

N4166Z
#2



AIRCRAFT LOG

ASA-SA-1

09/10/2020 09:48

Aircraft Record General Information

Manufacturer Piper Model PA 28-181
Serial 2843327 Registration Number N4166Z
Date of Manufacture _____

Engine(s) currently installed:

Manufacturer Lycoming Model O-360-A4M Serial L-37254-36A
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer Sensenich Model 76EM8S14-0-62
HUB Model _____ Serial 104863K Serial _____
Blade Model _____ Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____

09/10/2020 09:54

Tach: 1917.0

Direct Flight Solutions

N4166Z

AFTT: 1917.0

760 Franklin Road

Lebanon TN, 37087

Annual Inspection completed in accordance with FAR part 43 appendix d and service manual. Lubed aircraft and repacked wheel bearings. Charged battery. AD's checked thru 2019-24 AD 2013-02-13 Horz stab cables inspection previously completed on 12/28/2016 at AFTT:1125.3, next due in 7 years 12/28/2023 or in 2000 hours AFTT:3225.3 whichever comes first. Cleaned, inspected and oiled induction filter element. Replaced vacuum regulator filter ARB3-5-1. ELT check satisfactory in accordance with FAR 91.207(d), battery expires Jan 2020. Replaced standby attitude indicator with new RCA22-7 serial# 219J175G. Replaced flap cable tension spring 487-269. Installed Reiff HSS engine heater per Reiff instructions, ops check satisfactory. Engine heater is a minor alteration, weight and balance change negligible. Replaced nose tire and tube with customer supplied 600x6 6ply flight custom III. Replaced right brake linings APS 66-105. conditioned brake linings. Resealed left brake caliper, bleed completed. Filled brake reservoir with 5606. brake check satisfactory. Post inspection run, leak and operational checks satisfactory. I certify this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Gene T. Gracyalny

AP

LA

Date 11/26/2019

09/10/2020 09:49

DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087

LOG ID# 819 20-January-2020 WO# 3092/4

N4166Z S/N 2843327 PIPER PA28-181 TACH 1983.5

Pg 1 / 1

***** ITEM # 3092-4 VACUUM LOW *****

DISCREPANCY: VACUUM LOW

ACTION: REPLACED 215CC VACUUM PUMP. SERIAL# INSTALLED 187471. LEAK AND OPS CHECK SATISFACTORY

***** ITEM # 3092-3 INSTALL 406 ELT *****

DISCREPANCY: INSTALL 406 ELT

ACTION: REMOVED ELT 110-4 ASSY, MOUNT AND ANTENNA. INSTALLED ARTEX 406MHZ ELT 345 BASE KIT WITH WHIP ANTENNA IN SAME LOCATION. ELT PREPROGRAMMED WITH USA COUNTRY CODE AND TAIL# N4166Z. REMOTE SWITCH REPLACED IN SAME LOCATION UTILIZING EXISTING WIRING. ELT TEST CHECK SATISFACTORY IN ACCORDANCE WITH FAR91.207(D) RECALCULATED WEIGHT AND BALANCE/EQUIPMENT LIST/FORM 337 COMPLETED.

***** ITEM # 3092-2 INSTALL USB PORT *****

DISCREPANCY: INSTALL USB PORT

ACTION: INSTALLED TRUE BLUE USB MODEL TA102 IN ACCORDANCE WITH MIDCONTINENT INSTRUMENT CO MANUAL # 9017942. INSTALLATION IS CONSIDERED A MINOR ALTERATION. UNIT WAS INSTALLED AT RIGHT SIDE OF COPILOT INSTRUMENT PANEL WITH 22 AWG WIRE AND CIRCUIT PROTECTION VIA A 2 AMP CIRCUIT BREAKER IN ACCORDANCE WITH AC 43.13-1B CHAPTER 11. WEIGHT AND BALANCE NEGLIGIBLE. OPERATIONAL CHECK SATISFACTORY

A&P

GENE T. GRACYALNY

Date

20 JAN 2020

ACR ELECTRONICS, Inc.

