

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.)
JULY 10 2000	-0-	-0-	-0-	CONTINENTAL TS10-550-E(3) S/N 803102 INSTALLED ON LANCAIR IV-P, S/N IVP-388 WITH MT PROPELLER MTV-14-D S/N 000006 DAVID SCHRODER [REDACTED]
JULY 18 2000			0.5	REMOVE ABOVE ENGINE/SHIP TO CONTINENTAL
NOV 11 2000			0.5	INSTALL CONTINENTAL TS10-550-E(3) S/N 803138 ON LANCAIR IV-P, S/N IVP-388 WITH MT PROPELLER MTV-14-D, S/N 000006 DAVID SCHRODER [REDACTED]
	CONDITION INSPECT. COMPLETED THIS DATE			
JAN 6 2001	HOBBS 9.6	HOBBS 9.6 10.1		CHANGE OIL & FILTER, ADD 12 QT SHELL STRAIGHT MINERAL OIL 100W, INSPECT OIL FILTER ELEMENT, INSTALL CHAMPION CH48109 FILTER DAVID SCHRODER [REDACTED]

YEAR: DATE	RECORDING TACH TIME
2001/02	
5/9	34
8/5	83
01/04/02	

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YEAR: 2001 DATE 10/02	RECORDING TACH TIME 34.1	TODAY'S FLIGHT	TOTAL TIME IN SERVICE 34.1	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.) CHANGE OIL & FILTER, ADD 12QT SHELL 100W, INSPECT OIL FILTER ELEMENT, INSTALL CHAMPION CH 48109 FILTER
8/5	83.2		83.2	CHANGE OIL + FILTER, ADD 12QT SHELL 100W INSPECT OIL FILTER ELEMENT, INSTALL CHAMPION CH 48109 FILTER
01/04/02	96.1		96.1	ANNUAL CONDITION INSPECTION COMPLETED THIS DATE. ROUTINE SERVICE AND INSPECTION, NO ANOMALIES FOUND. COMPRESSION 1 1/2 2 3/4 4 5 6 7 8 9 10 HOT SPARK PLUGS R/R CLEANED, GAPPED, ROTATED CONT.

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.)
1/4/02	96.1		96.1	CONT./ OIL & FILTER CHANGED, ADDED 11 QT SHELL 100, FILTER ELEMENT INSPECTED/NORMAL. AIR FILTER OK FOR CONTINUED SERVICE. AD'S HSB, COMPLIED WITH THROUGH GROUND RUN AND RETURNED TO SERVICE IN AIRWORTHY CONDITION. [REDACTED] [REDACTED]
4/8/03	132.0		132.0	ANNUAL CONDITION INSPECTION COMPLETED THIS DATE. ROUTINE SERVICE AND INSPECTION, NO ABNORMALITIES FOUND. COMPRESSION 1 2 3 4 5 6 68 TO 70 70 66 70 68 OVER 30 HOT, SPARK PLUGS R/R, GAPPED, ROTATED, OIL & FILTER CHANGED, ADDED 11 QT

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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.)
8-5-03	173.5		173.5	ANNUAL CONDITION INSPECTION PERFORMED. CLEANED, GAPPED, TESTED & ROTATED SPARK PLUGS. REPLACED AIR FILTER. ROTATED STARTER 180° & REPLACED CABLE. ADJUSTED MAP CONTROLLER 1/8 TURN OUT, ADJUSTED PROP GOVERNOR 1/2 TURN OUT. COMPRESSIONS #1-68/80, #2-72/80, #3-70/80, #4-73/80, #5-72/80, #6-74/80. OK FOR RETURN TO SERVICE. [REDACTED] [REDACTED] IA
8-5-03	173.5		173.5	ALL OUTSTANDING A.D.'S COMPLIED WITH [REDACTED] [REDACTED] A

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YEAR: RECOF
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Engine Log

Date: 07-11-08	Make: Cont.	Model: TSIO-550	S/N: 17043
Tach:	Hobbs: 406.3	TSMO: 406.3	

REMOVED FUEL INJECTOR NOZZLES FROM CYL'S #1 THROUGH CYL'S #6. CLEANED, INSPECTED AND RE-INSTALLED WITH NEW O-RINGS, P/N AS3578-010, AND SEALS, P/N 640612. TIMED MAGNETOS TO ENGINE IAW CONTINENTAL MM. LEAK AND OPERATIONAL CHECK SATISFACTORY.

