

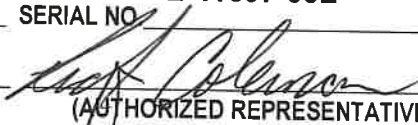
N514C

# ENGINE LOG



## NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL **O-360-A4M** SERIAL NO. **L-41697-36E**  
DATE 6/11/10   
(AUTHORIZED REPRESENTATIVE)

**LYCOMING**  
A Textron Company

**LYCOMING ENGINES**  
652 Oliver Street  
Williamsport, PA 17701 U.S.A.

Form No. 777-B (Rev. 3/03)

## ENGINE DESCRIPTION

Manufacturer: LYCOMING, WILLIAMSPORT, PA Serial No. L-41697-36E

Horsepower: 180

Model: O-360-A4M FAA T. C. No. E286

[illegible]

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

Date: 07/29/10  
Make/Model: Lycoming/O-360-A4M  
Hobbs Time: 2.9  
Complied with Lycoming Special Advisory 99-7101-1. Fuel Inlet fitting Inspection.  
Inspected carburetor per instructions, no discrepancies noted. Leak check acceptable

name  
Damian Galbraith  
AP 269679IA

ns noted. Leak check acceptable

Total To  
Carry Forward

Certificate No.



Cutter Aviation Dallas, Inc.  
1500 East Industrial Boulevard Suite 100  
McKinney, Texas 75069



Registration:	N514C
Model No.	PA28-181
Serial No.	2843684

## Engine Log Entry

Tach	25.0
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Changed oil and filter, serviced using Aeroshell 100 oil. Ground ran and checked for leaks.

The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order#: 06M-2440

Date: September 17, 2010 CRS# UXCR663X

Christopher Gradisar



2802 Old Tower Road  
Phoenix Arizona 85034  
FAA Repair Station No, EKGR571D

602-267-4070 Phone  
602-267-4030 FAX

Model	PA-28-181	<b>Engine Log</b>	Work Order No.	5987
Serial No.	2843684		Hour Meter	46.1
Registration	N514C		Aircraft Total Time	43.9 Tachometer
Engine Model	O-360-A4M		Engine TSN	43.9 Tachometer
Engine Serial	L-41697-36E		Engine CSN	NA

Ran engine, Drained oil, Removed, cut and inspected oil filter. No defects noted. Installed new oil filter P/N CH48110-1. Serviced with 8 Qts. Aeroshell 15W50 oil.  
Ran engine, no leaks noted.

The aircraft and /or component identified above was repaired and inspected in accordance with current federal aviation regulations and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station.

Signed:

Date:

11-23-10

ENGINE MODEL:  
O-360-A4M  
ENGINE S/N: L-41697-36E  
REG. NO: N514C  
WORK ORDER: 25646



**American Aircraft Maintenance, Inc.**

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 9/1/2011  
A/C TSN: 73  
ENG TT: 73  
TACH: 73

#### Engine Entries

Complied with an Annual/100 HR inspection as per Manufacturer's Service and/or Maintenance Manual. Changed oil and filter, serviced with AS15W50 oil. Filter opened and inspected, no contamination found. Leak check satisfactory. All Airworthiness Directives are in compliance at this time through bi-weekly issue 2011-17. Compressions #1 78/80, #2 79/80, #3 78/80, #4 78/80.... Engine oil sample taken for analysis.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR, IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE.

Total T

Carry I DATE: 9/1/2011

SIGNED:

Work Order: 25646

Richard Sanchez  
Certified Repair Station No. Z5SR421Y

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ENGINE MODEL:  
O-360-A4M  
ENGINE S/N: L-41697-36E  
REG. NO: N514C  
WORK ORDER: 26202



**American Aircraft Maintenance, Inc.**

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 10/19/2012  
A/C TSN: 123.9  
ENG TT: 123.9  
TACH: 123.9

#### Engine Entries

Complied with an Annual/100 HR inspection as per Manufacturer's Service and/or Maintenance Manual. Changed oil and filter, serviced with AS15W50 oil. Filter opened and inspected, no contamination found. Leak check satisfactory. All Airworthiness Directives are in compliance at this time through bi-weekly issue 2012-20. Compressions #1 76/80, #2 78/80, #3 78/80, #4 78/80.... Oil sample taken and sent for analysis.... Adjusted magneto timing to 25 degrees per engine plate. Operational and leak check good.... AD2012-03-07, carburetor inspection not applicable by model.... AD2012-19-01 is not applicable by model of engine.... Found oil leak was coming from right magneto and rocker cover gaskets. Re-torque right magneto to 120 in/lbs and rocker cover screws to 55 in/lbs. Run up and leak checked and found no leaks at this time.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR, IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE.

