

**AIRCRAFT  
MAINTENANCE RECORDS**

**N** 206 \$ln

**ENGINE  
LOG BOOK**



# AIRCRAFT MAINTENANCE RECORDS

Owner We Should Buy An Airplane, LLC

Aircraft Registration **N** 206JW

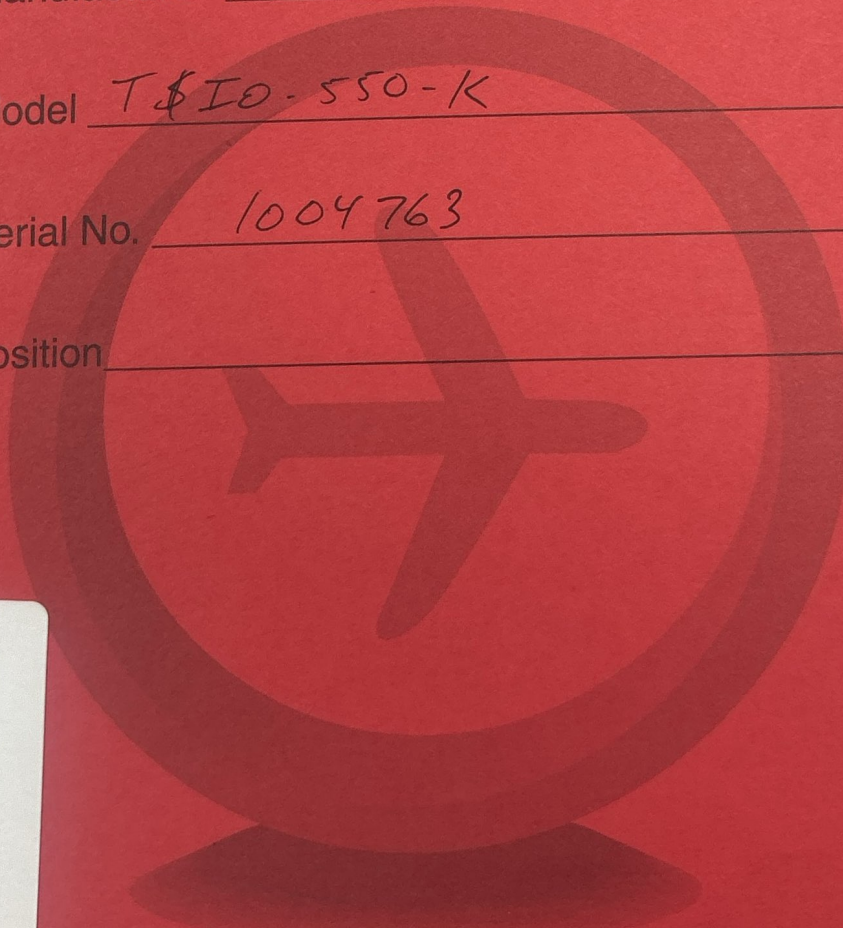

Manufacturer TCW

Model T&I O-550-K

Serial No. 1004763

Position \_\_\_\_\_

LOC: 056A P/N: 13-18060  
SINGLE ENGINE LOGBOOK  
145930069 PO: 321719 LOT: 10-18415



# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

| Date  | Total Time | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK |
|---|------------|---|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>CARRIED FORWARD</b> →</p> </div> <div style="width: 40%;"> <p><b>Clear Star Aviation</b><br/>                     Repair Station No. 5CSR009B<br/>                     4765 Frank Luke Dr<br/>                     Addison, TX 75001<br/>                     Phone: 972-267-2376</p> </div> <div style="width: 25%;"> <p>DATE: 5/30/2018<br/>                     A/C TSN: 802.3<br/>                     ENG TT: 802.3<br/>                     TACH: 802.3</p> </div> </div> <p><b>Engine Entries</b></p> <p>Performed engine 100 HR inspection. Ref Cirrus SR22/SR22T AMM 5-20 and 5-30. The cylinder compression was checked with the following results: #1, 68/80 #2, 64/80 #3, 70/80 #4, 60/80 #5, 72/80 #6, 60/80 psi. Master orifice 42/80. The oil and filter was changed and serviced with 8 quarts of Phillips 20W-50 X/C and a new AA48108-2 filter. An oil sample was collected for analysis by Blackstone Laboratories. Inspected the turbo system in accordance with the instructions for continued airworthiness document 22-6460004 Rev. C. Installed new Camshaft cover gasket. P/N 653415. Ref. Continental Motors TSIO-550 EMM 17-3.1.R/R all 6 cylinder drains gasket. P/N: 633958-2. Ref. Continental Motors TSIO-550 EMM 17-3.3. Installed new gasket P/N MS35769-11 for oil quick drain. Complied with SIL 17-02 turbocharger check valve filter installation. Installed turbocharger check valve filter P/N 658746</p> <p>Researched AD's through bi-weekly issue of this date, all AD's are in compliance at this time. I certify that this engine has been inspected in accordance with a 100HR/Annual inspection and was determined to be in airworthy condition. I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station 5CSR009B.</p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>DATE: 5/30/2018</div> <div>SIGNED: </div> <div>Work Order: 201096</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div>Johnson, Jacob<br/>Certified Repair Station No. 5CSR009B</div> <div>Printed by EBis 3 (datcomedia.com)</div> </div> |            |   |