DANIEL GOWE A/P I/A

Work accomplished at Santa Fe Aero Services, LLC. Reference work order #562

Technician or Repair

YEAR:	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
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DATE

MAKE	CONTINENTAL	MODEL	TSIO-550-E	S/N	803138
Total Time:	490.7	Hours		Time Since Major Overhaul:	N/A
				Hours	

The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. (As detailed below) Pertinent details of repair are on file at this repair station under:

Work Order # 2143 **Date** 12/18/2008

Disassembled, cleaned and inspected engine due to propeller strike, in accordance with Teledyne Continental SB96-11. Reinstalled cylinders after repair, see maintenance release tag for more details. Installed magnetos, left P/N 6320, S/N 00053563, right P/N 6320, S/N 00053565, after 500 hour inspection by Poplar Grove Airmotive. Inspected alternator drive coupling I/A/W TCM SB M89-5. This engine was test run for two hours in an FAA approved test cell and meets specifications. See attached A.D. Compliance Report and Parts List for more details. -----END-----

Poplar Grove Airmotive, Inc.

Michael A. Carey

Signed for Poplar Grove Airmotive, Inc.

YEAR:	REC TAC TIM
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MANUFACTURER

AD #

93-10-02

96-12-22

99-19-01

00-23-21

#04-08-10

07-16-10

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YEAR:	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.)
MANUFACTURER: Continental				ENGINE MODEL: TSIO-550-E S/N 803138 WO# 2143
AD #	DESCRIPTION			COMPLIANCE STATUS
93-10-02	cylinder			C/W by inspection I/A/W par (d)
96-12-22	Cessna oil filter adapter			N/A by P/N adapter
99-19-01	crankshaft			N/A by crankshaft S/N
00-23-21	crankshaft			N/A by crankshaft S/N
#04-08-10	cylinder			N/A by cylinder manufacturer
07-16-10	turbocharger failure			To be C/W by installing agency
Poplar Grove Airmotive, Inc.				
				Date: 12/18/2008

YEAR:	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.)
DATE				
Make: TCM		Model: TSIO-550-E		Serial: 803102
Tach T: 514		Engine TT: 514		
Secured RH TIT connections. Performed SID97-3E fuel system set up. Verified correct mag timing. RR engine driven fuel pump out for overhaul. Compressions are as follows: 1-69, 2-68, 3-63, 4-61, 5-75, 6-70.				
February 8, 2011		[Redacted]		
Sam Meier		[Redacted]		

[illegible]

ian or Repair

YEAR:

DATE

Make: TCM

Model: TSIO-550-E

Serial: 803102

r Repair

Tach T: 514

Engine TT: 514

Changed oil and serviced with new Exxon Elite 20W 50 oil. Leak checked good. Cut open oil filter, inspected, good.

February 8, 2011

Sam Meier

Make: TCM

Model: TSIO-550-E

Serial: 803102

Tach T: 514

Engine TT: 514

I certify this engine has been inspected in accordance with a condition inspection and determined in a condition for safe operation this date.