DATE: 10/19/2012

SIGNED:

Work Order: 26202

Richard Sanchez  
Certified Repair Station No. Z5SR421Y

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
O-360-A4M  
ENGINE S/N: L-41697-36E  
REG. NO: N514C  
WORK ORDER: 26684



**American Aircraft Maintenance, Inc.**

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 11/1/2013  
A/C TSN: 168.6  
ENG TT: 168.6  
TACH: 168.6

#### Engine Entries

Complied with an Annual/100 HR inspection as per Manufacturer's Service and/or Maintenance Manual. Changed oil and filter, serviced with AS15W50 oil. Filter opened and inspected, no contamination found. Leak check satisfactory. All Airworthiness Directives are in compliance at this time through bi-weekly issue 2013-21. Compressions #1 78/80, #2 79/80, #3 78/80, #4 78/80.... Oil sample taken and sent for analysis.... Tightened and safety wire oil dipstick tube. Leak check good.... Replaced all valve cover gaskets and torque to 55 in/lbs. Leak check good.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR, IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE.

DATE: 11/1/2013

SIGNED:

Work Order: 26684

Richard Sanchez  
Certified Repair Station No. Z5SR421Y

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
O-360-A4M  
ENGINE S/N: L-41697-36E  
REG. NO: N514C  
WORK ORDER: 27290



American Aircraft Maintenance, Inc.

Repair Station No. Z5SR421Y  
19711-B Campus Drive  
Santa Ana, CA 92707  
Phone: (949) 852-8420

DATE: 3/6/2015  
A/C TSN: 220.7  
ENG TT: 220.7  
TACH: 220.7

### Engine Entries

Complied with an Annual/100 HR inspection in accordance with FAR Part 43, Appendix D, using Piper Aircraft, Inc. Inspection Report p/n 767-008 as a guide. Changed oil and filter, serviced with Aeroshell 15W50 oil. Filter opened and inspected, no contamination found. Leak check satisfactory. All Airworthiness Directives are in compliance at this time through bi-weekly issue 2015-04. Compressions #1 78/80, #2 76/80, #3 78/80, #4 76/80. Oil sample taken and sent for analysis. Re-torqued all rocker cover screws to 50 in. lbs. Leak check good.

THIS AIRCRAFT OR COMPONENT HAS BEEN REPAIRED AND/OR INSPECTED AS OUTLINED ABOVE IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF 14 CFR, IT IS FOUND AIRWORTHY AND IS APPROVED RETURN TO SERVICE.

DATE: 3/6/2015

SIGNED:

Work Order: 27290

Richard Sanchez  
Certified Repair Station No. Z5SR421Y

Printed by EBis 3 (datcomedia.com)

N514C

Aug 21, 2015

Tach 243.4

Oil and filter change completed, re-serviced with 8 Qts Aeroshell 100W oil.

Compression checked. 1)79 2)78 3)794)79/80 PSI.

Ground run operational and leak checked good

*Patrick Williams*

Patrick Williams 3034829IA

**ORION**  
AVIATION  
Maintenance

Total To  
Carry Forward

and Remarks

Signature

Certificate No.

Gann Aviation, Inc.

Engine Logbook Entry

Date: 04-13-16 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 281.2 Hobbs: 323.6 TT: 281.2

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and

Piper Inspection checklist. Compression check: #1.77/80. #2.76/80, #3.76/80,

#4.78/80. Changed oil and filter. Inspected oil filter per Champion Service

Manual AV6-R. Found satisfactory. Serviced with 8 quarts of Aeroshell W100 plus oil and Tempest AA48110-2 filter. Cleaned and inspected induction air filter.

Installed 8 new Champion REM38E spark plugs.

