted Stand-By Gen.belt

Replaced Beta Brush block

Ground check and run up ok



I certify that this Engine has been inspected in
accordance with a Annual Inspection and was
determined to be in airworthy condition.

Repair Station No. AJVR135C

Make P&W Ser.No PCE-RM0093Model PT6A-42A Reg.Mark N14GV

The aircraft/component identified above was repaired
and inspected in accordance with current Regulations of
Federal Aviation Agency,approved for return to service
Pertinent details of the repair are on file at the Agency
Work Order No. 78044 Date 4/17/2006

Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE,IN 47308 765-289-7141



TOTAL THIS

TOTAL FI
PREVIOUS SUTOTAL
SINCE M

MAINTENANCE RECORD

*****MUNCIE AVIATION CO.CRS#AJVR135C*****



N14GV Date 10/12/2006 A/C 922.6 Hrs. TT

C/W 100 Hr/Annual inspection completed this date Ref. Piper Inspection Event #1&2

C/W Insuit nozzle cleaning IAW P&W service manual,C/W compressor Wash IAW Service manual

Replaced paper Fuel filters and cleaned Metal Fuel & Oil Adjusted Stand-By Gen.belt

Replaced Oil Filter with new Sent oil sample and filter for testing

Installed new Chafe Tape on Cowling where needed,Replaced Both Ignitors P#CH34055

I certify that this Engine has been inspected in
accordance with a Annual Inspection and was
determined to be in airworthy condition.

Repair Station No. AJVR135C

Make P&W Ser.No PCE-RM0093Model PT6A-42A Reg.Mark N14GV

The aircraft/component identified above was repaired
and inspected in accordance with current Regulations of
Federal Aviation Agency,approved for return to service
Pertinent details of the repair are on file at the Agency
Work Order No. 78274 Date 10/12/2006

Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE,IN 47308 765-289-7141



*****MUNCIE AVIATION CO.CRS#AJVR135C*****

C/W 30 & 90 Day,6 month, 300,500 and 1000 Hr, 5 & 6 Year specials

N14GV Date 5/22/2007 A/C 1025.8 Hrs. TT

C/W 100 Hour Progressive Inspection Program Event#1 per FAR91.409(a)(b)(d)

Owner/operator approved AAIP

Removed and replaced Starter generator drive seal and "O"ring,Replaced High pressure fuel pump
drive seal and "O"ring,Replaced NG Tach drive seal and "O"ring,Replaced NG Tach generator with new
P#601-905.

Reinstalled FCU after 6 year bearing replacement See Sign off for details

C/W P3 Filter relacement by replacing with new P#3059788-01 and "O"ring

C/W PSB1154B by installing New Engine MountPiper P#102460-036,C/W P&W SB3426 Replacement

of RGB Scavenge Line,Ref Pratt Commercial Support

Program No. 1001865,Rigged IAW service Manual

Serviced with 10 Qts BP2380

C/W 500 Hr fuel finger screen Inspection

Installed New Fuel and Oil Hoses

I certify that this Engine has been inspected in
accordance with a Annual Inspection and was
determined to be in airworthy condition.

Repair Station No. AJVR135C

Make P&W Ser.No PCE-RM0093Model PT6A-42A Reg.Mark N14GV

The aircraft/component identified above was repaired
and inspected in accordance with current Regulations of
Federal Aviation Agency,approved for return to service
Pertinent details of the repair are on file at the Agency
Work Order No. 78707 Date 5/22/2007

Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE,IN 47308 765-289-7141



MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	ENTR
	HRS.	MIN.	HRS.	MIN.		
BROUGHT FORWARD						

James Aeronautics

Hanger 6 Lexington Bluegrass Airport 859-229-7616

N14GV - Engine LogDate: 11-6-2007
Hobbs: 1112.7

S/N-PCE-RM0093

Performed Event 2 Inspection as per the Piper Maintenance Manual Progressive Inspection Program per FAR 91.409 Owner/Operator approved AAIP. Installed new fuel filters. C/W nozzle cleaning and compressor wash as per P&W Service Manual Instructions. Cleaned the metal fuel and oil filters. Installed new P3 filter and o-ring. Checked tension on standby generator belt. No AD's due at this time. Ground run and test flight were normal with no noted discrepancies at this time.