February 8, 2011

David P McRae

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.)
	Make: TCM	Model: TSIO-550-E	Serial: 803102	
	Tach T: 605	Engine TSMOH: 0	ENGTT: 605	
	Removed engine, overhauled by Barrett Precision Engines under wo 11297, and reinstalled on aircraft.			
	Removed all baffling, inspected and powder coated all parts. Installed all new Barry engine isolators.			
	Serviced engine with 11 quarts of aeroshell MINERAL oil. Installed new air conditioning compressor bracket. Installed new Pn RA00027 lower center baffle piece. Replaced all engine soft seal baffling and sealed all cooling gaps. Installed #2 baffle piece Pn RA00006. Completed engine set up IAW TCM SID97-3E. All operational and leak checks completed with no defects noted.			
	I certify this engine has been inspected in accordance with a condition inspection and determined in a condition for safe operation this date			
	Dec 7, 2012			
	Nate Williamson			

[illegible]

Engine Record General Information

Manufacturer TCM

Model TS1D-550-EXP

Serial BPE-11297

Type Certificate _____

This engine is currently installed in aircraft: N366TF

Minimum Octane Fuel _____

Oil Grade Summer _____

Winter _____

Magneto Time _____

Point Setting _____

Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

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YEAR
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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.)

EXPERIMENTAL

Log Book Entry

Engine Model: TSIO-550X

Serial Number: 803138

Date: 10/15/12

TSN: Unk - 605.0

W.O. 11297

TSO: 0.00

WARNING! This engine is not type certified and is to be installed and operated in EXPERIMENTAL type aircraft ONLY! Engine disassembled, inspected and reassembled IAW TCM OHM X30616A and PC X30615A. See parts list 11297 for parts used.

Sublet

Vendor

Repair Station

Component

ACA

HT2R884K

cylinder bore plating

ASSI

DD2R764K

Starter gear, cam, crank,

Starter shaft, r/a's, rods

A/C Acc

RV3R829L

governor

QAC

QYIR334Y

Alternator

Drake Air

II2R899K

inner cooler, oil cooler

Hartzell

1HZR769B

starter

ATC

O7TR210O

turbo system

CSI

H1HR096O

crankcase

Great Plains

1GP022B

fuel system

United Plating

FA2R813K

external hardware

SB, MSB Compliance

SB 00-3

counterweight installation

SB 96-7C

torque values

SB 97-6

mandatory replacement parts

Cylinder barrels have been nickel plated and 6 each CN110 ring sets installed in these cylinders.

Engine tested after assembly. See test cell report dated 9/27/12.

Fuel system and manifold pressure to be calibrated after installation in aircraft. See latest revision of SID97-3

Details of this overhaul are on file at this facility under W.O. 11297.

For information about this engine contact:

Thomas A. Barrett, authorized signature
FAA-CRS

YEAR 20 13 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.)
02 APR	640.4		640.4	Drained oil and changed filter CH48109-1. Serviced with 12 gts. Aeroshell 15W-50 oil. Test ran engine. No leaks noted. All ops normal. [REDACTED] PSEL
22 APR	657.2		657.2	Removed and replaced oil pressure transducers with EI PT100-GA. Test ran. No leaks found. Oil pressure indication normal [REDACTED] PSEL
26 APR	657.4		657.4	04-26-2013 WO 22378 IV-P SN LIV388 N366TF TACH 657.4 Adjusted prop governor (RPM). Adjusted manifold pressure. A&P [REDACTED] [REDACTED] Arizona Air-Craftsman [REDACTED] Jay A. Karger

YEAR
20
DATE
5/22/13

8/29/13

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.)
5/22/2013	660.4		660.4	DRAINED OIL AND CHANGED FILTER PN: CH48109-1. SERVICED WITH 15/50 ACRO-SHELL DET. OIL, REMOVED OIL PUMP COVER PLATE - RE-SEALED W/ SILK THREAD. TORQUED COVER PLATE TO 100-110 IN LBS. TEST RAN ENGINE - NORMAL TEMPS & PRES. NO LEAKS NOTED. INSTALLED NEW A/C COMPRESSOR BRACKET.
8/29/13	685.2		685.2	Drained oil and changed filter CH48109-1. Serviced with 12 quarts Acroshell 15W-50 oil. Test ran engine. No leaks noted. All ops normal. PSEL

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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Date: November 6, 2013 **Tach:** 426.9
N366TF **Aircraft Total Time:** 711.7

I Certify That This Engine Has Been Inspected IAW A Lancair Insurance Inspection & Condition Inspection, Using A Lancair Condition Inspection Checklist, The Condition Inspection
 Is In Accordance With The Scope And Detail of 14 CFR Part 43, Appendix D And Found To Be In Condition For Safe Operation At This Time. Refer To Discrepancy Log Dated November 6, 2013 For A List Of Completed Repairs.