Artex Products - CAGE Code 18560

Fort Lauderdale, FL 33312

LOG BOOK ENTRY

20 JAN 2020

E.L.T. BATTERY

REPLACEMENT DATE

09/10/2020 09:49



MAINTENANCE ENTRY 6 January 2020
PIPER, PA-28-181, N4166Z, S/N 2843327

ITEMS REMOVED: GNS430 #1 GPS/NAV/COM p/n 011-00280-10, Garmin GA56 Antenna P/N 011-00134-00.

ITEMS INSTALLED: GNS430W GPS/NAV/COM p/n 011-01060-40, Garmin GA35 Antenna P/N 013-00235-00.

MAJOR ALTERATION: Removed the existing GNS430 #1 GPS/NAV/COM p/n 011-00280-10 s/n 97101757 for WAAS upgrade. Received upgraded GNS430W p/n 011-01060-40 s/n 97101757. See Garmin 8130-3 # RMA R117782160. The upgraded GNS430W was reinstalled into the same location. A Garmin GA35 GPS antenna was installed in the same location as the removed GA56 GPS antenna. Fabricated and installed a new RG-142 coax cable assembly connecting the GA35 to the GNS430W. The GA35 was installed under the guidelines of and in reference to Garmin GA Antenna Series Installation Instructions p/n 190-01284-00 Rev D dated Mar 2012 Ref: STC/AML SA02018SE. The GNS430W was installed under the guidelines of and in reference to the Garmin STC Upgrade Installation Manual for 400W/500W Series P/N 190-00357-06 Rev. E dated Jan 2014 and STC AML SA01933LA-D. Satisfactorily performed Post Installation Checkout Procedure.

Additionally Referenced AC43.13-1B Chapter 11 Sect. 1-3; Chapter 12 Sect. 1,2,3,12 and AC43.13-2B Chapter 11 for the work described above.

See FAA Form 337 dated 6 January 2020.

Weight and balance was negligible.

The work described above has been inspected and found airworthy for return to service.

Supplemental equipment list updated.

Pertinent details on file at this repair station under Work Order #011788.

Signed for Carpenter Avionics, Inc. Repair Station

09/10/2020 09:49

YEAR 20____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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WO: 1229

Avionics - page 1 of 1



Thom Duncan Avionics
Right the first time

Thom Duncan Avionics LLC · 37 Airport Rd · Fayetteville, TN 37334 · 833-838-6226 · CRS#: 7D8R648D

N4166Z

Hobbs: 2228.0

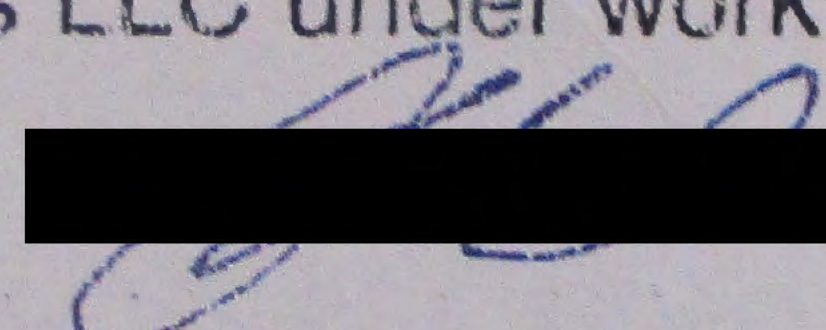
Piper, PA-28-181, S/N: 2843327

Tach: 2005.9

February 7, 2020

Removed and replaced Turn Coordinator with Overhaul exchange. Flight check operation, checks satisfactory. Removed (1) 6405-28L - Turn Coordinator, S/N: 11241E, Installed (1) 1394T100-14RB - Turn Coordinator, S/N: A20-10530.

With respect to the work performed, this avionics is approved for return to service. Details of work performed are on file with Thom Duncan Avionics LLC under work order: 1229.