144744716 AP/IA

*****MUNCIE AVIATION CO. CRS#AJVR135C*****

C/W 30 & 90 Day, 6 month, 1&2 Year, 50 & 200 Hr specials
N14GV Date 4/14/2008 A/C 1219.8 Hrs. TT 823 cycles
C/W 100 Hour Progressive Inspection Program Event#1 per FAR91.409(a)(b)(d)
Owner/operator approved AAIP
C/W Compressor wash and T-Wheel Rinse, C/W insitu nozzle flow per P&W MM Chapter 70-00-00
Installed new Beta Brush block P#CA3044, adjusted standby Gen & A/C belt tension, replaced one ignitor plug P#CH34055, replaced "O"ring for oil pressure fitting P#MS9388-213, Installed new oil temp probe "O"ring
See AD Listing dated 4/14/2008 for details
Ground check and run-up ok



I certify that this Engine has been inspected in accordance with a Annual/Event #1 Insp. and was determined to be in airworthy condition.
Repair Station No. AJVR135C
Make P&W Ser.No PCE-RM0093
Model PT6A-42A Reg.Mark N14GV
The aircraft/component identified above was repaired and inspected in accordance with current Regulations of Federal Aviation Agency, approved for return to service. Pertinent details of the repair are on file at the Agency.
Work Order No. T9340 Date 4/14/2008
Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE, IN 47308 765-289-7141



CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARYTOTAL
SINCE MFG.**N14GV - Engine Log**Date: 1-3-2009
Hobbs: 1309.2

S/N-PCE-RM0093

Performed Event Annual Inspection as per the Piper ^{Meridian} Maintenance Manual. Installed new fuel filters. Sent fuel nozzles to Dallas Airmotive for cleaning, flow check and calibration. Installation was done using new bands and o-rings. Performed compressor wash as per P&W Service Manual Instructions. Removed faulty FCU and sent to International Governor Service for recalibration and bench check. Reinstalled and set up as per P&W PT6A Maintenance Manual. Installed new fuel filter. Installed new P3 filter and o-ring. Checked tension on standby generator belt and A/C belt. No AD's due at this time. Ground run and test flight were normal with no noted discrepancies at this time. I certify that this engine has been inspected I/A/W an annual inspection and was determined to be in an airworthy condition.

144744716 AP/IA

*****MUNCIE AVIATION CO. CRS#AJVR135C*****

N14GV DATE 8/11/2009 Tach 1368.2 A/C TT
drained Oil, Replaced oil filter with New 3059258-01
using new "O"rings, Serviced with 8 Qts 2380 Turbine
oil, Ground check and leak tested ok
Serviced Oxygen to 1850 psi

Make Meridian Ser.No. 4697092
Model PA46-500TP Reg. Mark N14GV
The aircraft/component identified above was repaired inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for work performed. Pertinent details of the repair are on file at the agency.
Work Order Number T0218 Date 8/11/2009
Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE, IN 47308 765-289-7141



CORPORATE AIRCRAFT MAINTENANCE

ENGINE LOG**N14GV****S/N PCE-RM0093****W/O #7832 AFTT: 1424.2 HOBBS: 1424.2 TCSN: 961 02/05/10****ETT/TCSN: 1424.2/961 TSOH/TCSO: 1424.2/961**

C/W **Event #1 and #2 Inspection** per Piper Manual 767-009 revised 04/15/07.
C/W 100 HR engine compressor wash.
C/W 100 HR engine C-T blade wash.
C/W 100 HR engine **PWC SB 3425** fuel pump coupling shaft spline inspection.
Set engine idle and safetied.

PAGE ONE OF ONE

CHEYENNE AIR SERVICE

325 AIRPORT ROAD

WASHINGTON PA 15301

PH. 724-228-6400 FAX 724-228-6448

I CERTIFY THAT THIS AIRCRAFT, AIRFRAME, ENGINE, PROPELLER IDENTIFIED HAS BEEN INSPECTED IN ACCORDANCE WITH EVENT #1 AND #2/ANNUAL INSPECTION OF PIPER MANUAL 767-009 AND APPROVED ON WO# 7832 DATE 02/05/10 TOTAL TIME 1424.2 FOR RETURN TO SERVICE FOR THE WORK PERFORMED.