N206SM

June 19, 2018

Flight Hobbs (Tach) 817.4  
Engine Logbook Endorsement

1. Compiled A.D. listing and placed with current logbooks. A.D.'s checked through 2018.12.

Gregory T. Woodruff A&P 3669996

|                    |  |  |
|--------------------|--|--|
|                    |  |  |
| 7-5-18 Tach 831.2  |  | Adjusted oil pressure down (3/4 turn), secured jamb nut. Adjusted MAP down as necessary. Engine ground run was normal. Sig AP3669996 |
| 7-18-18 Tach 853.0 |  | Changed engine oil + took Blackstone sample. Serviced engine with 7qt's Aeroshell 15W50 oil. No leaks noted. Sig AP3669996           |

N206SM

November 27, 2018

1. Updated AD compliance through 2018-24.

Powerplant Logbook Entry

Cornerstone Aviation LLC

Flight Hobbs: 902.9

Rachel Klebe AP3633734

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**TOTAL - CARRY FORWARD TO NEXT PAGE**

# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

| Date | Total Time | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK |
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**CARRIED FORWARD** →

N206SM  
November 28, 2018

Flight Hobbs (Tach) 902.9  
TTENG 902.9

1. Performed a compression check: #1 57/80, #2 58/80, #3 68/80, #4 58/80, #5 65/80 and #6 62/80. Master orifice was 43/80.
2. Changed oil and filter (CH48109-1). Visual inspection of the used oil filter element revealed no unusual contamination. Torqued and safetied the new oil filter. Serviced the engine with 8 quarts of Aeroshell 15W50. No leaks noted. Sent sample of old oil to Blackstone for analysis.
3. Replaced six spark plugs with new (RHB32E), installed in lower cylinder positions. Serviced and rotated remaining spark plugs. Installed each spark plug with a new gasket (M674). Torqued hardware as required.
4. Removed each fuel injector nozzle and cleaned in an ultrasonic bath. Installed each fuel injector nozzle in the correct cylinder position using all new gaskets. Cylinder #5 and 2 intake tubes required removal. Replaced each of the intake tube gaskets with new. No leaks noted.
5. Replaced the left and right induction air filters (27166-001) with new.
6. Applied RTV sealant to openings in baffling and baffle seals as necessary.

I certify that this Engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in an airworthy condition.

