

**TRIAD**  
**AVIATION**

**Triad Aviation, Inc.**

3439 South Aviation Drive  
Burlington, NC 27215  
336/227-1467

No. 3

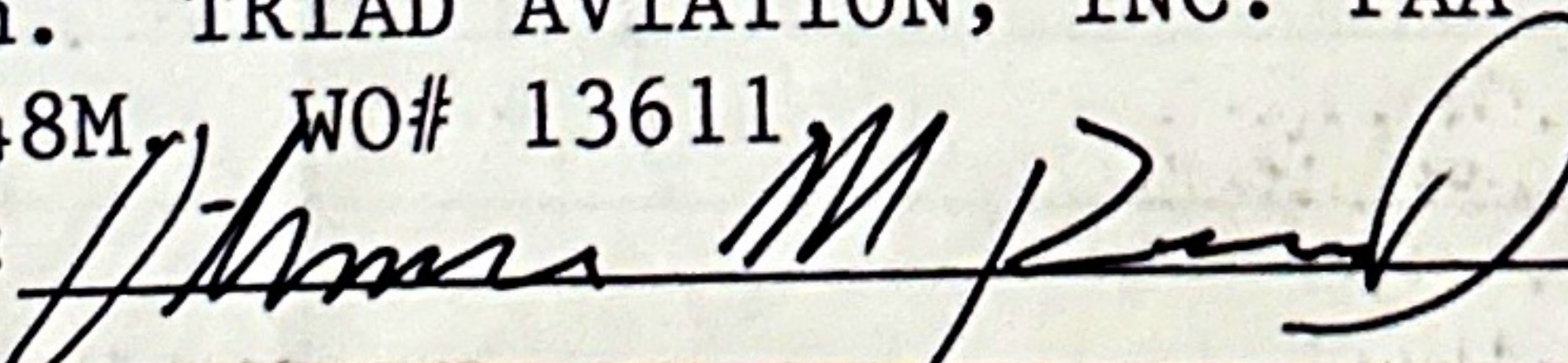
~~N52668~~  
N177WF

FAA-PP4R448M

**Log Book**



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

Test ran (1) Lycoming IO-360-A1B6D S/N L-17339-51A engine  
 2 hours 15 minutes, RPM 2700, oil pressure 76 lbs, oil  
 temperature 198 degrees, CHT 376 degrees, mag check at  
 2100 RPM, L 50 RPM, R 50 RPM. Compression test cylinder  
 #1 78/80 #2 76/80 #3 76/80 #4 76/80.  
 This engine and/or component is approved for return to  
 service. All pertinent details on file this repair  
 station. TRIAD AVIATION, INC. FAA REPAIR STATION  
 #PP4R448M, WO# 13611  
 Signed:  Date: 8/13/03



TRIAD AVIATION, Inc. certifies that this engine has been disassembled, inspected, and overhauled to manufacturer's overhaul manual new limits. Engine tested in accordance with recommended procedures and is approved for return to service. All applicable A.D. Notes and Service Bulletins are complied with at the time of overhaul. Pertinent details of this work are on file at this repair station under work order # 13611.

