



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 09/29/2015

Test Date: 09/29/2015

This engine model LTSI0360KB6B, serial number 1031279 was rebuilt by Continental Motors Inc, in accordance with approved design data and the applicable requirements of 14 CFR, Part 21 and 43 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Continental Motors Service Bulletins.

Thomas Howard

CONTINENTAL MOTORS, INC.

Form 6012-04 (Rev Sept 2014)

NOV 11 / 15

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BAILEY'S AIRCRAFT SERVICE

256 SOUTH MAIN ST. ~ PLEASANT GAP PA. 16823

PIPER PA-34-220T TIME -0- **RT ENGINE LOG N8460A** DATE NOV 11 /2015

INSTALLED RIGHT ENGINE S/N 1031278 WITH NEW ENG MOUNTS P/N 94008-01. ENGINE CAME COMPLETE WITH ALL ACCESSORIES, EXHAUST AND TURBO. MERLYN PRODUCTS INC. MANIFOLD CONTROLLER WAS OVERHAULED. AND REINSTALLED. REINSTALLED VACUUM PUMP AND ENGINE PRIMER. ALL FLUID CARRYING LINES CHECKED AND REPLACED AS NEEDED. SERVICED WITH 100 MINERAL OIL.. FUEL FLOWS CHECKED AND ADJUSTED AS NEEDED. RUNUP AND LEAK CHECKED OK.

HOBBS TIME 4863.0

SIGNATURE *Don L. Bailey* A 2072968**BAILEY'S AIRCRAFT SERVICE**

256 SOUTH MAIN ST. ~ PLEASANT GAP PA. 16823

PIPER PA-34-220T HOBBS 4863 TIME -0- **ENGINE LOG N8460A RT** DATE NOV 12 /2015

CONDUCTED A 100 HR. ANNUAL INSPECTION PER FORM. INSPECTED ALL FLUIDED CARRING LINES. SET IDEL AND FUEL PRESSURE. REBUILT ENG INSTALLED NOV 11 /2015

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION, AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

SIGNATURE *Don L. Bailey*
DATE NOV 12 /2015
A&P 2072968 IA

BAILEY'S AIRCRAFT SERVICE

814-359-2645

256 SOUTH MAIN ST. ~ PLEASANT GAP PA. 16823

570-748-3927

PIPER PA-34-220T

TIME 4878.0

RT ENG LOG N8460A

DATE JAN 14 /2016

COMPLIED WITH COMPRESSION CHECK, ALL CLY,S AT OR ABOVE 76/80. CHANGED OIL TO 20W 50 PHILLIPS OIL AND REPLACED CH48108 OIL FILTER. RAN ENG CHECKED OK. / AIRCRAFT RETURNED TO SERVICE.

Don L. Bailey AP2072968 A/I

BAILEY'S AIRCRAFT SERVICE

814-359-2645

256 SOUTH MAIN ST. ~ PLEASANT GAP PA. 16823

570-748-3927

PIPER PA-34-220T

TIME 4880.0

RT ENG LOG N8460A

DATE JUNE 23 /2016

REMOVED AND REPLACED RT ENG FUEL PUMP P/N R-649368-67A1 WITH NEW OVERHAULED PUMP, PER WARRRANTY CLAM. RAN ENG SET PRESSURES AS NEEDED. / AIRCRAFT RETURNED TO SERVICE.

Don L. Bailey AP2072968 A/I

Date: 10/29/2016	Model: PA34-200T	N8460A
Tach:	TTAF:	S/N 34-8233019

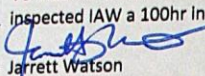
Removed existing dry air vacuum pump from R/H engine (P/N 442CW-6, S/N 6AT 307) and installed new Dry air pump (P/N AA442CW-6, S/N 0AR407) w/ a new LRT insert and new gasket on the R/H engine. Removed vacuum lines and purged, no carbon found. Installed new vacuum regulator filter (P/N ARB3-5-1). Function tested vacuum system for proper operation and oil leaks. System check normal and no leaks noted. All work done IAW Continental, Piper and Tempest Maintenance / Installation manuals.