SIGNED [Signature]

FOR APPROVED REPAIR STATION GW1R181K

ENGINE SERVICE AND

MAINTENANCE RECORD

5

DA

BROL
FORM

*****MUNCIE AVIATION CO.CRS#AJVR135C*****

C/W 50 Hr,30,90 day 6 Mo and 1 y Specials

N14GV Date 3/4/2011 A/C 1579.4 Hrs.TT 1085 Cycles

- 1)Annual inspection completed this date Ref. Piper Inspection Event #1 & 2 Insp.
2)C/W compressor Wash and T-Wheel Rinse IAW P&W Service manual Chapter 71-00-00,
3)Performed Insitu method of Fuel Nozzle cleaning per Chapter 71-00-00 of P&W MM
4) Starter Generator Overhauled By Hoosier Accessories See 8130 for details
5)Cleaned and inspected inlet for corrosion none found treated with Procyon reinstalled inlet screen
See AD Listing Dated 3/4/2011 for details
Ground check and run up Ok



I certify that this Engine has been inspected in
accordance with a Annual inspection and was
determined to be in airworthy condition.

Repair Station No. AJVR135C

Make P&W Ser.No PCE-RM0093Model PT6A-42A Reg.Mark N14GV

The aircraft/component identified above was repaired
and inspected in accordance with current Regulations of
Federal Aviation Agency,approved for return to service
Pertinent details of the repair are on file at the Agency
Work Order No T1259 Date 3/4/2011

Signed [Signature] Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE,IN 47308 765-289-7141

Date: 09/14/11
Hobbs: 1641.9Engine Log
Model: PT6A-42A
SN: PCE-RM0093N14GV
Aircraft SN: 4697092
Date in service 8/22/2001

Removed all traces of inlet corrosion, treated area with chromic Pickling solution, primer and applied paint
per P&W PT6A-42A M.M. 72-20-00. Applied 2 coats of Procyon. Rerigged engine. **Reworked P3 adapter**
C/W P&W SB3441. Installed new fireloop supports, P/N 102636-002. Installed new prop shaft seals, P/N
3026652.

MAINTENANCE RELEASE: This aircraft, airframe, aircraft engine, propeller or appliance identified
below was repaired and inspected in accordance with current regulations of the Federal Aviation
Administration and is approved for return to service. All work was performed in accordance with applicable
aircraft, engine and or appliance maintenance manuals and instructions. Pertinent details are on file
at the repair station office. W.O. # 28380

Signature [Signature]
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARYTOTAL
SINCE MFG.

R COMPLETE

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-0302
TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com

04/06/2012 N14GV PIPER PA 46-500TP SN 4697092
HOBBS: 1728.1 TOTAL: 1728.1 TOTAL CYCLES 1192

MAKE MODEL SERIAL No TOTAL CYCLES
PRATT & WHITNEY PT6A-42A PCE-RM0093 1728.1 1192

Complied with an Annual Inspection per Piper PA 46-500TP Airplane Maintenance Manual, 767-005, dated 07/01/2010, Event 1 and 2 Inspection check list Chapter 5-20-00

1. Complied with 200 hour Fuel Nozzle Test and Inspection IAW Pratt and Whitney Maintenance Manual No. 3021442 chapter 73-10-05. Removed nozzles, inspected for defects, performed functional test, and reinstalled using new gaskets and o-rings. No defects noted at this time.
2. Complied with 200 hour Borescope Inspection of the hot section IAW Pratt and Whitney Maintenance Manual No. 3021442 chapter 72-00-00., the compressor turbine blades and stator vanes were inspected. Stage 1 sulfidation found on CT Blades. No action required at this time. No other defects noted at this time.
3. Installed new (2) igniters CH 34055
4. Installed new carbon Beta Block PN CA3026 IAW Piper PA-46-500TP Maintenance Manual 61-10-00.
5. Complied Piper SL 1110 dated 03/28/2008 and Pratt & Whitney SIL PT6A-144R1 compressor recovery wash and the turbine washes

I certify that this Engine has been inspected in accordance with an Annual inspection and was
determined to be in an airworthy condition. Other details of this inspection are on file at this agency
under Work Order No. **18124.**

Date Signed 04/06/2012:

Paul Cawthorn

Des Moines Flying Service, Inc., FAA CRS G9CR485J




MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

6


DATE	DES MOINES INTERNATIONAL AIRPORT FLYING SERVICE PO BOX 35126 - DES MOINES, IOWA 50315-0302 TELEPHONE (515) 256-5300 - FAX (515) 256-5537 dmfs.com					
05/21/2013	N14GV	PA46-500TP	SN 4697092			
HOBBS:1812.8	TOTAL: 1812.8	CYCLES: 1253				
ENGINE	MAKE P & W	MODEL PT6A-42A	SERIAL No PCE-RM0093	TOTAL 1812.8	SMOH 1812.8	TSHSI 0.0
Complied with an Annual Inspection per Piper PA 46-500TP Airplane Maintenance Manual, 767-005, dated 02/16/2012, Event 1 and 2 Inspection check list Section 5-20-00						
1. Complied with Hot Section Inspection IAW Pratt and Whitney PT6A-42A Maintenance Manual 3021442.						
Removed power section from gas generator at "C" flange. Removed compressor turbine, compressor turbine stator assembly, combustion chamber outer liner and combustion chamber inner liner. Inspection performed by Prime Turbines reference Prime Turbines work order # P1705. Outer combustion Liner PN 3114850-01 SN 8N311 Repaired by Aviation Welding Technologies. For further details see FAA Form 8130-3.						
2. Removed 1st stage power turbine stator for repairs and reinstalled IAW Pratt and Whitney PT6A-42A Maintenance Manual 72-50-03. 1st stage power turbine stator PN 3030262CL195 SN 9P167 Overhauled by P&WC Component Repairs (Wichita Falls). For further details see FAA Form 8130-3.						
3. Assembled engine IAW Pratt and Whitney PT6A-42A Maintenance Manual 72-50-00 and 72-40-00						
4. Performed engine compressor performance recovery wash IAW Pratt and Whitney PT6A-42A Maintenance Manual 71-00-00.						
5. Complied with 200 hour fuel nozzle inspection. No defects noted.						
I certify that this <u>Engine</u> has been inspected in accordance with an <u>Annual Inspection</u> and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. <u>18448</u> .						
Date Signed 05/21/2013: <u>Josh Boyd</u>  Des Moines Flying Service, Inc., FAA CRS G9CR485J						
CARRIED FORWARD						
TOTAL THIS PAGE						
TOTAL FROM PREVIOUS SUMMARY						
TOTAL SINCE MFG.						

COMPLETE

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

DES MOINES INTERNATIONAL AIRPORT FLYING SERVICE PO BOX 35126 - DES MOINES, IOWA 50315-0302 TELEPHONE (515) 256-5300 - FAX (515) 256-5537 dmfs.com						
06/01/2014	N14GV	PA46-500TP	SN 4697092			
HOBBS: 1893.4	TOTAL: 1893.4					
ENGINE	MAKE P & W	MODEL PT6A-42A	SERIAL No PCE-RM0093	TOTAL 1893.4	SMOH 0.0	TSHSI 80.6
CYCLES	1299					
1. Complied with an Annual Inspection per Piper PA 46-500TP Airplane Maintenance Manual, 767-005, dated 04/01/2013, Event 1 and 2 Inspection check list Section 5-20-00.						
2. Complied Piper SL 1110A dated 09/03/2013 and Pratt & Whitney SIL PT6A-144R1 compressor recovery wash and the turbine washes.						
3. Adjusted alternator and A/C belt tension back to within tolerance.						
4. Removed inlet screen, dressed compressor blades and installed inlet screen.						
I certify that this <u>Engine</u> has been inspected in accordance with an <u>Annual Inspection</u> and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No. <u>18891</u> .						
Date Signed 06/01/2014: <u>Jeff Seals</u>  Des Moines Flying Service, Inc., FAA CRS G9CR485J						

*****MUNCIE AVIATION CO. CRS#AJVR135C*****

N14GV Date 7/1/2015 A/C 1996.9 Hrs.TT 1366 Cycles

- 1) Annual inspection completed this date Ref. Piper Inspection Event #1 & 2 Insp.
2) C/W compressor Wash and T-Wheel Rinse IAW P&W Service manual Chapter 71-00-00,
3) Performed Insitu method of Fuel Nozzle cleaning per Chapter 71-00-00 of P&W MM
4) Cleaned and Inspected Compressor Inlet For Corrosion None found Treated With Procyon
C/W 50 Hr, 30, 90 day 6 Mo and 1 y Specials

AD's Checked to this Date See List
Preformed Ground run and Flight Check Found
Normal.