MAKE Lycoming

MODEL I0-360-A1B6D

S/N L-17339-51A

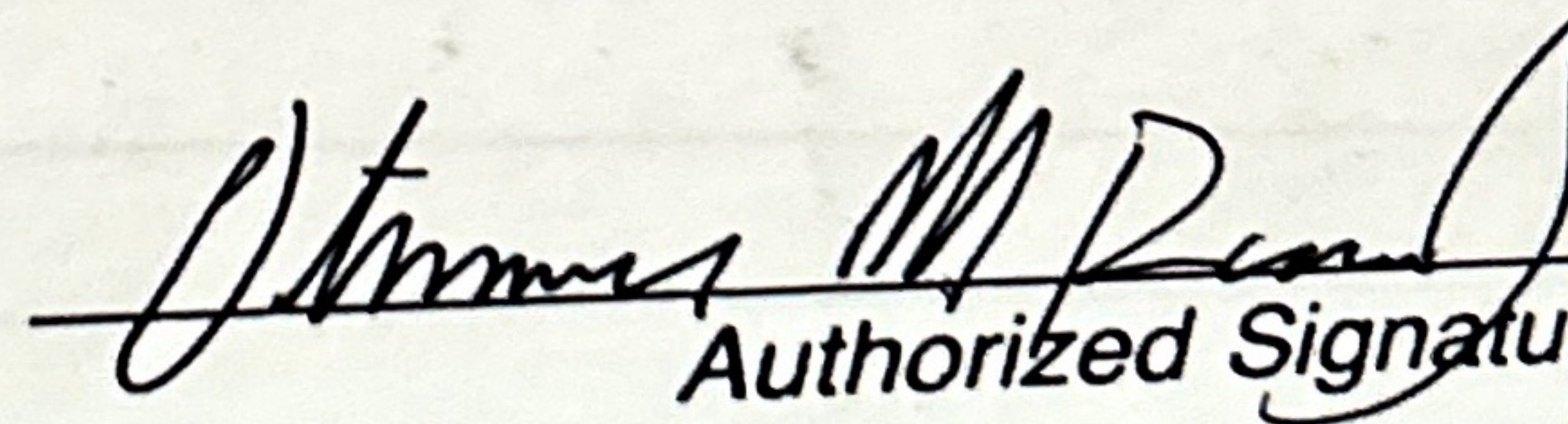
DATE 8/13/03

TSMOH 000.00

TOTAL TIME 4506.7



**Triad Aviation, Inc.**  
FAA Repair Station #PP4R448M  
Burlington Municipal Airport  
3439 South Aviation Drive  
Burlington, NC 27215  
336/227-1467

  
Authorized Signature



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ENG SMOH = "0.0"

**N52668      Tach = 1570.00      ENG TIS / ACTT = 4357.16      10/9/2003**

Discrepancy	Corrective Action
Annual inspection	Accomplished Annual Inspection

**N52668      Tach = 1572.50      ACTT = 4359.66      SMOH = 2.5      10/24/2003**

Discrepancy	Corrective Action
Change oil and filter per Lycoming SI No. 1427B Engine Break-In Par C 2 after 2 hour Flight Test	Serviced engine with 8 qts. Of AeroShell 100 W Mineral oil. Changed filter. No particles found. Run and leak check ok

*Thomas P. Malechuk*  
 Thomas P. Malechuk AP375605708  
 Guardian Aviation Services, LLC







DATE 20__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> 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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**N52668 Tach = 1684.36      ACTT = 4471.52      ENG TIS = 4471.52      12/6/2004**

Discrepancy	Corrective Action
Annual inspection	Accomplished Annual Inspection
CW AD2002-26-1 Prevent failure of the fuel injector fuel lines	CW - per par (c) by inspection - Inspected fuel injector lines and clamps in accordance with Lycoming MSB No. 342D. No defects noted.
Oil and filter are due change	Changed oil and replaced filter (CH48103-1). No particles found. Serviced with 8 qts. AeroShell 15W-50. Leak check ok.
Service spark plugs	Cleaned, gapped and tested spark plugs. Ok for service.
Service injector screen	Cleaned screen. Leak check ok.

I certify that this engine has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition.

*Thomas P. Malechuk*  
 Thomas P. Malechuk IA375605708  
 Guardian Aviation Services, LLC

3/2/07	TACH = 1718.91 ENG TIS = 4506.07 ENG SMOH = 148.91	Removed this engine from N52668 due to prop strike.
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*Thomas P. Malechuk* ADP 375605708



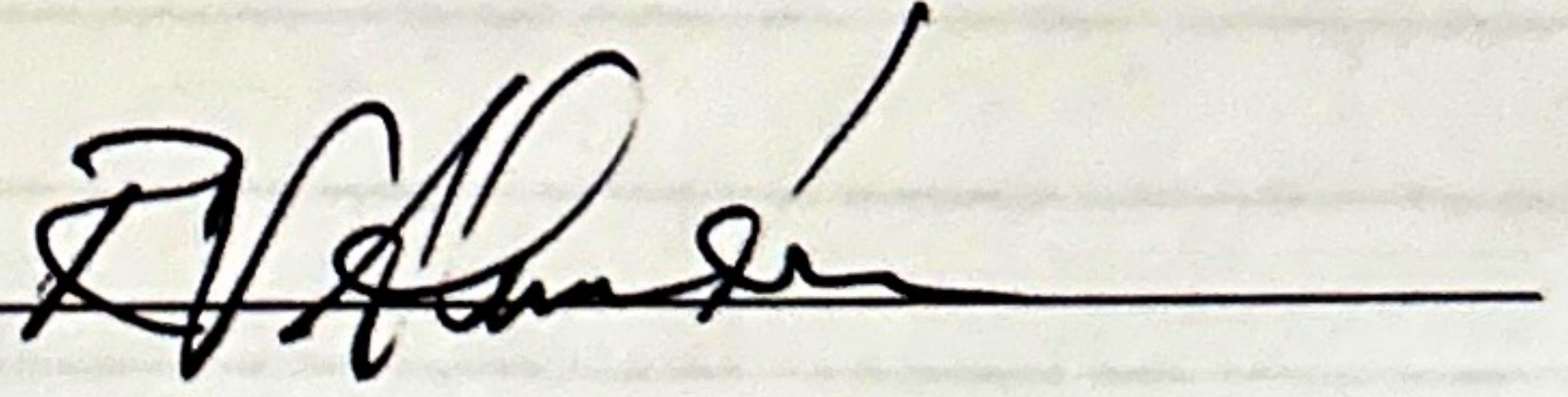
Date 6-4-07 Tach. Time: 1718.91 Eng TIS 4506.07 Smolt 148.91