Thom Duncan Repair Station 7D8R648D

09/10/2020 09:48

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N4100Z S/N 2843327 PIPER PA28-181 TACH 2046.6

Pg 1 / 1

N4166Z

**** ITEM # 3127-2 LEFT MAIN TIRE WORN ****

DISCREPANCY: LEFT MAIN TIRE WORN

ACTION: REPLACED LEFT MAIN TIRE AND TUBE, BALANCED ASSY. LEAK CHECK SATISFACTORY

**** ITEM # 3127-1 LEFT FUEL GAUGE INOP ****

DISCREPANCY: LEFT FUEL GAUGE INOP

ACTION: TROUBLESHOT TO BAD TRANSMITTER. DRAINED AND REMOVED LEFT FUEL TANK. REPLACED LEFT FUEL SENDING UNIT WITH SERVICEABLE UNIT PART NUMBER 548-671. REINSTALLED LEFT FUEL TANK, ADDED FUEL AND CALIBRATED EMPTY AND FULL. LEAK AND OPS CHECK SATISFACTORY

A&P [REDACTED] GENE T. GRACYALNY

Date

2/28/2020

DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087

LOG ID# 846 23-April-2020 WO# 3160/1

N4166Z S/N 2843327 PIPER PA28-181 TACH 2094.9

Pg 1 / 1

**** ITEM # 3160-1 BATTERY DEAD ****

DISCREPANCY: BATTERY DEAD

ACTION: REPLACED BATTERY WITH NEW G-243 BATTERY. INSTALLED SERIAL# G03068220. OPS CHECK SATISFACTORY

A&P [REDACTED] GENE T. GRACYALNY

Date

4/23/20

09/10/2020 09:48

YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
08/20	2120.			Replaced right fuel tank drain valve CCA1550. Leak check satisfactory. [REDACTED] AA [REDACTED]

DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087
LOG ID# 892 08-July-2020 WO# 3217/5
N4166Z S/N 2843327 PIPER PA28-181 TACH 2189.1

Pg 1 / 1

**** ITEM # 3217-5 THROTTLE CABLE POPPED OUT OF SWEDGED ****
DISCREPANCY: THROTTLE CABLE POPPED OUT OF SWEDGED AREA AT SWIVEL
ACTION: REPLACED AND RIGGED THROTTLE CONTROL CABLE 455-350. OPERATIONAL CHECK SATISFACTORY.

**** ITEM # 3217-4 INDUCTION FILTER DUE CONTINUED AIRWORTH ****
DISCREPANCY: K & N INDUCTION FILTER DUE CONTINUED AIRWORTHINESS INSPECTION/CLEANING
ACTION: REMOVED, CLEANED, INSPECTED, OILED AND REINSTALLED INDUCTION FILTER PER CONTINUED
AIRWORTHINESS INSTRUCTIONS.

**** ITEM # 3217-3 RIGHT MAIN TIRE DUE ROTATION ****
DISCREPANCY: RIGHT MAIN TIRE DUE ROTATION
ACTION: ROTATED RIGHT MAIN TIRE ON WHEEL. LEAK CHECK SATISFACTORY

A&P

GENE T. GRACYALNY

Date

8 July 2020

09/10/2020 09:48

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DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087
LOG ID# 908 17-August-2020 WO# 3243/4
N4166Z S/N 2843327 PIPER PA28-181 TACH 2235.8

Pg 1 / 1

**** ITEM # 3243-4 NOSE GEAR TOW PIN PLATE LOOSE ****
DISCREPANCY: NOSE GEAR TOW PIN PLATE LOOSE
ACTION: RETORQUED 4 EACH TOW ADAPTER PLATE MOUNT BOLTS.

**** ITEM # 3243-3 BOTH CONTROL YOKES STICKY WHEN PULLED ****
DISCREPANCY: BOTH CONTROL YOKES STICKY WHEN PULLED
ACTION: BUFFED YOKE SHAFTS AND LUBED. CHECKED SATISFACTORY

**** ITEM # 3243-2 RIGHT FUEL DRAIN LEAKING ****
DISCREPANCY: RIGHT FUEL DRAIN LEAKING
ACTION: REMOVED, CLEANED SEAL OF TRASH AND REINSTALLED RIGHT FUEL DRAIN. LEAK CHECK SATISFACTORY