Jarrett J Watson

A&P2710425IA

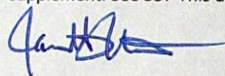
Carried forward →

LTSIO-360KB-6B S/N 1031279 TTSN 110.6 Installed on N8460A R/H Position 12-24-2016
Performed 100hr/Annual inspection IAW FAR Part 43, Appendix D, while using TCM and Piper Checklists.
Performed Cold compression check (Note: Master Orifice reading 42PSI), Compressions were as follows:
#1 68/80 #2 66/80 #3 74/80 #4 74/80 #5 72/80 #6 62/80. Verified Mag timing to engine. (Note: Engine
oil change and filter to be C/W at a later date due to low time on current oil/ Filter). Inspected all fluid
carrying hoses, lubed and inspected engine controls, inspected engine mounts, Propeller installation,
inspected exhaust system, and Upper deck control installation. All with no defects noted. Troubleshot High
EGT / CHT on #6 Cylinder. Cleaned injector and re-secured induction tubes common to the #6 Cylinder IAW
TCM O/H Manual Ch. 13 and Ch14. Cleaned engine, Ran aircraft. All indications normal at this time.
Verified AD's current as of this date using T-Data Bi-weekly 24-2016. I certify this engine has been
inspected IAW a 100hr inspection and found to be in an airworthy condition at this time.


Jarrett Watson
AP2710425IA

LTSIO-360KB-6B S/N 1031279 TTSN 143.2 Installed on N8460A R/H Position 6/1/2017

Performed Continuous Flow Fuel Injection Set up procedure on L/H and R/H engines IAW TCM SID 97-3
REV F Prior to installation of GAMI Injectors. Removed stock existing injectors on L/H and R/H engines.
Installed General Aviation Modifications INC (GAMI) turboGAMInjectors (Kit Number GT360-12D) S/N
26374 (L/H) and S/N 26375 (R/H) IAW STC (Number SE9401SC) per turboGAMInjectors Installation
Procedure No. IP-97-003. Leaked Checked installation, No leaks noted, Provided Owner with AFM
supplement. See 337 This date. Flight test and Flight "Lean Test" Required.


Jarrett Watson
AP2710425IA

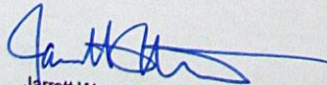
LTSIO-360KB-6B S/N 1031279 TTSN: 205.9 Installed on N8460A R/H Position 2/10/2018

Performed 100hr/Annual inspection IAW FAR Part 43, Appendix D, while using TCM and Piper Checklists.

- Performed Cold compression check (Note: Master Orifice reading 42PSI), Compressions were as follows: #1 72/80 #2 78 /80 #3 71 /80 #4 68 /80 #5 70 /80 #6 70 /80.
- Verified Mag timing to engine. Cleaned, tested, gapped and rotated engine sparkplugs, Re-installed using new gaskets, and torqued per TCM Overhaul manual. Function tested Ignition harness.
- Drained engine oil and removed and opened filter, No abnormalities noted. Installed New filter (CH48108) and Serviced engine with 8qts of Aersohell 100
- Inspected all fluid carrying hoses, lubed and inspected engine controls, inspected engine mounts, Propeller installation, Inspected exhaust system, and Meryln Upper deck control installation. All with no defects noted.
- Replaced and re-torqued leaking rocker box gaskets as required.

Cleaned engine, Ran aircraft. All indications normal at this time. Verified AD's current as of this date using AD toolbox, Via FAA Biweekly 2018-03. I certify this engine has been inspected IAW a 100hr inspection and found to be in an airworthy condition at this time.

I certify this engine has been inspected IAW a 100hr inspection and found to be in an airworthy condition at this time.


Jarrett Watson

AP2710425IA

Carried fo

LTSIO-360KB-6B
2/25/2018

S/N 1031279

TTSN: 205.9

Installed on N8460A R/H Position

-Performed Engine set up on Both engines IAW Turbo Plus Fuel set up procedure (dated June 30th 1988). Flight Tested Aircraft, Setup found to be satisfactory.

All work accomplished Per PA34 maintenance manual, TCM, and Turbo Plus Service Info. I certify this engine is in an airworthy condition and approved for return to Service.