*Gregory T. Woodruff*  
Gregory T. Woodruff A&P 3669996

N206SM  
February 20, 2019

Powerplant Logbook Entry  
Galvin Flight Maintenance

Tach: 952.4

1. Drained oil and took a Blackstone sample serviced engine with 7 quarts Aeroshell 15w-50. No leaks noted.

Tyler Irish AP 4104817

4-6-19 Tech 961.9 Replac turbo controller (657682-5, sn. H-VFN00131) and RH Exhaust to turbo transition assy (658681, sn-017423-0002) with new. Installed using new gaskets (636465, 652456 + 652458) and new self locking nuts (W#20500-428 + W#21076-C6). Torqued + safetied hardware as required. Work was performed by Emmett Esmond and Greg Woodruff. Post maintenance engine ground runs were normal.  
*Greg AP 3669996*

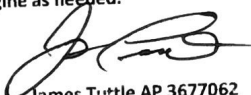
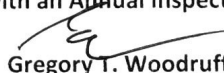
5-11-19 Tech 963.5 Remount wastegate assy + sent to main Turbo for test. Test normal. Installed wastegate assy, Torqued + safetied hardware as reqd. Performed engine ground runs adjusted WAP per Cirrus SR 22T w/w. *Greg AP 3669996*

**SUB-TOTAL** THIS PAGE

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Page No. \_\_\_\_\_

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| <b>CARRIED FORWARD</b> →  |            |   |
| 5-11-19   | 964.1      | Test flight complete. Manifold Pressure Normal throughout flight <i>Wally 2619457</i>   |
| 5-30-19   | Tach 971.3 | Replaced turbo check valve (646717) and check valve filter (658746) with new. Serviced engine with 4 quarts of Aeroshell 15w50 oil. No leaks noted. <i>AP 3669996</i> |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>N206SM<br/>June 7, 2019</p> </div> <div style="width: 40%;"> <p>Engine Logbook Entry<br/>Galvin Flying Maintenance</p> </div> <div style="width: 25%;"> <p>Tach: 973.6<br/>TTAF: 973.6</p> </div> </div><br><ol style="list-style-type: none"> <li>1. Installed a new CH48108 oil filter and serviced the Engine with 8 qts. Of Aeroshell 15w50 Engine oil.</li> <li>2. Lubricated the Engine controls.</li> <li>3. Checked the engine Magneto to Magneto timing and to Engine.</li> <li>4. Washed the Engine as needed.</li> </ol> <div style="text-align: center; margin-top: 10px;"> <br/>             James Tuttle AP 3677062         </div>   |            |   |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>N206SM<br/>June 7, 2019</p> </div> <div style="width: 40%;"></div> <div style="width: 25%;"> <p>Tach 973.6<br/>TTENG 973.6</p> </div> </div><br><ol style="list-style-type: none"> <li>1. Performed a compression check: #1 56/80, #2 50/80, #3 64/80, #4 63/80, #5 60/80 and #6 62/80. Master orifice was 43/80.</li> <li>2. Replaced six spark plugs with new, installed RHB32E. Installed the new spark plugs in lower cylinder positions. Serviced remaining spark plugs, rotated each. Installed all spark plugs with new gaskets (M674). Torqued hardware as required.</li> <li>3. A.D.'s checked through 2019-11.</li> <li>4. Drained engine oil and took a sample of the used oil. Sent sample to Blackstone for analysis.</li> </ol> <p>I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition.</p> <div style="text-align: right; margin-top: 10px;"> <br/>             Gregory I. Woodruff A&amp;P 3669996 I.A.         </div> |            |   |

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# AIRCRAFT MAINTENANCE RECORD

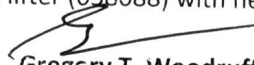
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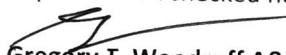