A&P

GENE T. GRACYALNY

Date

17/Aug 2020

09/10/2020 09:48

Logbook #2

ENGINE LOG BOOK



Continental Motors Services

Fairhope, Alabama

09/10/2020 09:58

Date

Hours

Min

Hours

Min

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

DATE: January 29, 2019	ENGINE MODEL: O360A4M	ENGINE S/N: L-37254-36A	ENGINE T.T./S.M.O.H. 1603.35/0.0
 Continental Motors Services			
This is to certify that the engine described hereafter has been OVERHAULED to manufacturers new parts limits as listed in overhaul manual 60294-7 Revision dated July 2011. This engine was disassembled, cleaned, inspected, and tested in accordance with manufacturers current instructions. Applicable Service Bulletins and Airworthiness Directives have been complied with. This engine has been inspected in accordance with procedures listed in overhaul manual 60294-7 and has been accepted by CONTINENTAL MOTORS SERVICES, INC. in Fairhope Alabama. I certify that this engine has been OVERHAULED as indicated above and was determined to be airworthy with respect to the work performed. Reference Work Order ES-8663.			
COMPLIED WITH THE FOLLOWING AIRWORTHINESS DIRECTIVES: 96-09-10C: Complied with by installation of new component. NEXT DUE: Engine overhaul.			
COMPLIED WITH: 630A, 480F, 518D, 240W, 475C, 524, 439A, 400, 183A, 96-09-10C.			
MECHANIC: [Redacted]	9CER853B	AUTHORIZATION: [Redacted]	9CER853B

DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087
LOG ID# 635 08-February-2019 WO# 2810/2
N4166Z S/N 2843327 PIPER PA28-181 TACH 1603.35

Pg 1 / 1

ETT 1603.35 TSMOH: 00.0

**** ITEM # 2810-2 INSTALL OVERHAULED ENGINE ****

DISCREPANCY: INSTALL OVERHAULED ENGINE

ACTION: INSTALLED CONTINENTAL MOTORS OVERHAULED LYCOMING ENGINE O-360-A4M SERIAL NUMBER L-37254-36A ON N4166Z WITH NEW LORD MOUNTS J9613-40/BOLTS/ NUTS, OIL COOLER 8001080, ENGINE HEATER EZ440, DRAIN VALVE CCB37000, BREATHER HOSE. REINSTALLED BAFFLING, ALTERNATOR ALU8532LS SN 9125376, VACUUM PUMP, AIR CONDITIONING COMPRESSOR AND SUPPORTING BRACKETS. SERVICED ENGINE WITH 8 QTS OF AEROSHELL 100 MINERAL OIL. REINSTALLED PROPELLER, SPINNER AND COWLING. CHECKED MIXTURE AND IDLE. GROUND RUN, LEAK AND OPERATIONAL CHECKS SATISFACTORY IN ACCORDANCE WITH LYCOMING SI 1427C AND SERVICE MANUAL. FLIGHT TEST REQUIRED IN ACCORDANCE WITH LYCOMING SI 1427C.

[Redacted] GENE T. GRACYALNY

Date

8 FEB 2019

09/10/2020 10:01

09/10/2020 10:01



ance Record

Date

810 Blue Angel Way. Smyrna, TN 37167 (615) 533-3513
DATE: 03/14/2019 Piper PA-28-181 N4166Z S/N: 2843327
Tach Time: 1652.4 Hobbs: 1812.1 TSMOH: 49.0
Engine Model: O-360-A4M S/N: L-37254-36A

ine part removal and
Airworthiness Directives,
Bulletins

Carried for

Drained oil. Removed oil filter. Cut oil filter open. No discrepancies found at this time.
Removed and inspected oil suction screen. No Discrepancies found at this time.
Reinstalled screen with new crush gasket P/N: 06E19769-1. Installed new oil filter P/N:
AA48110-2. Replenished engine oil with 7qts of 15W-50. All work done I.A.W Lycoming
S.B. No. 480F and Piper PA-28-181 AMM. All operational, rigging, and leak checks
performed and found to be satisfactory at this time.