Disassembled Lycoming IO-360-A1B6D engine S/N L-17339-51A for prop strike inspection. Cleaned and inspected all parts. All steel parts magnafluxed. Engine reassembled in accordance with Lycoming Direct Drive Overhaul Manual with the following new parts installed : new gasket set, nose seal, new main and rod bearings, rod bolts and nuts, crankshaft bolts, lock tabs, intake hoses ,oil filter. Crankshaft repaired and reground MO3 by Rick Romans. Oil sump repaired by Drake Air. Camshaft and tappets reground by D&S Cam. Replaced ring gear. Magneto s/n G031A015R overhauled by Executive Accessories Inc. C/W AD 02-26-01 fuel injection lines by inspection, C/W AD 04-10-14C1 by replacement of crankshaft gear retaining bolt and lock tab. Details of this repair are on file at this agency under W.O.27062. Continuing time on this engine. End.

Zephyr Aircraft Engines Inc.  
39320 B Ave. Zephyrhills FL. 33542  
(813) 788-3305 FAX (813) 788-4412

F.A.A. APPROVED REPAIR STATION # V14R397M

W.O. No. 27062

Authorized Signature 

Repair

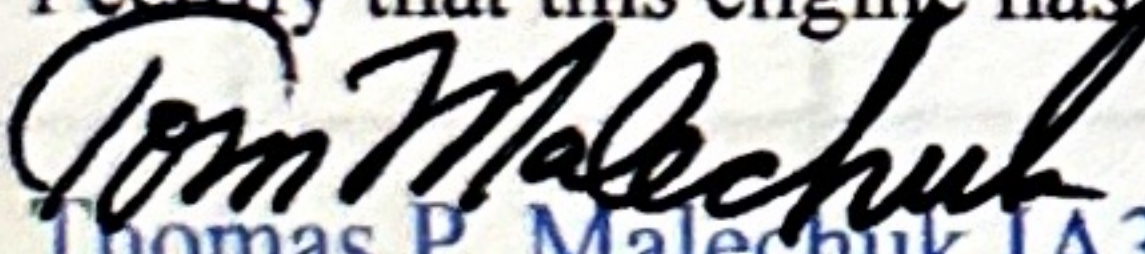


N52668 AFTT = 4506.07 Tach = 1718.91 Eng TIS = 4506.07 Eng SMOH = 148.91

9/12/2007

Discrepancy	Corrective Action
Annual inspection	Accomplished Annual Inspection
Magneto is due overhaul	Installed Magneto P/N BL-682555-11, S/N G031A015R overhauled by Executive Accessories Inc. CRS #RL4R496M under WO #31905 dated 4/10//2007. Installation in reference to Lycoming SI No. 1438A
Engine installation	Installed engine in reference to AMM. Serviced with 8 qts. AeroShell Mineral Oil. Performed Ground Test per par B in reference to Lycoming SI No. 1427B. Engine is approved for first flight and break in operation per Zephyr's instructions and Lycoming SI No. 1427B par C "Flight Test".
Engine oil	Serviced engine with 8 qts. Of AeroShell 100 W Mineral oil
Compression check	#1 75/80, #2 74/80, #3 76/80, #4 78/80
Engine induction air filter is due replacement	Installed new filter BA-5705

I certify that this engine has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition.