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N206SM  
September 27, 2019

Tach 994.5

1. Removed all cylinders and sent out for inspection due to excessive crankcase pressures. During the tie the cylinders were removed, each cylinder was honed/re-ringed by Premier Aircraft A.R.S. #JZYR537L under Work Order #14714 dated August 27, 2019. Installed each cylinder in the same position as removed. Installed all new piston pins (649703) and pistons (657989BPA). Installed each cylinder using all new gaskets and self-locking hardware as required. Torqued and safetied all hardware as required. Serviced the engine with 8 quarts of Aeroshell 100 Straight Mineral oil. Performed all work and engine ground runups per TCM Standard Practice Maintenance Manual Publication M-0 (applicable pages) and TCM applicable documentation. Engine ground runups were normal, no leaks noted.
2. Cleaned all fuel injector nozzles and installed each in the correct cylinder position using all new seals. No leaks noted.
3. Replaced the air conditioning drive assembly with new. Installed part number- 1133180-4. While the drive was removed, replaced the drive Garloc seal with new (25102). Torqued and safetied all hardware as required. No leaks noted. Air conditioning ground ops checked normal.
4. Replaced cylinder numbers 2 and 4 intake hydraulic lifter (658088) with new.

  
Gregory T. Woodruff A&P 3669996

|        |                    |   |
|--------|--------------------|---|
| N206SM | October 7, 2019    |   |
|        |                    | Tach 994.5  |
|        |                    | <ol style="list-style-type: none"> <li>1. Re-stabbed the left magneto, replaced magneto and cylinder #1 lower spark plug gaskets with new. Torqued hardware as required. Left magneto ops and leak checked normal. Performed by Sangmyoung Lee.</li> </ol>  |
|        |                    | <br>Gregory T. Woodruff A&P 3669996   |
|        | 10-8-19 Tach 996.2 | <p>Changed engine oil + filter (CH48108-1). Visual inspect the used oil filter element - revealed no unusual contamination. Torqued + safetied the new oil filter. Serviced engine with 8qts Aeroshell 100 straight mineral oil. No leaks noted.  AP 3665996</p> |
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# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

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289 E Perimeter Rd.  
Renton, Washington 98057  
United States

Telephone: 425-204-0845

www.aceaviationinc.com

**Manufacturer:** Teledyne Continental Motors  
**Part/Model number:** TSIO550K  
**Work Order No:** 2940

**Hour Meter:** 1,004.7  
**TSN/TSO:** 1,004.70 / N/A  
**Serial Number:** 1004763  
**Date:** 4/8/2020

**CSN/CSO:** N/A / N/A

**Squawk**

- 5.1 Reset magneto to engine timing as necessary in accordance with TCM M-18.
- 5.2 Adjusted manifold pressure controller as necessary for proper boost setting at maximum power.
- 5.3 Replaced ALT1 drive coupling with overhauled coupling p/n 646655 s/n SA3530. Overhaul performed by QAA #QYIR334Y under w/o 060145 dated 1/16/20. ALT1 removed and reinstalled under separate endorsement item 7.1 this date.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number 2940.

Sean Quinn (SEAN) 

AP3560704



289 E Perimeter Rd.  
Renton, Washington 98057  
United States

Telephone: 425-204-0845

www.aceaviationinc.com

**Manufacturer:** Teledyne Continental Motors  
**Part/Model number:** TSIO550K  
**Work Order No:** 2940

**Hour Meter:** 1,004.7  
**TSN/TSO:** 1,004.70 / N/A  
**Serial Number:** 1004763  
**Date:** 4/8/2020

**CSN/CSO:** N/A / N/A

**Squawk**

- 7.1 Removed ALT1 from engine and complied with TCM SB11-2 and 11-3 brush and coupling inspections. Reinstalled ALT1 to engine with new gasket.
- 7.2 Complied with #2 alternator brushes inspection in accordance with KAES A-137. Replaced brush holder assy with new p/n 40278. Operational checks OK.
- 7.3 Removed #2 cylinder s/n AC16GB131 due to low compression with leakage and pitting on exhaust valve. Installed new #2 cylinder kit p/n 658815A3 s/n AC19KB831 with all new gaskets. Torqued and secured in accordance with TCM M-18 and Cirrus AMM. Test ran and leak checks OK.
- 7.4 Resecured wastegate oil inlet and outlet lines as necessary. Leak checks OK.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number 2940.