Moses Mbugua A&P

Tach: 1700.4 Direct Flight Solutions N4166Z
ETT: 1700.4 760 Franklin Road
SMOH: 97.05 Lebanon TN, 37087

Annual Inspection completed in accordance with FAR part 43
appendix d and service manual. Compression checks #1-78, #2-
74, #3-78, #4-78 all taken hot at 80psi. Removed, cleaned,
gapped, tested, rotated and reinstalled spark plugs. Removed and
replaced oil and oil filter, serviced with 8 qts of Aeroshell 15W-
50 and oil filter PN AA48110-2. Opened old oil filter and
inspected element for metal particles, none noted. Inspected oil
screen for metal, none noted. Checked AD's thru biweekly
2019-07 Ground run, leak and operational checks satisfactory. I
certify this engine has been inspected in accordance with an
Annual Inspection and was determined to be in airworthy
condition.

Gene T. Gracyalny AP IA Date 4/12/2019

ENGINE LOG BOOK ENTRY

HOLLINGSHEAD AVIATION

N4166Z

Piper Model #PA-28-181 Serial # 2843327
Lycoming Model # O-360-A4M Serial # L-37254-36A
Tach: 1755.6 Hrs. 2-April-2019

Drained oil and replaced oil filter with new filter P/N AA48110-2 IAW Lycoming S.B. No. 480E. Removed oil
suction screen, cut open old filter and examined both for contaminants IAW Lycoming S.I. No. 1492D, none
detected. Reinstalled screen with new gasket P/N 06E19769-1.00 and serviced engine with 7 Qts. Aeroshell
15w50 oil. Post run leak check none detected at this time.

**The engine identified above was repaired & inspected IAW Lycoming Direct Drive Overhaul
Manual and is approved for return to service with respect to the work performed.**
Details are on file at Hollingshead Aviation Services, LLC under Work Order # 25552.

Dallas R Smith A&P

For

Hollingshead Aviation Services

300 Doug Warpoole Rd, Smyrna, TN 37167
(615) 459-3337

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Lycoming

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- Airwor

Discrep
-#1 Cyl
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-Valve
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approv

Moses
Signed

Model: PA-28-181
S/N: 2843327
Reg. No: N4166Z

 **CONTOUR**
AVIATION

893 Fitzhugh Blvd.
Smyrna, TN 37187
615 534 4600

09/10/2020 10:01

09/10/2020 09:59

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					This Engine S/N L-37254-36A removal from A/C N4166Z for prop strike inspection, ETT 1903.8, SMOH 300.45. [Redacted] A/C [Redacted]
7/26/2019	1903	8	300	.45	

DATE: September 10, 2019	ENGINE MODEL: O360A4M	ENGINE S/N: L-37254-36A	ENGINE T.T. / SMOH 1903.8/300.45
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CONTINENTAL SERVICES

This engine was delivered to Continental Services for inspection due to a propeller strike. Engine was disassembled and inspected in accordance with Lycoming Overhaul Manual 60294-7, revision date of July 2011. The following serialized items were installed as replacements: magneto (serial number: 13121229) and magneto (17050719). Cylinders were disassembled, cleaned, and repaired as required for serviceable condition. Engine assembled in accordance with 60294-7 using new seals, gaskets and "O" rings. New connecting rod bolts, nuts and bearings and crankshaft bolts and bearings installed. Applicable Service Bulletins and Airworthiness Directives have been complied with. This engine has been tested in accordance with procedures listed in 60294-7 and has been accepted. I certify that this engine has been inspected and repaired as indicated above and was determined to be airworthy with respect to the work performed. Details of this repair are on record at this facility; reference Work Order ES-9036.

Complied with: 630A, 480F, 533C, 518D, 201F, 240W, 475C, 439A, 400, 271A, 183A, 2004-10-14C.

MECHANIC: [Redacted]	9CER853B	[Redacted]	9CER853B
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DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD. LEBANON, TN 37087 LOG ID# 635 02-October-2019 N4166Z S/N 2843327 PIPER PA28-181 TACH 1903.8	Pg 1 / 1
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****INSTALL ENGINE AFTER REPAIR/INSPECTION****
DISCREPANCY: INSTALL INSPECTED REPAIRED ENGINE
ACTION: REINSTALLED CONTINENTAL MOTORS REPAIRED LYCOMING ENGINE O-360-A4M SERIAL NUMBER L-37254-36A (SEE LOG ENTRY DATED 10 SEPT 2019) ON N4166Z. REINSTALLED BAFFLING, ALTERNATOR ALU8532LS SN 9125376, VACUUM PUMP, AIR CONDITIONING COMPRESSOR AND SUPPORTING BRACKETS. INSTALLED NEW OIL COOLER LINES 124F003-8CR-0210. SERVICED ENGINE WITH 8 QTS OF AEROSHELL 100 MINERAL OIL. REINSTALLED PROPELLER, SPINNER AND COWLING. CHECKED MIXTURE AND IDLE. GROUND RUN, LEAK AND OPERATIONAL CHECKS SATISFACTORY IN ACCORDANCE WITH LYCOMING SI 1427C AND SERVICE MANUAL. FLIGHT TEST REQUIRED IN ACCORDANCE WITH LYCOMING SI 1427C.