  
Thomas P. Malechuk IA375605708  
Guardian Aviation Services, LLC



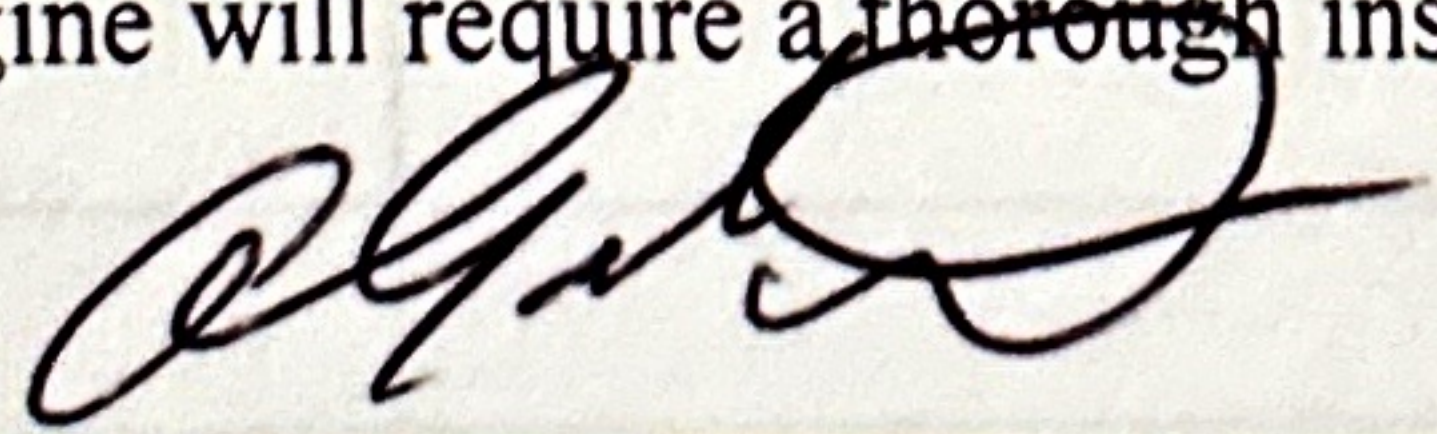

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4/10/10

N52668

TACH 1750.3

For work performed 10/08-6/09. Routine 100hr inspection performed I.A.W. Cessna 177 service manual checklist. Compression check as follows cyl's 1) 80/80 2)80/80 3)78/80 4)80/80. Replaced oil filter CH48110 oil filter. Drained oil and serviced sump with Phillips 20/50. Removed cleaned and re-installed oil suction screen with new gasket AN900-16. Serviced and rotated spark plugs. Tightened all air induction clamps. Cleaned and lubed starter. Checked timing. Removed propeller due to alternator belt change. Engine run-up satisfactory, No leaks at this time. I certify that this engine has been inspected I.A.W. a100hr inspection and was determined to be in an airworthy condition. This aircraft has been stored outside for the last 10 months and this engine will require a thorough inspection before aircraft can be ferried.



Alexander Duran A&P 2677910




DATE

N52668

20

4/24/2014

TACH 1751.4

Due to the aircrafts inactivity FAR Part 43 Appendix D checklist was followed. Compression check as follows cyl's 1) 76/80 2)72/80 3)76/80 4)78/80. Replaced oil filter CH48103 oil filter. Drained oil and serviced sump with Phillips 20/50. Removed cleaned and re-installed oil suction screen with new gasket AN900-16. Serviced and rotated spark plugs. Tightened all air induction clamps. Cleaned and lubed starter, Checked timing.

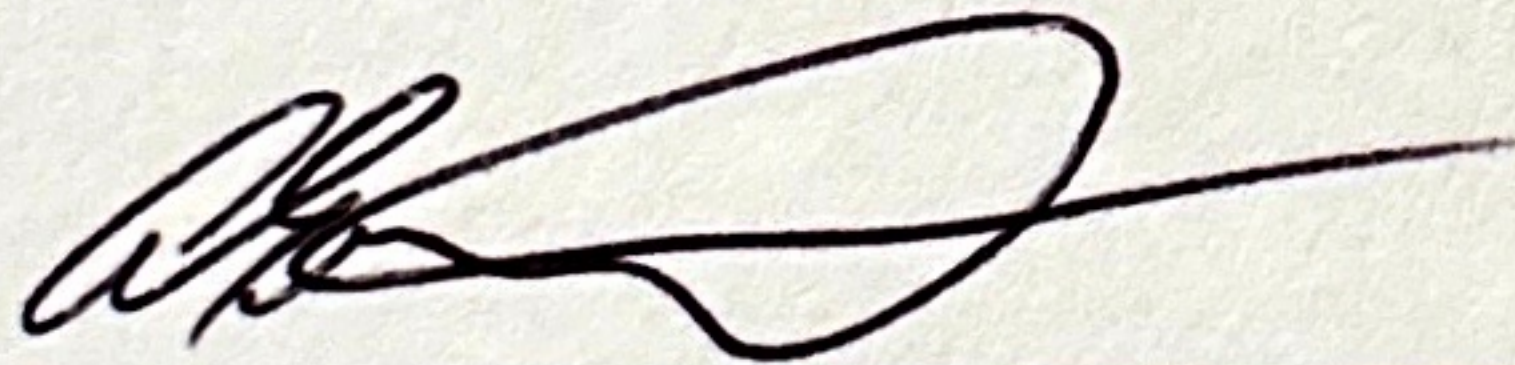
AD 2009-02-03 P/C/W by gasket replacement and new torque setting.