Sean Quinn (SEAN) 

AP3560704

\*\*\* End of Document \*\*\*

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\* indicates possible recurring inspections

# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

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| Date | Total Time | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK |
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289 E Perimeter Rd.  
Renton, Washington 98057  
United States

Telephone: 425-204-0845

www.aceaviationinc.com

**Manufacturer:** Teledyne Continental Motors  
**Part/Model number:** TSIO550K  
**Work Order No:** 2948

**Hour Meter:** 1,004.7  
**TSN/TSO:** 1,004.70 / N/A  
**Serial Number:** 1004763  
**Date:** 4/8/2020  
**CSN/CSO:** N/A / N/A

**Squawk**

- 2.1 I certify that this engine has been inspected in accordance with the requirements of an annual inspection checklist and has been found to be airworthy at this time.
- 2.2 Test ran engine and performed compression check. Results as follows: 1: 71/80 2: 48/80 3: 72/80 4: 73/80 5: 60/80 6: 53/80 MO: 43/80. (#2 cylinder replaced w/o 2940, see other endorsements this date) Serviced and rotated spark plugs, lubricated engine controls. Routine maintenance and servicing performed in accordance with TCM M-0. Solvent washed and dried engine. Test ran and leak checks OK.
- 2.3 Drained engine oil and took oil sample (AOA). Removed spin on oil filter and inspected element for debris with no unusual contamination noted. Installed, torqued, and safetied new CH48108-1 filter. Serviced engine with 8 quarts Aeroshell 100 oil.
- 2.4 Updated AD compliance through 2020-07.
- 2.5 Performed unmetred fuel pressure and flow checks in accordance with TCM M-0 and M-18. Within specification at this time.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number 2948.

Sean Quinn (SEAN)

AP3560704IA

### MAINTENANCE RECORD

|                        |                   |  |
|------------------------|-------------------|--|
| Date: May 8, 2020      | Page 1 of 1 Pages | Reg. No: N206SM  |
| Aircraft: Cirrus SR22T | Serial # 0171     | Total Time / Flight Time / Hobbs: 1012.5 / 1012.5 / 1289.9 |
| Engine: TSIO-550-K (1) | Serial # 1004763  | Total Time: 1012.5   |

The below listed items were accomplished in accordance with the Cirrus SR22/SR22T Aircraft Maintenance Manual and other approved or acceptable data as applicable.

Work Order 042010744

[001] Right Magneto: Removed p/n 10-500556-101 s/n 011EA105 and installed a new p/n 10-500556-101 s/n D19CA131.

I certify that the above listed items have been completed, and with regard to the above items, that this engine has been approved for return to service.

Signed

Central Flying Service, Inc.

1501 Bond Street, Little Rock, AR 72202

**THOMAS PAPKA**

Phone: (501) 375-3245, (800) 888-5387

CRS No. HBKR587E

FAX (501) 374-2150

wo: WO0992

Engine - page 1 of 1



Eagles of America Inc. - 3905 Newton Road, Suite 111 - Albany, GA 31701 - 229-434-9177

**N206SM**

Flight Time: 1078.7

**Continental, TSIO-550-K(1), S/N: 1004763**

Hobbs: 1380.3

**February 12, 2021**

Removed cowling (AMM 71-10-10) drained oil (AMM 12-10-07) removed filter and reinstalled new AA48108-2 (79-20-02). Oil sample taken for analysis. Replenished sump with (8) Qts Phillips X/C 20W50. Reinstalled cowling per AMM. Ground check, OK. Return to Service

Kirby Hicks A&P IA 3555821

KH KH L JH AP 3555821


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# AIRCRAFT MAINTENANCE RECORD Page No. \_\_\_\_\_