A&P [Redacted] GENE T. GRACYALNY Date 2 Oct 2019

See Airframe log for Test flight

Date	Total Time		Engine Service and Maintenance Record
	Hours	Min	
Carried forward →			This Engine S/N L-37254-36A removal from A/C N4166Z for prop strike inspection, ETT 1903.8, SMOH 300.45. [Redacted] A/C [Redacted]

DIRECT FLIGHT SOLUTIONS
LOG ID# 797 09-December-2019
N4166Z S/N 2843327

**** ITEM # 3074-1 OIL DISCREPANCY: OIL CHANGE ACTION: REMOVED AND REPLACED FILTER PN CH48110-1. OLD OIL LEAK CHECK SATISFACTORY.

A&P [Redacted] GENE T. GRACYALNY

DIRECT FLIGHT SOLUTIONS
LOG ID# 816 20-January-2020
N4166Z S/N 2843327

**** ITEM # 3092-1 OIL DISCREPANCY: OIL CHANGE ACTION: REMOVED AND REPLACED FILTER PN CH48110-1. OLD OIL LEAK CHECK SATISFACTORY.

A&P [Redacted] GENE T. GRACYALNY

DIRECT FLIGHT SOLUTIONS
LOG ID# 818 19-February-2020
N4166Z S/N 2843327

**** ITEM # 3114-1 OIL DISCREPANCY: OIL CHANGE ACTION: REMOVED AND REPLACED FILTER PN CH48110-1. OLD OIL LEAK CHECK SATISFACTORY.

A&P [Redacted] GENE T. GRACYALNY

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Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins Tach: 1917.0 Direct Flight Solutions N4166Z ETT: 1917.0 760 Franklin Road SMOH:313.65 Lebanon TN, 37087 Annual Inspection completed in accordance with FAR part 43 appendix d and service manual. Compression checks #1-76,#2-77 #3-77, #4-78 all taken hot at 80psi. Removed, cleaned, gapped, tested, rotated and reinstalled spark plugs. Oil not changed at this time. Still has initial 100 mineral break in oil. Checked AD's thru biweekly 2019-24 Ground run, leak and operational checks satisfactory. I certify this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition. Gene T. Gracyalny AIP LA Date 11/26/2019
DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087 LOG ID# 797 09-December-2019 WO# 3074/1 N4166Z S/N 2843327 PIPER PA28-181 TACH 1931.3 Pg 1 / 1 **** ITEM # 3074-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. _____ A&P GENE T. GRACYALNY Date 9 Dec 2019					
DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087 LOG ID# 816 20-January-2020 WO# 3092/1 N4166Z S/N 2843327 PIPER PA28-181 TACH 1983.5 Pg 1 / 1 **** ITEM # 3092-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. _____ A&P GENE T. GRACYALNY Date 1/20/2020					
DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087 LOG ID# 818 19-February-2020 WO# 3114/1 N4166Z S/N 2843327 PIPER PA28-181 Tach: 2032.18 Pg 1 / 1 **** ITEM # 3114-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. _____ A&P GENE T. GRACYALNY Date 2/19/2020					

