



Continental Motors

FAA PRODUCTION CERTIFICATE NO. 508

Printed: 09/29/2015

Test Date: 09/29/2015

This engine model TSI0360KB10B, serial number 1031278 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- **LT ENGINE LOG N8460A** DATE NOV 12 /2015

INSTALLED LEFT 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 Alan Z Bailey I/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 LT** DATE NOV 12 /2015

CONDUCTED A 100 HR. ANNUAL INSPECTION PER FORM. INSPECTED ALL FLUIDED CARRYING 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 Alan Z 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 **LT 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.

Alan Z Bailey

AP2072968 A/I

TSIO360KB10B S/N 1031278 TTSN 110.6 Installed on N8460A L/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 64 /80 #2 76 /80 #3 75 /80 #4 69 /80 #5 76 /80 #6 76 /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 Meryln Upper deck control installation. All with no defects noted. 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 a airworthy condition at this time.

Jarrett Watson
Jarrett Watson
A&P2710425IA

Carried forward →

TSIO360KB10B S/N 1031278

TTSN 143.2

Installed on N8460A L/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
A&P2710425IA

TSIO-360KB-10B S/N 1031278
2/10/2018

TTSN: 205.9

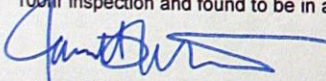
Installed on N8460A L/H position

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 68 /80 #3 78 /80 #4 61 /80 #5 74 /80 #6 73 /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 Meryl'n 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.



Jarrett Watson
A&P2710425IA

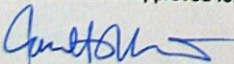
TSIO-360KB-10B S/N 1031278
2/25/2018

TTSN: 205.9

Installed on N8460A L/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&P2710425IA

Carried forward →

10/14/18

Oil change. Hobbs time 062.1
Drain oil. Replace filter w/ Tempst 48108
Safety filter & plugs. Fill w/ 8 qts Phillips
XC 20-50. Run-up. No leaks.

1/28/2019

N8460A

TCM TSIO 360KB

Left Engine Logbook

Hobbs Hours: 73.7

100hr. 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. Turn down hi side fuel pressure on left engine. Set fuel pressure IAW TCM Manual M-0. Left engine top cowl air inlet has a hole worn through it. Installed fiberglass patch over hole. Left engine #1 and #3 cylinder exhaust valve covers leaking. Re-torqued valve covers, gasket ok. Replace leaking crush washers on left engine. 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 be in an airworthy condition.

Signed

James Wrenn A&P 2724810IA



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

N8460A

10/17/2019

Hobbs 130.5

**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

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2/1/2020

N8460A

Piper Seneca

Left 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 Left: #1 72/80, #2 60/80, #3 58/80, #4 62/80, #5 72/80, #6 60/80.

Check Left engine fuel pressure. Cleaned left and right fuel strainers. Set fuel pressure on left engine in accordance with TCM MSB 97-3E. Right engine ok.

Borescope left engine. Borescope of left engine. no abnormal wear noted at this time.

Found left engine fuel servo rod end jam nut and linkage loose. Tightened jam nut, linkage and cotter keyed.

Left engine prop control linkage loose at governor. Tightened linkage and saftied.

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



3/8/2020

N8460.A

Piper PA34-220T

Left

Right Engine Logbook

Hobbs Hours: 165.5

Replaced right engine vacuum pump with owner supplied pump. Operational check OK

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 - Hobbs time 240.9

Drain oil. Replace filter with Champion 48-108

Safety tie filter & plug. Add 8 quarts Phillips XC 20-50

Run check. No leaks

Oil Change 11/30/12 Hobbs time 310.2

Drain oil. Replace filter w/ Tampo 48108

Safety tie filter & plug. Add 8 qts Phillips XC 20-50

Run check - no leaks

3/4/2021

N8460.A

Piper PA34-220T

Left Engine Logbook

Hobbs Hours: 245.0 :: Tach Hours: 5323 ACTT

Engine 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 Left engine: 1) 64 2) 65 3) 55 4) 68 5) 75 6) 58/80 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

Left Engine Logbook

Hobbs Hours: 259.3

Replace 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



9/29/2022

N8460A

Piper PA34-220T

Engine 1 Logbook

Hobbs Hours: 332.4 :: Aircraft TT: 5385.4 :: #1 Engine SMOH: 522.4

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 Left: 1. 64/80, 2. 54/80, 3. 40/80, 4. 50/80, 5. 60/80, 6. 52/80.

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.

Left engine, #3 cylinder, 40/80, leaking past exhaust valve. Removed cylinder. Found exhaust valve and seat worn. Re-Installed cylinder after repair by Gibson Aviation.