I certify that this Engine has been inspected in accordance with a Annual Inspection and was determined to be in airworthy condition.

Repair Station No. AJVR135C

Make P&W Ser.No PCE-RM0093Model PT6A-42A Reg.Mark N14GV

The aircraft/component identified above was repaired and inspected in accordance with current Regulations of Federal Aviation Agency, approved for return to service. Pertinent details of the repair are on file at the Agency.

Work Order No. S001321 Date 7/1/2015

Signed Donna J. Miller Inspector for
MUNCIE AVIATION CO. CRS#AJVR135C
MUNCIE, IN 47308 765-289-7141



MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

7

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	ENTRIES.
	HRS.	MIN.	HRS.	MIN.		
BROUGHT FORWARD						

DES MOINES
FLYING SERVICEINTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-0302
TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com08/04/2016 N14GV PIPER PA46-500TP SN 4697092
HOBBS: 2056.3 TOTAL: 2056.3ENGINE MAKE MODEL SERIAL No TOTAL TSO TSHS
PRATT & WHITNEY PT6A-42A PCE-RM0093 2056.3 - 243.5

Complied with an annual inspection using Piper PA46-500TP Maintenance Manual PN 767-005, dated 04/01/2013, chapter 5-20-00 Inspection Checklist

1. Dressed first stage compressor blades.
2. Replaced propeller tach drive seal PN 3022374
3. Complied Piper SL 1110A dated 03/28/2008 and Pratt & Whitney SIL PT6A-144 R1 compressor recovery wash and the turbine washes

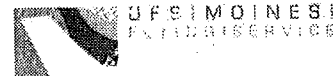
I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No **19604**.

Date Signed 08/04/2016:

Paul Cawthorn



Des Moines Flying Service, Inc., FAA CRS G9CR485J

DES MOINES
FLYING SERVICEINTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-0302
TELEPHONE (515) 256-5300 - FAX (515) 256-5537
dmfs.com08/30/2017 N14GV PA46-500TP SN 4697092
HOBBS: 2189.7 TOTAL: 2189.7MAKE MODEL SERIAL No TOTAL CYCLES TSHS
Pratt Whitney PT6A-42A PCE-RM0093 2189.7 1485 376.9

Removed engine SN PCE-RM0093 from aircraft N14GV SN 4697092. Sent engine to Dallas Airmotive for repair.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above, was repaired, and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this agency under Work Order No 19980.

Date Signed 08/30/2017:

Paul Cawthorn



Des Moines Flying Service, Inc., FAA CRS G9CR485J

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARYTOTAL
SINCE MFG.DallasAirmotive
A BBA Aviation company40591 Airport Road
New London, NC 28127
CERTIFICATE NO. YRR2491L

PT6A-42A Engine S/N: PCE-RM0093 T.S.N.: 2189.7 C.S.N.: 1485 T.S.O.: NA C.S.O.: NA

INSPECTED AND REPAIRED ENGINE FOR COMPRESSOR FOD. INSPECTED AND REPAIRED INLET CASE FOR CORROSION AND PAINT LOSS. INSPECTED ACCESSORY GEARBOX MAIN AND SCAVENGE PUMPS AND OIL PRESSURE REGULATING VALVE FOR HIGH OIL PRESSURE. TESTED ENGINE, PRESERVED AND PREPARED FOR SHIPPING. ALL WORK DONE WITH REFERENCE TO PRATT & WHITNEY OVERHAUL MANUAL P/N 3021443 REV. 48 DATED 06 FEB. 2017, MAINT MANUAL P/N 3021442 REV. 53.0 DATED 10 JULY 2017, AND OTHER DATA AND METHODS ACCEPTABLE TO THE ADMINISTRATOR. SEE ATTACHED PARTS LIST AND 8130'S FOR PARTS REPAIRED OR REPLACED.

CT VANE AREA=6.80 PT STATOR AREA=19.02 PWC /19.22 WFR
COMPLIED WITH SERVICE BULLETINS: SB3445R2, SB3458.