**CA FOR**

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| wo: WO0907   | <br>Eagles of America Inc. · 3905 Newton Road, Suite 111 · Albany, GA 31701 · 229-434-9177 | Engine · page 1 of 1     |
| <b>N206SM</b><br>TACH: 1035.6  | <b>Continental, TSIO-550-K(1), S/N: 1004763</b>   | <b>February 08, 2021</b> |
| 1. Removed upper deck air rail for left hand side of engine, removed cylinder 4 air intake plenum, and loosened fuel injectors for cylinders 2, 4, and 6. Removed TCM Bendix magneto (P/N 10-500556-101) (S/N D11EA108) and replaced it with Kelly Aerospace Bendix magneto (P/N 10-500556-101) (S/N I-01615). Synced replacement magneto and verified engine timing.<br>2. Disconnected applicable hoses and caps. Attached proper gauges to test fuel pressures and performed fuel pressure tests. Removed fuel pressure hoses after tests and reconnected previously disconnected hoses and caps. Test of metered and un-metered pressures accomplished I/A/W Continental M-0. Used TSIO-550-K manual as a reference. Calibrated gauges used for measurements. Onboard Fuel Flow used as a reference.<br>3. Removed cowling (AMM 71-10-10) Drained oil (AMM 12-10-07) Removed Filter and Reinstalled New AA48108-2 (79-20-02) Oil Sample taken for analysis. Replenished sump with (8) Qts Phillips X/C 20W50. Reinstalled Cowling per AMM.<br>4. Replaced oil temperature sensor due to melted connector with new and replaced crush washer with new AN900-9 IAW Cirrus Airplane Maintenance Manual 79-30-11 – (1) 24761-002 - Oil Temp Sensor<br>5. Installed L/H intercooler gasket into proper position. Required loosening intercooler ducts on inlet and outlet, as well as all intercooler mounting bolts were removed and reinstalled.<br>Ground check, OK. Details of work performed are on file with Eagles of America Inc. under work order: WO0907. Return to Service |   |                          |
| Kirby Hicks A&P IA 3555821 <span style="font-size: 2em; vertical-align: middle;">K4</span> <span style="font-size: 2em; vertical-align: middle;">K4</span> <span style="font-size: 2em; vertical-align: middle;">K4</span> <span style="font-size: 2em; vertical-align: middle;">AP 3555821</span>   |   |                          |

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| wo: WO4026   | <br>Eagles of America Inc. · 3905 Newton Road, Suite 111 · Albany, GA 31701 · 229-434-9177 | Engine · page 1 of 1 |
| <b>N206SM</b><br>Flight Time: 1088.3   | <b>Continental, TSIO-550-K(1), S/N: 1004763</b><br>SINCE NEW: 1088.3      Hobbs: 1392.5   | <b>May 10, 2021</b>  |
| Performed 100-Hour ENGINE Inspection IAW a checklist that includes the scope and detail of 14 CFR 43 app. D. Performed differential compression test IAW Continental M-0 Section 6 and results revealed: MO 44/80 #1: 48/80 #2: 68/80 #3: 65/80 #4: 55/80 #5: 54/80 #6: 56/80. Removed spark plugs, cleaned, gapped, tested, rotated and reinstalled with new gaskets (P/N: M674). Magneto to engine timing OK. Drained oil, collected sample for analysis. Removed filter, cut for inspection and replaced with new (P/N: AA48108-2). Replenished sump with (8) quarts PHILLIPS X/C 20W-50. Removed and replaced all (12) rocker cover gaskets with new (P/N: RC7632459). Ground check ok. C/W all applicable ADs thru 2021-09. Details of work performed are on file with Eagles of America Inc. under work order: WO4026. |   |                      |
| Sandtel Thomas A&P 3144542 <span style="font-size: 2em; vertical-align: middle;">Sandtel Thomas</span>   |   |                      |