Jarrett Watson
A&P 27104251A

- AP27104251A

10/14/18

Change oil. Hobbs time 062.1
Drain oil. Change filter w/ Torquest 48108.
Safe tie filter & plug. Fill w/ 8qts Phillips XE
20-50. Run-up. No leaks.

1/28/2019

N8460A

TCM TSIO 360KB

Right Engine Logbook

Hobbs Hours: 73.7

100 hr. Inspection completed this date in accordance with Piper Maintenance Manual and 14CFR Part 43 Appendix D. Lubricated cables, hinges and pulleys. Checked magneto timing and engine compressions. Left engine: 1) 72 2) 72 3) 68 4) 70 5) 72 6) 70/80 PSI. Right Engine: 1) 62 2) 62 3) 62 4) 60 5) 60 6) 69/80 PSI. Minimum cylinder leakage limit is 45 PSI per TCM SB M84-15. Cleaned and gapped spark plugs. Checked ELT operation in accordance with 14CFR Part 91.409 (a). ELT battery due 10/19. O2 bottle due 12/21.

Replace bad pressure hoses on right engine magnetos.

Replace leaking crush washers on right engine.

Right engine #1 cylinder leaking oil, remove valve cover and replace gasket.

Right engine turbo oil return line leaking, remove and re-clock end, torque both hose end fittings.

See AF log for AD Compliance.

I certify that this Engine has been inspected in accordance with a 100 hour inspection and was determined to in an airworthy condition.

Signed

James Wrenn A&P 27248101A



Carried forward

CRABTREE AIRCRAFT COMPANY
520 AIRPORT ROAD
GUTHRIE-EDMOND REGIONAL AIRPORT
GUTHRIE, OKLAHOMA 73044

N8460A

Hobbs 130.5

10/17/2019

CHANGE OIL AND FILTER. SERVICE WITH 8 QUARTS PHILLIPS
20X50 AND CHAMPION CH48108-1 FILTER. CHECK FILTER FOR
CONTAMINATION, NONE FOUND. RUN ENGINE AND CHECK FOR
LEAKS, NONE NOTED.

Quin Harvey
QUIN HARVEY
A&P 446423169

2/1/2020

N8460A

Piper Seneca

Right Engine Logbook

Hobbs 278.5

-JPI Hobbs AF: 155.5

100 Hour Inspection completed this date in accordance with Piper Maintenance Manual and 14CFR Part 43 Appendix D. Lubricated cables, hinges and pulleys. Checked magneto timing and engine compression

Right: #1 78/80, #2 70/80, #3 68/80, #4 64/80, #5 60/80, #6 62/80.

Right engine oil temp inop (factory). Bad connection at probe. Replaced connector.

Right engine all valve covers leaking. Replaced 12 gaskets, test ran engine, no leaks.

Right engine timing incorrect. Re-set left and right mag timing to 20 degrees.

Right engine brush block missing top nut. Installed nut.

Right engine turbo oil return line leaking. Removed line, reflared end and reattached. Test ran engine, no leaks.

Borescope right engine. Borescope of right engine, no abnormal wear noted at this time.

Right engine manifold pressure line loose at engine causing intake leak. Fitting Reflared and re-attached.

I certify that this Engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

Signed

James Wrenn A&P 2724810 IA



Oil Change - Hobbs time 240.9
Drain oil. Replace filter with Champion 48108
Safety tie filter & plug. Fill w/ 8 quarts Phillips 20-50
Run check. No leaks.

3/4/2021

N8460.A

Piper PA34-220T

Right Engine Logbook

e Record

Hobbs Hours: 245.0 :: Tach Hours: 5323 ACTT

100 hr. Inspection completed this date in accordance with Piper Maintenance Manual and 14CFR Part 43 Appendix D. Lubricated cables, hinges and pulleys. Checked magneto timing and engine compression. Right engine: 1) 64 2) 65 3) 52 4) 65 5) 54 6) 70/80 PSI. Minimum cylinder leakage limit per TCM SB 03-3 is 45/80 PSI. Replaced engine inlet air filter with new.

Wastegate controller heat shroud clamp and bracket broken on tailpipe. Removed and repaired heat shroud bracket. Replaced clamps with serviceable clamps, new clamps are on order.