 Tim Rivera A&P _____
 Performance One Aviation, Inc



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N366TF
TACH 426.9

ADJUSTED FUEL PRESSURE 1AW
SIDEITE. GROUND RUN; OPS CHECK
GOOD.

YEAR 20 <u>14</u> 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.)
2/26/14			736.8	Drained oil and changed Filter CH 48109-1. Service with 12 qts. Acrosnell 15W50. Test ran engine. No leaks noted. All ops normal. [REDACTED] PSEL U
04/04/14			760.0	Drained oil and changed Filter CH 48109-1. Serviced with 12 qts. Acrosnell 15W-50. Test ran engine. No leaks noted All ops normal. Performed compression check: #1-76, #2-76, #3-74, #4-16, #5-77 #6-77. Inspected exhaust valves with borescope - all valves appeared normal [REDACTED] PSEL U

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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.)
				Tach/Hobbs: <u>485.53</u> Registration #: <u>N366TF</u> I certify that this engine has been inspected on <u>25 July 14</u> in accordance with the scope and detail of 14 CFR part 43, Appendix D and found to be in a condition for safe operation.  Performance One Aviation ENGINE = 797.0

YEAR 20 <u>14</u> 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.)
10/1/14			837.9	Drained oil & changed Filter CH48109-1. Serviced with 12 qts. Aeroshell 15W-50. Test ran engine. No leaks noted. All ops normal [REDACTED] PSEL
7/10/2015				
TACH	544.23			
HOBBS	854.75			DRAINED OIL & CHANGED FILTER #CH48109-1 SERVICED WITH 15/50 AERO- SHELL. REPLACED 45° STREET ELBO IN TURBO SCAVANGE LINE, REPLACED ALL ROCKER BOX GASKETS W/NEW REIL GASKETS, TEST RAN, ALL OPS & TEMPS NORMAL [REDACTED] #P

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YEAR 20	RECORDING TACH	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
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Make: TCM Type: TSIO-550-E Serial: 803138 ETT: 865.4 TSO: 260.4

Compression check s as follows: 1-75, 2-68, 3-73, 4-64, 5-63, 6-68, all over 80. Magnetos timed to 24 degrees BTC. Performed SID-97 engine setup.

November 5, 2015
James Stewart III

Make: TCM Type: TSIO-550-E Serial: 803138 ETT: 865.4 TSO: 260.4

I certify this engine has been inspected in accordance with a condition inspection and determined in a condition for safe operation this date.

November 5, 2015
James H Stewart III

Make: TCM Type: TSIO-550-E Serial: 803138 ETT: 869.8 TSO: 264.8

Drained oil. Removed oil filter, cut open and inspected, no defects noted. Installed new oil filter. Serviced with 11 quarts of Aeroshell 15W-50. Ops and leak checks performed with no defects noted.

November 12, 2015
Jon Hullsiek

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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.)

DATE: 20 Dec 2016
REG #: N366TF

ETT: 905.14
MAKE: Teledyne Continental

TSOH: 300.14
MODEL: TSIO-550-E (3)

TACH: 584.86
S/N: 803138

Drained oil, removed oil filter, cut open and inspected, no defects noted. Installed new oil filter CH48109-1 and safety wired. Serviced with 11 quarts of Aeroshell 15W50 oil. Ran and leak checked engine, no abnormalities noted. Replaced two missing screws on cylinder number five valve cover.