09/10/2020 09:59

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward					
LOG ID# 840 06-April-2020 WO# 3154/2 N4166Z S/N 2843327 PIPER PA28-181 TACH 2084.9 Pg 1 / 1 **** ITEM # 3154-2 SPARK PLUGS DUE 100 HOUR INSPECTION AND **** DISCREPANCY: SPARK PLUGS DUE 100 HOUR INSPECTION AND CLEANING ACTION: REMOVED, CLEANED, INSPECTED, TESTED, GAPPED AND ROTATED SPARKPLUGS ON REINSTALLATION. OPS CHECK SATISFACTORY **** ITEM # 3154-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. 4/6/2020 [REDACTED] [REDACTED] Date Gene T. Gracyalny A&P [REDACTED]					
DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087 LOG ID# 869 02-June-2020 WO# 3192/1 N4166Z S/N 2843327 PIPER PA28-181 TACH 2137.6 Pg 1 / 1 **** ITEM # 3192-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. [REDACTED] 6/2/20 A&P [REDACTED] GENE T. GRACYALNY Date					
DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087 LOG ID# 892 08-July-2020 WO# 3217/5 N4166Z S/N 2843327 PIPER PA28-181 TACH 2189.1 Pg 1 / 1 **** ITEM # 3217-2 SPARK PLUGS DUE 100 HOUR INSPECTION **** DISCREPANCY: SPARK PLUGS DUE 100 HOUR INSPECTION ACTION: REMOVED, CLEANED, INSPECTED, GAPPED, TESTED AND ROTATED SPARK PLUGS ON REINSTALLATION. OPS CHECK SATISFACTORY. **** ITEM # 3217-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. [REDACTED] 8 July 2020 A&P [REDACTED] GENE T. GRACYALNY Date					
DIRECT FLIGHT SOLUTIONS 760 FRANKLIN RD LEBANON, TN 37087 LOG ID# 908 17-August-2020 WO# 3243/4 N4166Z S/N 2843327 PIPER PA28-181 TACH 2235.8 Pg 1 / 1 **** ITEM # 3243-1 OIL CHANGE DUE **** DISCREPANCY: OIL CHANGE DUE ACTION: REMOVED AND REPLACED OIL AND OIL FILTER, SERVICED WITH 8 QTS OF AEROSHELL 15W-50 AND OIL FILTER PN CH48110-1. OLD OIL FILTER OPENED AND ELEMENT INSPECTED FOR METAL PARTICLES, NONE NOTED. LEAK CHECK SATISFACTORY. [REDACTED] 17 Aug 2020 A&P [REDACTED] GENE T. GRACYALNY Date					

Date	Total Time		Time Since Last Overhaul
	Hours	Min	
Carried forward			
09/10/2020 09:59			

N4166Z

PROPELLER LOG BOOK



SENSENICH PROPELLER MFG. CO.

Lititz, Pennsylvania 17543

Internet: <http://www.sensenich.com>.

THIS LOG BOOK IS TO BE KEPT
WITH THE PROPELLER
FOR RECORDING OF ALL PROPELLER MAINTENANCE WORK PERFORMED

LBGEN 6/99

09/10/2020 10:04

**DESCRIPTION OF ALL OPERATIONS
PERTAINING TO AIRWORTHINESS DIRECTIVES,
SERVICE BULLETINS, SERVICE LETTERS,
& MINOR ADJUSTMENTS**

DATE	TACH TIME	DESCRIPTION OF WORK	SIGNATURE
7/23/2019	1903.4	This new propeller 76EM8 \$14-0-62 S/N 105458K installed on aircraft N4166Z with new prop spacer and bolt kit. Blade Track satisfactory	[Redacted Signature]

Tach: 1917.0
PTT: 13.6

Direct Flight Solutions
760 Franklin Road
Lebanon TN, 37087

N4166Z

Annual Inspection completed in accordance with FAR part 43 appendix d and service manual. Checked AD's thru biweekly 2019-24. I certify this propeller has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition

Gene T. Gracyalny

AP

IA

Date 11/26/2019

2/17/2020

Tach: 2,030.80

AF TT:

Hobbs:

Wingnuts Aviation, LLC.

4428 Airport Road

Springfield, TN 37172

N4166Z

PA-28-181

S/N: 2843327

- 1 Performed propeller balance in accordance with Dyna Vibe GX User Manual version 1-12. Installed 3.95 grams on 300° and 11.12 grams on 270°. Final vibration value of 0.04 IPS.

Kyle LaMontagne

AP

IA

09/10/2020 10:05