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|   | Engine  | page                |
| <b>N206SM</b><br>Flight Time: 1088.3  | <b>Continental, TSIO-550-K(1), S/N: 1004763</b><br>SINCE NEW: 1088.3      Hobbs: 1392.5 | <b>May 10, 2021</b> |
| I certify that this ENGINE has been inspected I/A/W an ANNUAL inspection and was determined to be in airworthy condition.   |   |                     |
| Kirby Hicks A&P IA 3555821 <span style="font-size: 2em; vertical-align: middle;">K4</span> <span style="font-size: 2em; vertical-align: middle;">K4</span> <span style="font-size: 2em; vertical-align: middle;">K4</span> <span style="font-size: 2em; vertical-align: middle;">AP 3555821 IA</span> |   |                     |

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\* indicates P/O - Idle recording inspection

# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

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2601 Cessna Lane NW Kennesaw, GA 30144 DK7R795J  
 LOG ID# 23281 01-October-2021 WO# 21240-0  
 N206SM S/N 0171 CIRRUS SR22T  
 HOBBS 1425.2 TACH 1113.8

Pg 1 / 1

\*\*\* ENGINE LOG ENTRY \*\*\*

PERFORMED COMPRESSION CHECK ON ALL CYLINDERS #1 60/80 #2 68/80 #3 58/80 #4 62/80 #5 50/80 #6 58/80  
 MASTER ORIFICE 42/80.

MAINTENANCE RELEASE.  
 THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED  
 IN ACCORDANCE WITH CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED TO  
 RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WO#21240  
 DATED OCT 1 2021.

Signed DK7R795J FOR DLK AVIATION

wo: WO4191

Engine · page 1 of 1



Eagles of America Inc. · 3905 Newton Road, Suite 111 · Albany, GA 31701 · 229-434-9177

**N206SM**

Flight Time: 1127.6

**Continental, TSIO-550-K(1), S/N: 1004763**

SINCE NEW: 1127.6

Hobbs: 1444.4

**June 16, 2022**

1. Performed ENGINE Annual inspection I/A/W a checklist that includes the scope and detail of 14 CFR 43 appendix D and 43.15(c)(2). Performed differential compression test I/A/W Continental M-0 Chapter 6 and results revealed: MO 45/80 #1: 50/80 #2: 70/80 #3: 32/80 #4: 60/80 #5: 52/80 #6: 59/80. Removed spark plugs, cleaned, gapped, tested, rotated, and reinstalled with new gaskets. Verified magneto to engine timing OK. Drained oil, collected sample for analysis. Removed filter, cut for inspection, and replaced with new AA48108-2. Replenished sump with (8) qts Aeroshell 100 MINERAL. All ADs researched thru 2022-11. Complied with AD 2020-16-11 and MSB18-08B by inspection. Found no cylinders affected.
  1. Removed associated parts and removed #3 cylinder. Replaced cylinder with new Continental loaded cylinder kit (P/N: 658815A2, S/N: AC22BA493) provided by J & J Air Parts, Inc. under work order number 816213. Performed compression and result was better than 74/80. Reinstalled associated parts after installing cylinder. Hardware used: (2) P/N 646312 - TCM Self Aligning Hex Nut, (4) P/N 652422 - Nut, TCM, (4) P/N 501868 - TCM Washer, w/ Tab, (2) P/N 652541 - TCM Nut 12-Point, (2) P/N 653188P020 - TCM Thrust Washer, (1) P/N 649703 - TCM Piston Pin Assembly, (2) P/N SA531001 - Nut, Cylinder Hold Down - Work accomplished by James Kelley A&P 3523001

I Certify that this ENGINE has been inspected I/A/W an ANNUAL Inspection and was determined to be in airworthy condition.