AD 2011-26-04 C/W by visual inspection next due 1851.4.

AD 2012 -03-06C NA by date of overhaul.

AD 2012-19-01 NA by SN.

No further action required Cleaned engine and performed extensive ground run-ups, No defects or leaks found.



Alexander Duran A&P 2677910




Sparkchasers Aircraft Services, Inc.

3223C Swift Creek Rd.

Smithfield, NC 27577

(919) 934-1654

January 21, 2015

N52668

Tach: 1757.12

ACTT: 4544.28

Cessna 177RG

Eng Model: Lycoming IO-360-A1B6D

Eng S/N: L-17339-51A

EngTT: 4544.28

Eng SMOH: 187.11

W.O. No. 50249

Engine Log Entry

Annual inspection:

- Drained oil and removed oil filter. Inspected filter and oil sump screen, no metal contaminants found. Installed oil sump screen using new gasket. Installed new Tempest AA48103-2 oil filter and serviced engine with 8 Qts Phillips XC 20W50 oil.
- Performed compression check #1-74, #2-76, #3-76, #4-76 over 80 psi.
- Cleaned, inspected, gapped, tested and rotated spark plugs.
- Performed mag timing check, both mags were timed at 25 degrees BTDC, no adjustment required.
- Serviced fuel injection nozzles.
- Installed new intake tube gasket on #3 cylinder.
- **CW AD 2011-26-14** to prevent failure of the fuel injector lines, inspected injector lines and clamps in accordance with AD & Lycoming MSB 342F instructions, no defects noted, all clamps in place at this time. Recurring action due every 100 hrs, annual, eng O/H and any maintenance involving lines.
- Washed engine and lubed controls.
- Performed ground run operational checks, operations checked satisfactory. No leaks noted at this time.
- Performed work in accordance with Lycoming and Cessna 177RG maintenance manuals.

January 21, 2015

Tach: 1757.12

I certify this engine has been inspected in accordance with an annual/100hr

inspection and is approved for return to service.

*Jeffrey A. Kears*

AP 2730963 IA



DATE

20

Sparkchasers Aircraft Services, Inc.

3223C Swift Creek Rd.

Smithfield, NC 27577

(919) 934-1654

July 8, 2016

N52668

Tach: 1767.40

Cessna 177RG

Eng Model: Lycoming IO-360-A1B6D

## Engine Log Entry

CW AD 2015-19-07 to prevent failure of the fuel injector lines, inspected injector lines and clamps in accordance with AD & Lycoming MSB 342F instructions, no defects noted, all clamps in place at this time. Recurring action due every 100 hrs, annual, eng O/H and any maintenance involving lines. Jeffrey S. Kams AP 2730963

N52668

AFTT = 4555.48

Tach = 1768.32

Eng TIS = 4555.48

Eng SMOH = 198.32

8/16/2016

Discrepancy	Corrective Action
Annual inspection	Accomplished Annual Inspection
CW AD2015-19-07 To prevent failure of the fuel injector lines	CW - per par (e.i) by initial inspection under AD 2011-26-04. Per par (e.ii) by inspection IAW Lycoming SB No. 342E. No defects noted. Re-inspection due per par (ii) after any maintenance is done on the engine where any clamp on a fuel injector fuel line was disconnected, moved, or loosened, and within every 110 hours TIS (4616.07) and after each engine overhaul.
Oil and filter are due change	Changed oil and filter (CH48103-1). Cleaned sump screen. Serviced with 7 Qts. Phillips 20W50 oil. Leak check OK.
Compression check	#1 74/80, #2 74/80, #3 74/80, #4 74/80
Boroscope cylinders	Boroscoped. No defects noted.
Engine induction air filter is due replacement	Installed new filter BA-5705

I certify that this engine has been inspected in accordance with an annual inspection and has been found to be in an airworthy condition.

