

AIRFRAME  
MAINTENANCE RECORD

Log No. \_\_\_\_\_

Aircraft Registration No. **N146AC**

Aircraft Mfg. **Cessna** Model **R172E** Serial No. **R172-0147**

Engine Mfg. **TCM** Model **IO-360-DB** Serial No. **808785-R**  
Engine Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_

Propeller Mfg. **McCauley** Model **2A34C209-A** Serial No. **170206**  
Hub Design No. \_\_\_\_\_ Hub Serial No. \_\_\_\_\_  
Blade Design No. \_\_\_\_\_ Blade Serial No. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Propeller Mfg. \_\_\_\_\_ Model \_\_\_\_\_ Serial No. \_\_\_\_\_  
Hub Design No. \_\_\_\_\_ Hub Serial No. \_\_\_\_\_  
Blade Design No. \_\_\_\_\_ Blade Serial No. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

| DATE | TOTAL<br>TIME<br>IN<br>SERVICE | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|--------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------|
|------|--------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------|

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Airframe

Date:- 07Jan18 Acft Reg:- N146AC Acft Serial No.:- R172-0147

Tach:- 1566.6 T. T. Acft:- 10571.8

Maintenance Description

Completed Annual inspection on this date. Checked components and fittings for security and condition. Serviced battery, brakes and tires. Replaced nose wheel assembly with serviceable unit. Cleaned and repacked wheel bearings. Cleaned and inspected fuel strainer. Installed IO-360-DB, S/N 808785-R after overhaul by Signature Engines, Inc. Reference W.O. E7279. Replaced air filter, P10-7336. Replaced muffler assembly, A1455009-3. Installed new prop governor C290D3- R/T6, S/N 170242. Inspected and tested ELT I/A/W FAR 91.207 (d). Replaced ELT battery, BP1030. Battery due replacement May 2019. All AD's complied with through 05Jan18 revision and entered in AD compliance log.

I certify that this Aircraft has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition

Mechanic's Signature:- Neil D. Wickliff

Certificate Number:- IA

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Airframe

Date:- 13Jun18 Acft Reg:- N146AC Acft Serial No.:- R172-0147

Tach:- 1611.5 T. T. Acft:- 10616.8

Maintenance Description

Completed 50 hour inspection on this date. Serviced battery, brakes and tires. Check all interior and exterior lights.

I certify that this Aircraft has been inspected in accordance with a 50 hour inspection and was determined to be in an airworthy condition

Mechanic's Signature:- Robert T. Cash

Certificate Number:- A&P

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Airframe

Date:- 14Jun18 Acft Reg:- N146AC Acft Serial No.:- R172-0147

Tach:- 1611.5 T. T. Acft:- 10616.8

Maintenance Description

Replaced RH main tire, AirTrac 6.00-6 6ply. Replaced 049 and knob, 6277BA.

Mechanic's Signature:- Robert T. Cash

Certificate Number:- A&P

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Airframe

Date:- 22Jun18 Acft Reg:- N146AC Acft Serial No.:- R172-0147

Tach:- 1615.8 T. T. Acft:- 10621.1

Maintenance Description

Replaced aircraft battery with new G-243, S/N G0299

Mechanic's Signature:- Robert T. Cash

Certificate Number:- A&P

SUB-TOTAL this page

TOTAL—Carry forward to next page

| DATE | TOTAL<br>TIME<br>IN<br>SERVICE | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|--------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------|
|------|--------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------|

TOTAL brought forward from previous page

SUB-TOTAL this page

TOTAL—Carry forward to next page

## ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

**N146AC**

Aircraft Registration No. \_\_\_\_\_

**TCM**

Engine Manufacturer \_\_\_\_\_

Model \_\_\_\_\_ **IO-360-DB**

Serial No. \_\_\_\_\_ **808785-R**

Date installed on aircraft 07 JAN 2018

Time Between Overhauls (TBO) \_\_\_\_\_ Hours

If used on multi-engine aircraft:

- |                                |                               |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |



(All applicable information must be filled in)

**AEROTECH PUBLICATIONS INC.**

P.O. Box 1359 / Southold, NY 11971-0965  
(631) 765-9375  
1-800-235-6444  
FAX: (631) 765-9359

| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED—<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------|-----------------------|---------------------------|------------------------------|-----------------------------------------------------------------------------------------|
|      |                       |                           |                              | TOTALS brought forward from previous page                                               |