CORRECTED ENGINE PERFORMANCE

SHP	Ng %	T ₃ °F	T ₃ °C	SFC	POWER CHECK T ₃ TARGET	DATA PLATE SPEED@850 SHP	T ₃ PULL DOWN REQUIRED	T ₃ TRIMMER
850	93.8	1218	659	.613	NA	35173/93.8%	56.7 °C	P/N 3053995CL08 ADJUSTED @ 19.8

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	Serial Number	Total Cycles	Cycles Rem
Rotor Stg 1 Comp	3053921-01	EAAE000F537	NEW	20000	Disk Stg 1 PT	N/DIS	N/DIS	-	-
Disk Stg 2 Comp	3023112	A000RA6N	1485	18515	Disk Stg 2 PT	N/DIS	N/DIS	-	-
Disk Stg 3 Comp	3023113	A000TSB0	1485	18515	Blade CT	N/DIS	N/DIS	-	-
Impeller	3036793	8H185	1485	22515					
Disk CT	3049291-01	A000RWP4	1485	8515					

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: RPR47253

Signature:

Date: 02 Oct. 2017

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

WORK ORDER NUMBER	ENGINE SERIAL NUMBER	MODEL	DATE
RPR47253	PCE-RM0093	PT6A-42A	10/2/17
ENGINE T.S.N.	ENGINE C.S.N.	ENGINE T.S.O.	ENGINE C.S.O.
2189.7	1485	NA	NA
SIGNATURE			
C. PECKHAM			

ACCESSORY INSTALLATION				
NAME	P/N	S/N	TSO	REMARKS
FUEL CONTROL	4138010-2	C77098	2189.7	TIME SINCE REPAIR=1163.9
FLOW DIVIDER	25536-4	20572	2189.7	
FUEL HEATER	10585J	WA15923	2189.7	
FUEL PUMP	399701-5	5646	2189.7	NEW FILTER
TORQUE LIMITER	4138012-2	C79095	2189.7	
OVERSPEED GOV.	N/REC	N/REC	N/REC	N/REC
CONSTANT SPEED GOV.	8210-007	13013460G	2189.7	
L.P. BLEED VALVE	3123123-01	42A826	2189.7	
H.P. BLEED VALVE	3123122-01	42A493	2189.7	
THERMO BY-PASS VALVE	3024996	9200	2189.7	
OIL FILTER	3059258-01	NSN	821.5	
P3 FILTER	3038142	NSN	880.5	
T5 TRIMMER	3053995CL08	NRA01215	00.0	NEW 19.8 OHMS
EXCITER/REGULATOR	N/REC	N/REC	N/REC	N/REC
T5 HARNESS	3112214-01	NR15120	2189.7	

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

8

TIME RUN	TIME SINCE	INSTALLATIONS, INSPECTIONS,
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		



INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-
0302 TELEPHONE (515) 256-5300 - FAX (515)
256-5537
dmfs.com

10/18/2017 N14GV PIPER PA46-500TP SN 4697092
HOBBS: 2189.7 TOTAL: 2189.7

ENGINE	MAKE	MODEL	SERIAL No	TOTAL	TSO	TSHSI
	PRATT & WHITNEY	PT6A-42A	PCE-RM0093	2189.7	-	547.8

Complied with an annual inspection using Piper PA46-500TP Maintenance Manual PN 767-005, dated 04/01/2013, chapter 5-20-00 Inspection Checklist

1. Investigate with boroscope and take pictures of 1st stage engine compressor blades which are forwarded to Dallas Airmotive for further determination of action required. Removed engine SN PCE-RM0093, removed accessories, non-essential parts and sent to Dallas Airmotive for repair, reinstalled engine after repair, See Dallas Airmotive 8130-3 and log entry for details, reinstalled accessories with new gaskets and o-rings, test ran and operational checks good. All work done I/AW Pratt & Whitney MM 3021442 PT6A-42A and Piper MM 767-005
2. Replaced both igniters
3. Replaced Beta Brushes
4. Complied Piper SL 1110A dated 03/28/2008 and Pratt & Whitney SIL PT6A-144 R1 compressor recovery wash and the turbine washes

I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No **19980**.