*Thomas P. Malechuk*  
 Thomas P. Malechuk IA375605708  
 Guardian Aviation Services, LLC







DATE  
20



UNITED FLIGHT SERVICES  
120 Aviation Way. Watsonville, CA 95076

Repair

N52668

August 15, 2018

Tach Time: 1904.38

TSMOH: 334.38

Total Time: 4691.54

I certify that this engine has been inspected in accordance with an Annual Inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 78/80 #2 78/80 #3 79/80 #4 78/80. Changed oil and serviced engine with 8 quarts Aeroshell 100W Plus. Changed oil filter and checked old filter and sump screen for contamination. None found. Replaced 1 each spark plug and cleaned, gapped and rotated all spark plugs. Checked magneto timing. Replaced air filter element. Pressure tested and inspected exhaust system. Ultrasonically cleaned fuel injector nozzles. Checked and cleaned fuel injector servo inlet strainer screen. Cleaned gascolator screen. Retorqued and safetied oil level gauge. Run up, leak check and ops checked good. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times

Terence M. McKenna

A handwritten signature in black ink, appearing to read 'Terence M. McKenna', written over a horizontal line.

A&P 569948254 IA







DATE 20__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> 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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ENGINE MODEL:  
ENGINE S/N:  
REG. NO: 52668  
WORK ORDER:  
1644-02-2019



**Scanlon Aviation**

451 Airport Road  
Novato, CA 94945  
Phone: 415-897-9787

DATE: 06 February, 2019  
A/C TSN:  
ENG TT:  
TSMOH:  
TACH: 1996.39

**Engine Entries**

(1) Changed oil and filter. Filter opened and inspected for metal, none noted. Filled engine with 7 qts Aeroshell 15W-50, engine run and checked for leaks, none noted.

DATE: 06 February, 2019

SIGNED: *Devon Mowat*  
Devon Mowat, A&P. 4067383

Work Order: 1644-02-2019

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9519 Airport Drive, Hanger 19  
Visalia, CA 93277

**Engine**

**DATE: 5/15/19      MODEL: IO-360-A1B6D      SMOH: 481.76      HOBBS: 145.8**  
**REG: N52668      S/N: L-17339-51A      TACH: 2051.76**

- 1 SERVICE ENGINE WITH 8 QUARTS OF AEROSHELL 15W50 OIL.
- 2 INSTALL NEW ENGINE OIL FILTER ELEMENT P/N: CH48103-1.
- 3 ENGINE OIL SAMPLE TAKEN.

  
**RALPHAEL LOPEZ - A&P 2709706**

**PERTINENT DETAILS ON FILE: W.O. 526051519**




Date 10-25-2018

NO 1078

IN Number 100000

drained engine oil removed and inspected oil  
 filter checked good installed new oil filter PIN  
 OH4B103-1. Service engine with Full AeroShell  
 15W-50 Ran engine leak check satisfactory

*WFL*

WFL APPROVED AND SIGNED



DATE 20__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> 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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9519 Airport Drive, Hanger 19  
 Visalia, CA 93277

**Engine**

**DATE: 5/15/19      MODEL: IO-360-A1B6D      SMOH: 481.76      HOBBS: 145.8**  
**REG: N52668      S/N: L-17339-51A      TACH: 2051.76**

- 1 SERVICE ENGINE WITH 8 QUARTS OF AEROSHELL 15W50 OIL.
- 2 INSTALL NEW ENGINE OIL FILTER ELEMENT P/N: CH48103-1.
- 3 ENGINE OIL SAMPLE TAKEN.