I certify that this Engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

Signed

James Wrenn A&P 2724810 IA



5/4/2021

N8460A

Piper PA34-220T

Right Engine Logbook

Hobbs Hours: 259.3

Replaced turbo control heat shield clamp with new. Reassembled exhaust.

The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.

Signed

James Wrenn A&P 2724810 IA



Oil Change 1/30/22 Hobbs time 310.2
 Drain oil. Replace filter w/ Tenax 48108
 Safety tie filter & plug. Fill w/ 8 qt Phillips VC 20-50
 Run check - No leaks

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9/29/2022

N8460A

Piper PA34-220T

Engine 2 Logbook

Hobbs Hours: 332.4 :: Aircraft TT: 5385.4 :: #2 Engine SMOH: 522.4

Annual inspection completed this date in accordance with Piper Maintenance Manual and 14CFR Part 43 Appendix D. Lubricated cables, hinges and pulleys. Checked magneto timing and engine compression Right: 1. 64/80, 2. 56/80, 3. 44/80, 4. 66/80, 5. 24/80, 6. 58/80. Left: 1. 64/80, 2. 54/80, 3. 40/80, 4. 50/80, 5. 60/80, 6. 52/80. Checked ELT operation in accordance with 14CFR Part 91.409 (a). ELT due 09/2024. O2 bottle due 2026.

Right turbo controller sticky. Trouble shot system and lubricated controller with antisieze.

Right engine #6, #4, and #2 exhaust valve covers leaking. Removed valve cover gaskets and replaced with new.

Right engine left upper deck pressure line hitting intake tube. Installed a rubber pad.

Both engines magnetos due 500hr. inspection. Removed and inspected only the right magneto on each engine.

Replaced coils, points, carbon brushes, all gaskets with new. Reinstalled magnetos and timed to engine.

Left and right engine spark plugs need to be replaced. Replaced bottom spark plugs on both engines with new.

Right Engine #3 cylinder leaking past exhaust valve. Removed valve cover, spring keeper and springs to lap in valve. Performed compression check. Still 20/80. Removed cylinder, found exhaust valve bad, valve guide out of round.

Right engine #5 leaking past exhaust valve. Removed exhaust valve cover and valve train, lap in valve. Found bad valve seat. Removed cylinder and found the valve was bad and valve seat is bad.

Installed repaired cylinders on right engine. Gapped new rings IAW Service Letter L05-09B. Installed rings on existing pistons and installed cylinder #3 and #5 with gasket supplied with cylinders and reassembled engine.

Both engines, drained oil and removed old oil filters. Replaced oil filters with new and serviced each engine with 8 qts of AeroShell 100 Mineral oil.

Test ran engine, all operational checks ok.

I certify that this Engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

Signed

James Wrenn A&P 2724810 IA



11/16/2022

N8460A

Piper Seneca

Right Engine Logbook

Hobbs Hours: 335.4

Right engine #1 cylinder shows no CHT or EGT. Remove engine cowling, remove #1 injector. Flow checked line and injector. Flow check OK. Re-assembled and test run. All temps on right engine good on the ground run. Removed cowlings and checked fuel system and pressures. Adjusted ideal mixture to a 50RPM rise. Adjusted low fuel pressure at 700 RPM up to 6.5. Adjusted high fuel pressure up to 34 on the ground run. Engine still runs rough, fuel flow will not stabilize.

Removed fuel pump, fuel controller and flow divider to send to Aircraft Accessories for repair.

Re-install fuel pump, fuel controller and flow divider after overhaul by Aircraft Accessories.

Test run engine to check fuel pressures, idle and idle RPM rise.

Removed wastegate controller for overhaul by Merlyn Products Inc.

Installed controller after overhaul, and tailpipe.

The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.

Signed

Jeff Washburn A&P 2784430 IA



wo: WO_161

Engine R - page 1 of 2



Wrenn Aviation LLC · 1026 S. 66th. St. · Enid, Oklahoma 73701 · 580-478-8847

N8460A
HOBBS: 390.5CONT MOTOR, TSIO-360 SER, S/N: 1031279
SMOH: 580.5

October 16, 2023

100 Hour Inspection completed this date in accordance with TCM MM. Checked magneto timing and engine compression: 1: 62/80 #2: 58/80 #3: 62/80 #4: 64/80 #5 62/80 #6 60/80.