Jonathan C. Hullsiek

DATE: 1 Jan 2016
REG #: N366TF

ETT/AFTT: 908.43
MAKE: Teledyne Continental

TSOH: 303.43
MODEL: TSIO-550-E (3)

TACH: 303.43
S/N: 803138

*** INFO NOTE ***

TACH time on MVP-50 was changed from 587.43 to 303.43. This change was made to reflect as close to actual TACH time since major overhaul performed at 605.0 hours ETT/AFTT on 12 October 2012 as possible. From this date forward TACH time as read on the MVP-50 will indicate TACH time since major overhaul. MVP-50 starts adding ETT/AFTT ≥ 350 RPM and TACH time $\geq 1,190$ RPM.

Jonathan C. Hullsiek

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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DATE: 21 MAR 2016 ETT: 946.14 TSOH: 334.50 TACH: 334.50
 REG #: N366TF MAKE: Teledyne Continental MODEL: TSIO-550-E (3) S/N: 803138

Drained oil, removed oil filter, cut open and inspected, no defects noted. Installed new oil filter CH48109-1 and safety wired. Serviced with 11 quarts of Aeroshell 15W50 oil. Ran and leak checked engine, no abnormalities noted. Replaced left TIT probe with Electronics International P/N P-112.

Jonathan C. Hullsiek

DATE: 2 JUL 2016 ETT: 981.24 TSOH: 362.60 TACH: 362.60
 REG #: N366TF MAKE: Teledyne Continental MODEL: TSIO-550-E (3) S/N: 803138

Drained oil, removed oil filter, cut open and inspected, no defects noted. Installed new oil filter CH48109-1 and safety wired. Serviced with 11 quarts of Aeroshell 15W50 oil. Ran and leak checked engine, no abnormalities noted. Inspected and reinstalled air filter.

Jonathan C. Hullsiek

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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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DATE: 23 JUL 2016 ETT: 1011.41 TSOH: 388.20 TACH: 388.20
REG #: N366TF MAKE: Teledyne Continental MODEL: TSIO-550-E (3) S/N: 803138

Drained oil, removed oil filter, cut open and inspected, no defects noted. Installed new oil filter CH48109-1 and safety wired. Serviced with 11 quarts of Aeroshell 15W50 oil. Ran and leak checked engine, no abnormalities noted. Inspected and reinstalled air filter.

Jonathan C. Hullsiek

DATE: 20 AUG 2016 ETT: 1036.31 TSOH: 408.41 TACH: 408.41
REG #: N366TF MAKE: Teledyne Continental MODEL: TSIO-550-E (3) S/N: 803138

Drained oil, removed oil filter, cut open and inspected, no defects noted. Installed new oil filter CH48109-1 and safety wired. Serviced with 11 quarts of Aeroshell 15W50 oil. Ran and leak checked engine, no abnormalities noted. Inspected and replaced air filter with NAPA Gold 2063.

Jonathan C. Hullsiek

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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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.)



Date: November 16, 2016

Make: TCM
Model: TSIO-550-E
Serial Number: 803138

ETT: 1086.4
ETSO: 481.4

Drained oil. Removed oil filter, cut open and inspected, checked good. Installed new AA48109 oil filter. Filled engine with 11 quarts Aeroshell 15W50 oil, leak checked good. Cylinder compression checks are as follows: #1 - 67, #2 - 60, #3 - 76, #4 - 54, #5 - 61, #6 - 65, all over 80 psi. Serviced spark plugs. Replaced three with part number RHB32E. Performed SID97 engine setup. Removed and replaced air conditioning sheave driver with part number 649342 and seal part number 653171. Removed prop governor and sent for overhaul. Prop governor overhauled by Ameritech Industries on WO 21070-10-2016. Installed prop governor and set low pitch stop. Removed magneto PN 6320, serial number 12080103 and 12061290. Removed magneto harnesses. Installed overhauled Bendix magneto 10-500556-101, serial number D11FA072 in right position. Magneto overhauled by Quality Aircraft Accessories Inc. on WO 020354. Installed overhauled Bendix magneto 10-500556-101, serial number D09DA109R in left position. Magneto overhauled by Quality Aircraft Accessories Inc. on WO 020355. Installed new magneto harnesses on both sides. Magnetos timed to engine. Installed missing rocker cover screw on #6 cylinder. Aircraft ops and leak checked with no defects found.