**RALPHAEL LOPEZ - A&P 2709706**

**PERTINENT DETAILS ON FILE: W.O. 526051519**



DATE

20

RECORDING  
TACH

TODAY'S  
FLIGHT

TOTAL  
TIME IN

# Description of Inspections, Tests, Repairs and Alterations

repair



9519 Airport Drive, Hanger 19  
Visalia, CA 93277

## Engine

DATE: 9/11/19

MODEL: IO-360-A1B6D

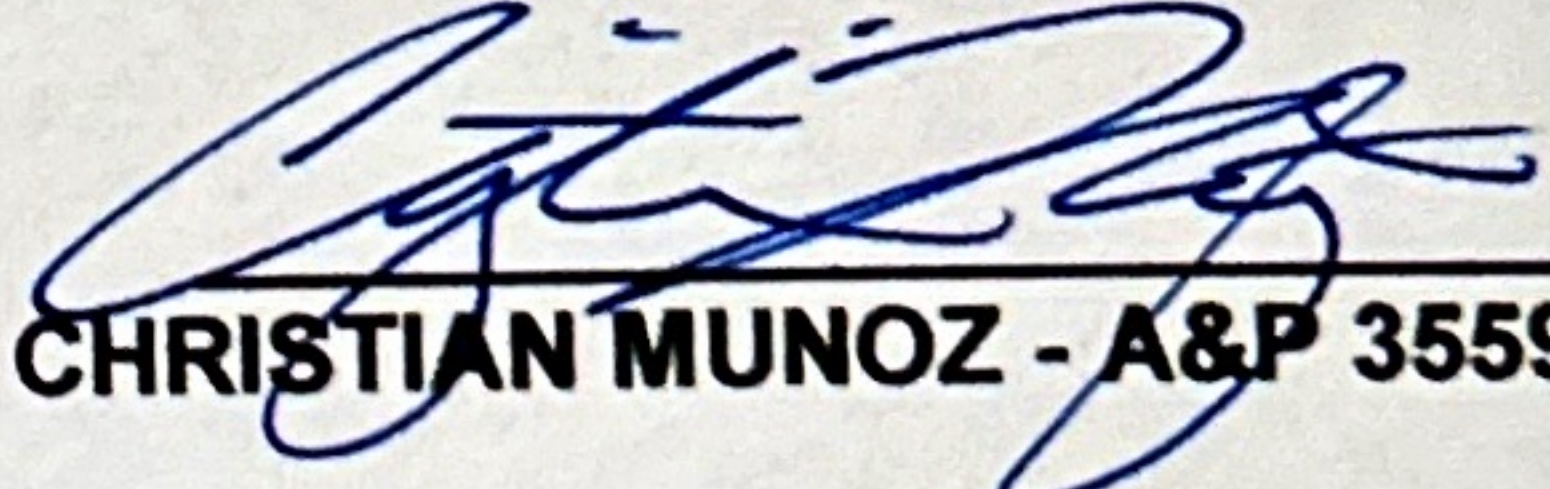
SMOH: 498.0

TACH: 2068.0

REG: N177WF

S/N: L-17339-51A

- 1 COMPRESSION TEST: 1/78, 2/77, 3/78, 4/77.
- 2 INSTALL 8 NEW SPARK PLUGS P/N: RHM-38E.
- 3 INSTALL NEW ENGINE AIR FILTER ELEMENT P/N: BA5705.
- 4 INSTALL NEW ALTERNATOR P/N: 10-1050A, S/N: H-T042107.
- 5 INSTALL NEW VOLTAGE REGULATOR P/N: R1224, S/N: H-T061296.

  
CHRISTIAN MUNOZ - A&P 3559458

  
RAPHAEL LOPEZ - A&P 2709706

PERTINENT DETAILS ON FILE: W.O. 117091119



DATE 20__	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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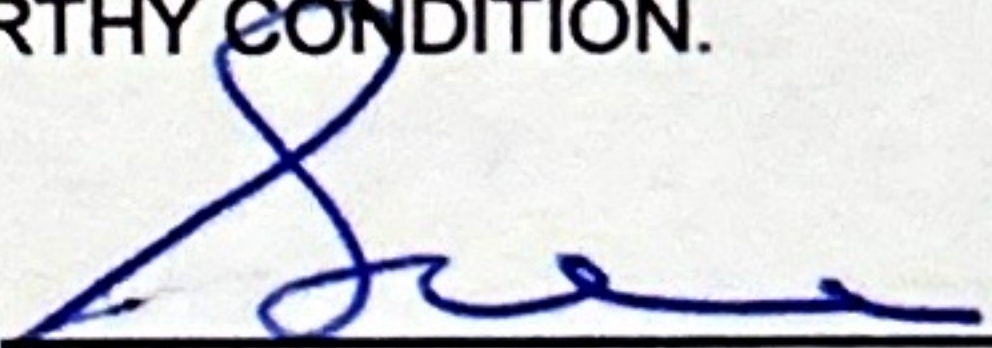


9519 Airport Drive, Hanger 19  
Visalia, CA 93277

**Engine**

DATE: 9/11/19      MODEL: IO-360-A1B6D      SMOH: 498.0      TACH: 2068.0  
 REG: N177WF      S/N: L-17339-51A

ANNUAL INSPECTION COMPLETED THIS DATE. ALL APPLICABLE AD'S CHECKED AND CW OR N/A AS LISTED IN AD LOG. I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH **ANNUAL** INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. APPROVED FOR RETURN TO SERVICE.

  
**STEPHEN STEWART - IA 2129169**

**PERTINENT DETAILS ON FILE: W.O. 117091119**




DATE

20\_\_

RECORDING  
TACH

TODAY'S  
FLIGHT

TOTAL  
TIME IN

Description of Inspections, Tests, Repairs and Alterations



9519 Airport Drive, Hanger 19  
Visalia, CA 93277

Engine

DATE: 11/14/19

MODEL: IO-360-A1B6D

SMOH: 537.52

TACH: 2107.52

REG: N177WF

S/N: L-17339-51A

- 1 SERVICE ENGINE WITH 8 QUARTS OF AEROSHELL 15W50 OIL.
- 2 INSTALL NEW ENGINE OIL FILTER ELEMENT P/N: CH48103-1.
- 3 ENGINE OIL SAMPLE TAKEN.