Date Signed 10/18/2017: Paul Cawthorn
Paul Cawthorn
Des Moines Flying Service, Inc., FAA CRS G9CR485J



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

Cycles Since New: 1503
Time Since HSI: 572.3
Cycles Since HSI: 250

PT6A-42A	Engine S/N: PCE-RM0093	T.S.N.: 2214.2	C.S.N.: UNK	T.S.O.: NA	C.S.O.: NA
AIRCRAFT HOBBS TIME=2214.2					

REPAIRED ENGINE FOR CUSTOMER REPORTED OIL PRESSURE FLUCTUATION AT ALTITUDE. COMPLIED WITH SERVICE BULLETIN SB3412R2. INSTALLED 1 EA. NEW OIL TANK PRESSURIZATION VALVE P/N 3102413-01 AND 1 EA. NEW COVER P/N 3102408-01 WITH NEW O-RING AND GASKET. COMPLIED WITH GROUND RUN AND LEAK CHECK. ALL WORK DONE WITH REFERENCE TO SB3412R2, PRATT & WHITNEY MAINT. MANUAL P/N 3021442 REV. 53 DATED 10 JULY 2017, AND OTHER DATA AND METHODS ACCEPTABLE TO THE ADMINISTRATOR.

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: **RPR47927**

Signature: Paul Cawthorn

Date: 20 NOV. 2017

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		



INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-
0302 TELEPHONE (515) 256-5300 - FAX (515)
256-5537
dmfs.com

10/17/2018 N14GV PIPER PA46-500TP SN 4697092
HOBBS: 2284.1 TOTAL: 2284.1

ENGINE	MAKE	MODEL	SERIAL No	TOTAL	TSO	TSHSI
	PRATT & WHITNEY	PT6A-42A	PCE-RM0093	2284.1	-	644.2

Complied with an annual inspection using Piper PA46-500TP Maintenance Manual PN 767-005, dated 03/29/2018, chapter 5-20-00 Inspection Checklist

1. Complied Piper SL 1110A dated 03/28/2008 and Pratt & Whitney SIL PT6A-144 R1 compressor recovery wash and the turbine washes
2. Removed fuel control unit, sent to International Governor Services for 6 Year/ mid life bearing replacement. Reinstall F.C.U PN 4138010-2 SN C77098 I/AW PA46-500TP MM chapter 76-10-00. See 8130-3 Form for details. Adjusted idle.
3. CW 300 Hour Starter-generator brush inspection, replaced brushes (4) PN 200 SGL-1009 and S/G drive shaft o-ring PN M83248-1-113.
4. C/W 1000 Hour P3 filter replacement, PN WF336238 installed.
5. C/W 500 Hour Engine oil scavenge screen inspection.
6. C/W 8 Year Engine compartment hose replacement, Type "C" hoses only replaced PN 624023-4-0286, 624023-4-0180, 624023-4-0214, 624023-4-0126, 624040-4-0220 and 624000-4-0170. Inspected remaining type "D" hoses for condition and found good at this time.
7. Remove and replace starter-generator drive seal PN 3022376 and o-ring PN AS3209-030.

I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No **20355**.

Date Signed 10/17/2018: Paul Cawthorn
Paul Cawthorn
Des Moines Flying Service, Inc., FAA CRS G9CR485J



INTERNATIONAL AIRPORT
PO BOX 35126 - DES MOINES, IOWA 50315-
0302 TELEPHONE (515) 256-5300 - FAX (515)
256-5537
dmfs.com

11/01/2019 N14GV PIPER PA46-500TP SN 4697092
HOBBS: 2388.9 TOTAL: 2388.9

ENGINE	MAKE	MODEL	SERIAL No	TOTAL	TSO	TSHSI
	PRATT & WHITNEY	PT6A-42A	PCE-RM0093	2388.9	-	576.1

Complied with an annual inspection using Piper PA46-500TP Maintenance Manual PN 767-005, dated 03/29/2018, chapter 5-20-00 Inspection Checklist

1. Complied Piper SL 1110A dated 03/28/2008 and Pratt & Whitney SIL PT6A-144 R1 compressor recovery wash and the turbine washes
2. C/W 1000 Hour engine oil filter replacement PN PW 3059258-01 installed.
3. C/W 400 Hour fuel nozzle flow check I/AW P&W PT6A-42A MM chapter 73-10-05.
4. Removed and replaced one engine fuel nozzle with new PN 27700-4 nozzle.

I certify that this **Engine** has been inspected in accordance with an **Annual Inspection** and was determined to be in an airworthy condition. Other details of this inspection are on file at this agency under Work Order No **20727**.

Date Signed 11/01/2019: Paul Cawthorn
Paul Cawthorn
Des Moines Flying Service, Inc., FAA CRS G9CR485J



MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

9

LICENCE
NUMBER

37

INSP.
#4

TOTAL
SINCE MFG.

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.