James H Stewart III

YEAR 20	RECORDING TACH	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of
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Date: November 16, 2016

Make: TCM
Model: TSIO-550-E
Serial Number: 803138

ETT: 1086.4
ETSO: 481.4

I certify this engine has been inspected in accordance with a condition inspection and determined in a condition for safe operation this date.

James H Stewart III



Date: November 17, 2016

Make: TCM
Model: TSIO-550-E
Serial Number: 803138

ETT: 1087.9

Removed waste gate and replaced with part number 636168-17, serial number IL000065. All ops and leak checks performed with no defects noted.

Nate Williamsor

Operations
Number of
(entries.)

YEAR
20
DATE



CHAUTAUQUA AIRCRAFT SALES, INC.



Operations
Number of
(entries.)

Work Order# 9259
Engine Serial#:

Date: 12-07-2016
Engine total Time: 1113.21

Aircraft: N366TF
Tach : 472.55

Removed and installed turbo slope controller part # 481058-9004 serial # LDN00090 following overhaul by Main Turbo Systems work order # 52214 , adjusted manifold pressure =38.5 [MAP], in accordance with TCM Maintenance / Operation Manual . Performed engine ground run-no leaks noted-engine parameters normal. I certify that this engine is approved for return to service for the work stated herein.

Kerby McCall

W.O.# 9259

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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2-1-2017 Tach: 482.53 N366TF Lancair IV-P s/n LIV-388
TSIO-550-E s/n 803138

Owner reported that engine began running rough and #3 EGT started rising in flight. Conducted visual inspection of engine. Took compressions and boroscoped cylinders. Removed spark plugs, cleaned and tested, found OK. Checked both mags timing, found that both were retarded. Removed both mags p/n 10-500556-101 and sent to QAA, CRS # 9QFR310C, where they were repaired under W.O. # 022425 and 022426. Reinstalled s/n D11FA072 in the right position and s/n D09DA109R in the left position. Set timing to engine at 24 degrees BTC. Reinstalled intake runners for #3 and #4 cylinders with new 649950 gaskets. Reinstalled spark plugs with new M674 gaskets. Reinstalled pressure relief valve p/n 470944-9026 s/n DIN10441 after overhaul by Main Turbo, CRS # MAMR190K, under W.O. # 52366. Installed cowling. Run-up and leak check was good.

AtP

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.)
4-7-2017	Tach: 483.03	N366TF	TSIO-550-E	s/n 803138
Removed #3 cylinder. Installed new cylinder assembly, p/n 658603A4 s/n BPE-12080. This cylinder was Nikarama plated by Aircraft Cylinders of America, CRS# HT2R884K, under invoice # F1851. Old piston and wrist pin were inspected and returned to service by Barrett. Cylinder was then disassembled, inspected, seats cut, painted, assembled, leak checked and had piston and rings fit by Barrett Precision Engines, CRS # Q8RR231Y, under W.O. 12080. Installed new rocker arm shafts p/n 656642 with new p/n 537750 bolts and new p/n 501868 lock tabs Dry tappet clearance was checked and found within limits. Removed all other cylinders' rocker shaft bolts and replaced with new p/n 537750 bolts and new p/n 501868 lock tabs. Side clearances for all rocker shafts were found within limits. Reinstalled all rocker covers. Replaced all induction tube gaskets, p/n 649950. Replaced all seals for fuel injector reference air shrouds, p/n 630979-9 and 640612. Replaced all reference air tube collar seals p/n 633958-3 and 633958-5. Reinstalled right side exhaust with new p/n 652458 gaskets and new turbo gasket, p/n 636465. Installed CH48109-1 oil filter and serviced with Aeroshell 100 mineral oil. Pre-lubed engine. Run-ups and leak checks were good. All work accomplished IAW M-18 maintenance and overhaul manual and standard practices.				
				