  
 RAPHAEL LOPEZ - A&P 2709706

- 4 INSTALL NEW STARTER P/N: 149NL, S/N: H-T090018.
- 5 REMOVE AND REINSTALL EXHAUST AFTER REPAIRS BY POWER FLOW SYSTEMS UNDER WORK ORDER NUMBER 215057, DATED 12/5/19.

  
 CHRISTIAN MUNOZ - A&P 3559458

PERTINENT DETAILS ON FILE: W.O. 117111419



Description of Inspections, Tests, Repairs and Alterations



9519 Airport Drive, Hanger 19  
Visalia, CA 93277

Engine

DATE: 07/27/20

MODEL: IO-360-A1B6D

SMOH: 616.91

TACH: 2186.91

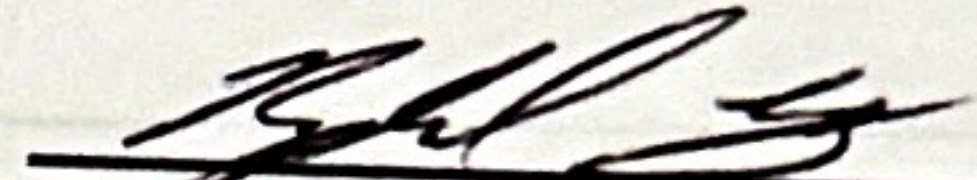
REG: N177WF

S/N: L-17339-51A

HOBBS: 278.7

- 1 ENGINE OIL SAMPLE TAKEN.
- 2 SERVICE ENGINE WITH 8 QUARTS OF AEROSHELL 15W50 OIL.
- 3 INSTALL NEW ENGINE OIL FILTER ELEMENT P/N: CH48103-1.

PERTINENT DETAILS ON FILE: W.O. 117072720

  
RAPHAEL LOPEZ - A&P 2709706

n or Repair

D.  
20






UNITED FLIGHT SERVICES  
120 Aviation Way. Watsonville, CA 95076

N177WF

October 1, 2020

Tach Time: 2203.96 TSMOH: 633.96

Total Time: 4991.12

I certify that this engine has been inspected in accordance with an Annual Inspection consistent with the scope and detail of CFR 14 Part 43 Appendix D and has been determined to be in airworthy condition. Compression: #1 77/80 #2 78/80 #3 76/80 #4 78/80. Changed oil and serviced engine with 8 quarts Aeroshell 100W Plus. Changed oil filter and checked old filter and sump screen for contamination. None found. Cleaned, gapped and rotated all spark plugs. Checked magneto timing. Replaced air filter element. Pressure tested and inspected exhaust system. Disassembled Power Flow exhaust system to lube all slip joints with HiTemp anti-seize. Weld repaired hole in #4 cylinder stack. Ultrasonically cleaned fuel injector nozzles. Checked and cleaned fuel injector servo inlet strainer screen. Cleaned gascolator screen. Replaced heater shroud inlet and outlet ducts. Run up, leak check and ops checked good. See Airworthiness Directive Compliance Checklist for compliance & next due dates and times.

Terence M. McKenna

A&P 569948254 IA













UNITED FLIGHT SERVICES  
120 Aviation Way. Watsonville, CA 95076

N177WF

November 5, 2021

Tach Time: 2347.09

TSMOH: 777.09

Total Time: 5134.25

I certify that this engine has been inspected in accordance with an Annual Inspection consistent with the scope & detail of CFR 14 Part 43 Appendix D & has been determined to be in airworthy condition. Compression: #1 77/80 #2 78/80 #3 79/80 #4 79/80. Changed oil & serviced engine with 7 quarts Aeroshell 100W Plus. Changed oil filter & checked old filter & sump screen for contamination. None found. Cleaned, gapped & rotated all spark plugs. Checked magneto timing. Replaced air filter element. Pressure tested & inspected exhaust system. Disassembled Power Flow exhaust system to lube all slip joints with HiTemp anti-seize. Reinstalled exhaust system with new no-blo exhaust gaskets. Replaced 3 cowling shock mounts, P/N 77444-14. Ultrasonically cleaned fuel injector nozzles. Checked & cleaned fuel injector servo inlet strainer screen. Cleaned gascolator screen. Run up, leak check & ops checked good. See Airworthiness Directive Compliance Checklist for compliance & next due dates & times.

Terence M. McKenna

A&P 569948254 IA