I certify that this engine has been inspected in accordance with an **Annual/100**

**Hr.** inspection and was found to be in an airworthy condition.

Signature: *Richard A. Cason*

Richard A. Cason AP260136515IA\*\*\*\*\*END\*\*\*\*\*



# ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			

Gann Aviation, Inc. Engine Logbook Entry


Date: 06-06-17 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 310.0 Hobbs: 357.3 TT: 310.0

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and Piper Inspection checklist. Compression check: #1.76/80. #2.74/80, #3.76/80, #4.78/80. Changed oil and filter. Inspected oil filter per Champion Service Manual AV6-R. Found satisfactory. Serviced with 8 quarts of Aeroshell W80 plus oil and Tempest AA48110-2 filter. Cleaned and inspected induction air filter. Cleaned, gapped, inspected, and rotated spark plugs with new M674 gaskets.

I certify that this engine has been inspected in accordance with an **Annual/100 Hr. inspection** and was found to be in an airworthy condition.

Signature: 

Richard A. Cason AP260136515IA\*\*\*\*\*END\*\*\*\*\*

Total To Carry Forward



and Remarks

Signature

Certificate No.

Gann Aviation, Inc.

Engine Logbook Entry


Date: 06-09-18 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 347.6 Hobbs: 401.3 TT: 347.6

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and Piper Inspection checklist. Compression check: #1.76/80. #2.75/80, #3.75/80, #4.78/80. Changed oil and filter. Inspected oil filter per Champion Service Manual AV6-R. Found satisfactory. Serviced with 8 quarts of Aeroshell W80 plus oil and Champion CH48110-1 filter plus 4 ozs Cam Guard. Installed a new Donaldson induction air filter. Cleaned, gapped, inspected, and rotated spark plugs with new M674 gaskets.

I certify that this engine has been inspected in accordance with an **Annual/100 Hr. inspection** and was found to be in an airworthy condition.

Signature: 

Richard A. Cason AP260136515IA\*\*\*\*\*END\*\*\*\*\*

## ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			

Gann Aviation, Inc.

## Engine Logbook Entry

Date: 08-01-19 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 381.2 Hobbs: 439.9 TT: 381.2

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and

Piper Inspection checklist. Compression check: #1.76/80, #2.75/80, #3.75/80,


#4.78/80. Changed oil and filter. Inspected oil filter per Champion Service

Manual AV6-R. Found satisfactory. Serviced with 8 quarts of Aeroshell W80 plus

oil and Champion CH48110-1 filter plus 4 ozs Cam Guard. Inspected Donaldson

induction air filter. Cleaned, gapped, inspected, and rotated spark plugs with new

M674 gaskets. Installed 4 new SL75906 rocker box cover gaskets.

I certify that this engine has been inspected in accordance with an **Annual/100****Hr.** inspection and was found to be in an airworthy condition.Signature: 

Richard A. Cason AP260136515IA\*\*\*\*\*END\*\*\*\*\*

Carry Forward



and Remarks

Signature

Certificate No.

**DAVID L THURMAN****ENGINE LOGBOOK ENTRY**

DATE: 02-03-20 N NUMBER: 514C MAKE AND MODEL: PA28-181 ENGINE MAKE: LYCOMING

MODEL: 0-360-A4M S/N: L-41697-36E TACK: 409.4 HOBBS: 474.2 TT: 409.4 SERVICED WITH

8-QUARTS OF AEROSHELL W80 OIL AND CHAMPION CH48110-1 FILTER PLUS 4 OZS CAM

GUARD.

SIGNATURE: 

DAVID L. THURMAN CERT. # 3803322\*\*\*\*\*END\*\*\*\*\*



## ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought			

Gann Aviation, Inc.

## Engine Logbook Entry

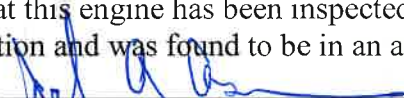
Date: 09-01-20 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 513.9 Hobbs: 588.6 TT: 513.9

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and Piper Inspection checklist. Compression check: #1.77/80. #2.74/80, #3.76/80, #4.78/80. Changed oil and filter. Inspected oil filter per Champion Service Manual AV6-R. Found satisfactory. Serviced with 8 quarts of Aeroshell W80 plus oil and Champion CH48110-1 filter plus 8 ozs Cam Guard. Inspected Donaldson induction air filter. Cleaned, gapped, inspected, and rotated spark plugs with new M674 gaskets.

I certify that this engine has been inspected in accordance with an **Annual/100 Hr. inspection** and was found to be in an airworthy condition.