Removed LT magneto and performed a 500 hour inspection. Replaced condensers, contact points, and felts with new. Reinstalled and timed. Operational check, OK.

Troubleshoot engine CHT gauge. Replace sending unit with new. Operational check, OK.

Secured prop deice wires.

Engine had oil leak. Tightened all oil fittings.

#6 bottom fuel primer line rusted. Cleaned and reinstalled with fire sleeve.

Engine baffle cracked. Fabricated plate and repaired crack.

#2 push rod tube seal leaking. Removed and replaced seal with new. Test ran engine. No leaks noted.

Replaced RT engine Magneto Pressurization Hose with new.

wo: WO_161

Engine R - page 2 of 2



Wrenn Aviation LLC · 1026 S. 66th. St. · Enid, Oklahoma 73701 · 580-478-8847

I certify that this engine has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

James Wrenn A&P IA AP2724810

11/28/23 397.4

Drained oil. Remove oil filter and replace w/ Torquest 48-108. Safety tie. Filled w/ 8 qts Phillips XC 20-50 w/ Cam Guard. Run check, No leaks

4/21/24 425.0

Remove + Replace spark plugs 3U, 4L, 5U. with Torquest

9/5/24 452.5

Drain oil sump. Remove oil filter and replace w/ new Torquest 48-108 filter. Safety tie. Reinstall snap plug + safety tie. Fill sump w/ 8 qts Phillips XC 20-50, plus Cam Guard additive. Run check - no leaks
WC Grogan

wo: WO_420



Engine R - page 1 of 2

Wrenn Aviation LLC · 1026 S. 66th. St. · Enid, Oklahoma 73701 · 580-478-8847

CONT MOTOR, TSIO-360 SER, S/N: 1031279

November 19, 2024

N8460A

TACH: 391.9 Hobbs: 458.9

100 Hour Inspection completed this date in accordance with Piper Maintenance Manual and 14CFR Part 43 Appendix D. Lubricated cables, hinges and pulleys. Checked magneto timing and engine compression. #1:60/80 #2:62/80 #3:64/80 #4:55/80 #5:72/80 #6:75/80 (after cylinder replacement). Minimum cylinder leakage limit is 45/80 per TCM SB03-3.

Cut old oil filter and checked for contaminants. None found.

Adjusted right engine high end fuel pressure.

Set magneto timing to 20 degrees BTDC.

Removed and replaced fuel pump main line grommet with new.

Removed and replaced valve cover gaskets on cylinders #2 and #4.

Removed and replaced exhaust gasket on cylinder #1 with new.

Removed and replaced #6 cylinder with new (P/N: 658822A2).

wo: WO_420



Engine R - page 2 of 2

Wrenn Aviation LLC · 1026 S. 66th. St. · Enid, Oklahoma 73701 · 580-478-8847

Removed and replaced leaking vernatherm gasket with new.

Removed and replaced leaking pushrod tube gasket on cylinder #2 with new.

Cleaned and gapped spark plugs.

I certify that this Engine has been inspected with a 100 Hour Inspection and was determined to be in an airworthy condition.

James Wrenn A&P IA AP2724810

1-20-26

Tach-516

TSIO-360 S/N-1031279

Tightened all exhaust manifold nuts.

Compression - 62, 45, 62, 66, 62, 78/80

Adjusted fuel pressure IAW

Continental TSIO-360 service manual,

Inspected engine IAW 100hr/Annual

inspection using Continental Service

manual & FAR 43-APP D.

Engine is in airworthy condition

and is returned to service.

Jonathan Bryant A&P IA 4486626

06/25/2026 Hobbs: 538.4 TT 705.6 TSIO-360 SN-1031279

Removed #2 cylinder due to high CHT and compression. Installed overhauled cylinder from Gibson Aviation. Part number 658602. S/N 120963, AC16JC294

Test ran engine and checked for leaks, test flew for 45 minutes and checked for leaks or loose fasteners. Engine is returned to service.

Jonathan Bryant



4486626 A&P IA