Kirby Hicks A&P IA 3555821 AP 3555821 IA

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# AIRCRAFT MAINTENANCE RECORD

Page No. \_\_\_\_\_

| Date                     | Total Time | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK |
|--------------------------|------------|---|
| <b>CARRIED FORWARD</b> → |            |   |

wo: WO4324

Engine - page 1 of 1



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**N206SM**

Flight Time: 1149.3

**Continental, TSIO-550-K(1), S/N: 1004763**  
SINCE NEW: 1149.3      Hobbs: 1473.0

**April 28, 2023**

Pilot reports rough running engine and cold EGT on Cyl #1 at low power settings. Removed Cyl #1 exhaust rocker cover and found valve springs to be weak and causing valve float. Found rocker arm worn beyond serviceable limits and pushrod bent. Removed valve to inspect valve guide for wear, determined to be serviceable. Installed **NEW** Valve spring retainer (P/n 625393), inner valve spring (P/n 654442), outer valve spring (P/n 654441), Rotocoil (P/n 652112), Retainers (P/n 24802), Pushrod (P/n 537490-4), Rocker Arm (P/n 652966), rocker shaft tab washers (P/n 501868), and rocker cover gasket (P/n RG-632459). Reinstalled all items removed for maintenance convenience. Ground ran engine for ops checks, ops checks good. Aircraft returned to service at this time.

Brantley Boyd A&P 4470562

wo: WO4349

Engine - page 1 of 1



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**N206SM**

Flight Time: 1153.1

**Continental, TSIO-550-K(1), S/N: 1004763**  
SINCE NEW: 1153.1      Hobbs: 1477.8

**July 26, 2023**

Performed **ENGINE** annual inspection IAW a checklist that includes the scope and detail of 14 CFR 43 appendix D and 43.15 (c)(1)(2). Performed differential compression test IAW Continental M-0 Section 6 and results: MO: 49/80 #1: 64/80 #2: 73/80 #3: 74/80 #4: 63/80 #5: 62/80 #6: 74/80. Removed spark plugs, cleaned, gapped, tested, rotated and reinstalled with new copper gaskets (P/N: M674). Magneto to engine timing OK. Drained oil, collected sample for analysis. Removed filter, cut and inspected (no metal found) and replaced with new Tempest filter (P/N: AA48108-2 filter). Replenished sump with (8) qts PHILLIPS 20W50X/C. Researched ADs thru 2023-14. None due at this time. I certify that this **ENGINE** has been inspected IAW an **ANNUAL** inspection and was determined to be in an airworthy condition. Ground check ok, returned to service.

Sandtel Thomas A&P IA 3144542

wo: WO4554

Engine - page 1 of 1



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**N206SM**

Flight Time: 1160.8

**Continental, TSIO-550-K(1), S/N: 1004763**  
SINCE NEW: 1160.8      Hobbs: 1490.2

**October 01, 2024**

Performed **ENGINE** annual inspection IAW a checklist that includes the scope and detail of 14 CFR 43 appendix D and 43.15 (c)(1)(2). Performed differential compression test IAW Continental M-0 Section 6 and results are as follows: (Master Orifice: 48/80) #1: 64/80 #2: 75/80 #3: 77/80 #4: 55/80 #5: 54/80 #6: 78/80. Removed spark plugs, cleaned, gapped, tested, rotated and reinstalled with new copper gaskets (P/N: M674). Magneto to engine timing ok. Drained oil and collected sample for analysis. Removed filter, cut for inspection (no metal found) and replaced with new Tempest filter (P/N: AA48108-2). Replenished sump with (8) quarts of PHILLIPS 66 XC 20W-50. Torqued exhaust bracket under #1 cylinder. Torqued #1-cylinder probe clamp as needed. Replaced rotocoil (P/N: 652112), outer valve spring (P/N: 654441), inner valve spring (P/N: SA654442), lower spring retainer (P/N: 625393), and valve retainer keys (2ea) (P/N: 24802) with new on cylinder #5 exhaust valve. Reinstalled rocker cover with new gasket (P/N: RG-632459). Researched ADs thru 2024-19. None due at this time. I certify that this **ENGINE** has been inspected IAW an **ANNUAL** inspection and was determined to be in an airworthy condition. Ground check ok, returned to service.

Sandtel Thomas A&P IA 3144542

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