1. Approving Civil Aviation Authority/Country:  
FAA/United States

2. **AUTHORIZED RELEASE CERTIFICATE**  
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:  
Invoice #10036

4. Organization Name and Address:  
Signature Engines Inc., 4760 Airport Road, Cincinnati, Ohio 45226  
Certificate No. E5ZR316Y

5. Work Order/Contract/Invoice Number:  
E7279

|          |                           |                 |              |                    |                  |
|----------|---------------------------|-----------------|--------------|--------------------|------------------|
| 6. Item: | 7. Description:           | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: |
| 1        | Continental Motors Engine | IO-360-DB       | 1            | 808785-R           | Overhauled       |

12. Remarks:  
THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE CONTINENTAL MOTORS MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS AIRWORTHY FOR RETURNED TO SERVICE.  
6 New Factory Steel Cylinders  
2 Overhauled Slick Magnetos  
1 New Harness  
1 Overhauled Fuel Injection  
1 New Set of New Spark Plugs  
1 Overhauled Alternator  
1 Overhauled Starter  
T.T.S.N.: 5680.1 Hours  
T.T.S.M.O.H.: 0.0 Hours

13a. Certifies the items identified above were manufactured in conformity to:  
☐ Approved design data and are in a condition for safe operation.  
☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12  
Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

|                               |                                  |                            |                                |
|-------------------------------|----------------------------------|----------------------------|--------------------------------|
| 13b. Authorized Signature:    | 13c. Approval/Authorization No.: | 14b. Authorized Signature: | 14c. Approval/Certificate No.: |
|                               |                                  |                            | E5ZR316Y                       |
| 13d. Name (Typed or Printed): | 13e. Date (dd/mm/yy):            | 14d. Date (dd/mm/yy):      |                                |
|                               |                                  | 11/jul/2017                |                                |

Terrence McRoberts, Inspector

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.  
Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.  
FAA Form 8130-3 (02-14)  
NSN: 0052-000-012-9005

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Engine

Date:- 07Jan18 Acft Reg:- N146AC Eng Serial No.:- 808785-R  
Tach:- 1566.6 T.T. Eng:- 5680.1 S.M.O.H. Eng:- 0

Maintenance Description

Completed Annual inspection on this date. Removed engine IO-360-DB, S/N 239678-R and installed IO-360-DB, S/N 808785-R overhauled by Signature Engines, Inc. Reference W.O. E7279. Installed new engine shock mounts, J9613-42. Installed overhauled Alternator DOFF10300E S/N A716025, Starter 646275-1 S/N F044982, Magnetos 6314 S/N 16090648 & 16100998 and new oil and fuel hose assemblies built by Aviall Hose Shop, Reference Oder Number: 1003522918. Serviced engine with 8qts. Aeroshell 80W mineral oil. Installed oil filter, CH48108-1. Replaced air filter, P10-7336. Replaced muffler assembly, A1455009-3. Ran engine. Checked idle mixture setting and set idle to 750 RPM. All AD's complied with through 05Jan18 revision and entered in AD compliance log.

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

Mechanic's Signature:- Neil D. Wickliff

Certificate Number:- IA

SUB-TOTALS this page

TOTALS-Carry forward to next page

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Engine

Date:- 19May18 Acft Reg:- N146AC Eng Serial No.:- 808785-R  
Tach:- 1592.8 T.T. Eng:- 5706.4 S.M.O.H. Eng:- 26.3

Maintenance Description

Removed oil cooler 646880, S/N F07-5676-107 and N 20436.

Mechanic's Signature:- Robert T. Cash

Certificate Number:- A&P

United States Air Force Aero Club 9222 Air Field Dr. USAF Academy, CO 80840

Engine

Date:- 13Jun18 Acft Reg:- N146AC Eng Serial No.:- 808785-R  
Tach:- 1611.5 T.T. Eng:- 5725.1 S.M.O.H. Eng:- 45

Maintenance Description

Completed 50 hour inspection on this date. Drained oil and serviced with 7 quarts of Aeroshell W100. Removed oil filter, cut open and inspected element for contamination. Installed new oil filter CH48108-1. and safetied. Run-up and leak check ok

I certify that this Engine has been inspected in accordance with a 50 hour inspection and was determined to be in an airworthy condition.

Mechanic's Signature:- Robert T. Cash

Certificate Number:- A&P

SUB-TOTALS this page

TOTALS-Carry forward to next page