Signature: 

Richard A. Cason AP260136515IA\*\*\*\*\*END\*\*\*\*\*

Total To Carry Forward			
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and Remarks

Signature

Certificate No.

Gann Aviation, Inc.

## Engine Logbook Entry

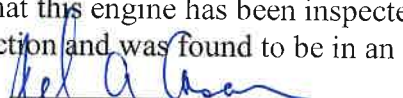
Date: 10-01-21 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 570.3 Hobbs: 654.4 TT: 570.3

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and Piper Inspection checklist. Compression check: #1.78/80. #2.75/80, #3.76/80, #4.76/80. Changed oil and filter. Inspected oil filter per Champion Service Manual AV6-R. Found satisfactory. Serviced with 7 quarts of Aeroshell W80 plus oil and Champion CH48110-1 filter plus 8 ozs Cam Guard. Inspected Donaldson induction air filter. Cleaned, gapped, inspected, and rotated spark plugs with new M674 gaskets.

I certify that this engine has been inspected in accordance with an **Annual/100 Hr. inspection** and was found to be in an airworthy condition.

Signature: 

Richard A. Cason AP260136515IA\*\*\*\*\*END\*\*\*\*\*

## DAVID L THURMAN

### ENGINE LOGBOOK ENTRY

DATE: 04-14-22 N NUMBER: 514C MAKE AND MODEL: PA28-181 ENGINE MAKE: LYCOMING MODEL: O-360-A4M  
S/N: L-41697-36E TACK: 594.2 HOBBS: 681.00 TT: 594.2 SERVICED WITH 8-QUARTS OF AEROSHELL W80 OIL AND  
CHAMPION CH48110-1 FILTER PLUS 4 OZS CAM GUARD.

SIGNATURE: David L. Thompson

DAVID L. THURMAN CERT. # 3803322\*\*\*\*\*END\*\*\*\*\*

Gann Aviation, Inc.

## Engine Logbook Entry

Date: 11-02-22 N Number: 514C Make and Model: PA28-181

Engine Make: Lycoming Model: 0-360-A4M S/N: L-41697-36E

Tach: 643.0 Hobbs: 732.8 TT: 643.0

Completed an annual/100hr. inspection in accordance with CFR part 43, Appendix E and Piper Inspection checklist. Compression check: #1.77/80. #2.78/80, #3.74/80, #4.76/80. Changed oil and filter. Inspected oil filter per Champion Service Manual AV6-R. Found satisfactory. Serviced with 7 quarts of Aeroshell W80 plus oil and Champion CH48110-1 filter plus 8 ozs Cam Guard. Inspected Donaldson induction air filter. Cleaned, gapped, inspected, and rotated spark plugs with new M674 gaskets.

I certify that this engine has been inspected in accordance with an **Annual/100 Hr.** inspection and was found to be in an airworthy condition.

Signature: 

Richard A. Cason AP2601365151A\*\*\*\*\*END\*\*\*\*\*

DAVID L THURMAN

### ENGINE LOGBOOK ENTRY

DATE: 03-10-23 N NUMBER: 514C MAKE AND MODEL: PA28-181 ENGINE MAKE: LYCOMING MODEL: O-360-A4M  
S/N: L-41697-36E TACK: 671.0 HOBBS: 761 TT: 671.0 SERVICED WITH 8-QUARTS OF AEROSHELL W80 OIL AND  
CHAMPION CH48110-1 FILTER PLUS 4 OZS CAM GUARD.

SIGNATURE: Donald L. Thurman

DAVID L. THURMAN CERT. # 3803322\*\*\*\*\*END\*\*\*\*\*

[illegible]

# Engine Log Book

Date: 13 July 2023



Reg No: <b>N514C</b>	Aircraft type: <b>PA-28-181</b>	Aircraft S/N: <b>2843684</b>
Tach: <b>691.8</b>	Hobbs: <b>781.6</b>	Aircraft Total Time: <b>691.8</b>

1. Replaced rocker box gaskets P/N: SLR75906
2. Replaced #1 lower spark plug lead P/N: S200-72
3. Replaced all sparkplugs P/N: UREM38E
4. Replaced gasket P/N: 72059 under oil filler tube.
5. Tightened oil return couplings.
6. Performed run up, Leak and OPS check good.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 13 JULY 2023

Signed: \_\_\_\_\_

A handwritten signature in black ink, appearing to be "Aaron J. Adams".

Aaron J. Adams AP 4817478