Removed all hydraulic valve lifters in left engine and replaced with new due to wear on existing lifters.

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.

Removed FCU for repair. P/N R640563, S/N A151A081R

Removed fuel pump for repair. P/N 649368, S/N B151A099R

Reinstall fuel system components after return from Aircraft Accessories.

Test run engine and check high fuel pressure and low fuel pressure are within spec. Adjust idle RPM to 700.

Test run could not get idle mixture to set on original throttle body. Installed replacement throttle body from Aircraft Accessories. P/N 640563, S/N A08HA147R. 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



Car

Engine L - page 1 of 2

wo: WO_161



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

N8460A
HOBBS: 390.5CONT MOTOR, TSIO-360 SER, S/N: 1031278
SMOH: 580.5

October 16, 2023

100 Hour completed this date in accordance with TCM MM. Checked magneto timing and engine compression: 1: 64/80 #2: 70/80 #3: 62/80 #4: 70/80 #5: 60/80 #6: 58/80.

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

Removed and shipped engine turbo waste gate controller. Reinstalled after repair.

Secured prop deice wires.

Engine oil lines leaking at fittings. Cleaned and tightened fittings.

Scat hose to alternator cracked. Removed silicone and replaced hose with new.

#4 & #6 Fuel primer lines rusted. Cleaned and reinstalled with fire sleeve.

wo: WO_161

Engine L - 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/new Tempest 48-108 and safety tied. Filled w/8qts Phillips 7C 20-50 oil plus Cam Guard. Run checks. No leaks

wo: WO_199

Engine L - page 1 of 1



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

N8460A
TACH: 391.9

CONT MOTOR, TSIO-360 SER, S/N: 1031278

December 27, 2023

1. Troubleshoot wastegate operation and fuel flow on left engine.
2. Cylinder #1 exhaust cracked around cylinder flange. Installed P/N 640964-101 - Exhaust Tee.
3. #2 cylinder has leaking intake gasket. Replaced with new.
4. Removed all pressure lines going to wastegate, cleaned and re installed.
5. Set fuel pressure and mixture IAW AMM. Low side unmetered is @ 7 PSI @ 700 RPM. High side unmetered is @ 39 PSI @ 40 in. MP.

With respect to the work performed, this engine I is approved for return to service. Details of work performed are on file with Wrenn Aviation LLC under work order: WO_199.

James Wrenn A&P IA AP2724810

Ct

wo: WO_208

Engine - page 1 of 1



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

N8460A
HOBBS: 391.9

CONT MOTOR, TSIO-360 SER, S/N: 1031278

January 05, 2024

Left Turbo wasn't boosting. Removed wastegate, found turbine wheel very difficult to rotate. Removed turbocharger for repair. Turbo center section bearing housing was bad. Replaced housing with serviceable unit. Replaced seals, bearings, gaskets, shaft nuts and clamp nuts with new. Installed turbo on aircraft, test ran, aircraft, operational check ok.

I certify that the maintenance on this Engine identified above was accomplished IAW TCM service manual and is approved for return to service.

James Wrenn A&P IA AP2724810

9/5/24 452.5 Drain oil sump. Remove oil filter and replace with new tempest 48-108 filter and safety tie. Re install sump plug + safety tie. Fill sump with 8 qts of Phillips XG 20-50 oil. plus Cam Guard additive. Run check. No leaks
WS Jyr

wo: WO_420

Engine L - page 1 of 1



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

N8460A

CONT MOTOR, TSIO-360 SER, S/N: 1031278

November 19, 2024

TACH: 991.9 Hobbs: 458.9

100 Hour Inspection completed this date in accordance with TCM Service Manual and 14CFR Part 43 Appendix D. Lubricated cables, hinges and pulleys. Checked magneto timing and engine compression #1:75/80 (after cylinder replacement) #2:62/80 #3:60/80 #4:50/80 #5:70/80 #6:70/80. Minimum cylinder leakage limit is 45/80 per TCM SB03-3.

Cut old oil filter, and inspected for contaminants. None found.

Cylinder #1 leaking oil from exhaust port. Found cylinder to be cracked. Removed and replaced #1 Cylinder with new (P/N: 658822A2).

Cleaned and gapped spark plugs.

I certify that this Engine has been inspected in accordance 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 TSI O 360 SIA-1031278

Checked all exhaust nuts for correct torque.

Compression - 78, 54, 50, 58, 70, 70 / 80

Inspected in IAW 100hr / Annual inspection using Continental TSI O 360 service manual & FAR 43 app D.

Engine is in airworthy condition & is returned to service.

Jonathan Bryant ADPIA 4486626

AB