



1930  
1024  
900

# ENGINE MAINTENANCE RECORDS

**Aircraft Registration** \_\_\_\_\_

**Engine Position** Right

**Engine Serial No.** 234805.R



## ENGINE MAINTENANCE RECORDS

Log No. 1

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

Engine Manufacturer TCM

Model GT510-520-H

Serial No. 234 805. R

Date installed on aircraft \_\_\_\_\_

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

Right     Left

254/752-8381

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

FAX 254-752-3307

1-800-445-9713

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| 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 |
|------|-----------------------|---------------------------|------------------------------|---|
|------|-----------------------|---------------------------|------------------------------|---|

| Date    | Total Time In Service | Total Time Since Overhaul | Tach or Recording Meter Time |
|---------|-----------------------|---------------------------|------------------------------|
| 6-30-10 | 2578.3                | 0.0                       |                              |



TCM GTSIO-520-H Right Engine S/N 234805.R

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/TCM SM X-30045A. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. K dated 2-08-2010. Above referenced engine modified per STC SE8338SW-D. Installed new TCM 1818, Rev. K dated 2-08-2010. Above referenced engine modified per STC SE8338SW-D. Installed new TCM camshaft p/n 653056, s/n 44346. Installed lifters p/n R-628488 (int.) p/n R-653877 (exh). AD 10-11-04 n/a to lifter p/n installed. Installed overhauled VAR crankshaft P/N 652832, S/N D937. Ultrasonic inspection C/W per MSB96-10A and due at next overhaul or when removed. TCM GTSIO-520 series engine crankshaft counterweights, P/N 652833-OH are repaired in accordance with FAA approved procedures per RAM Drawing 2618, Rev. B, dated 10-21-05. Instructions for Continued Airworthiness: Remove P/N 652833-OH counterweights at next engine overhaul and replace with new per TCM SB00-3A, or later FAA approved revision, except if repaired by RAM Aircraft, Limited Partnership per latest FAA approved revision of RAM Drawing 2618. Contact RAM Aircraft, L.P. at 7505 Karl May Drive, Waco TX 76708, or (254)752-8381 for replacement parts or service difficulties. AD 99-19-01 N/A per crankshaft date of manufacture I/AW TCM MSB99-6A. Engine assembled with overhauled TCM heavy style crankcase P/N 656935-14, S/N R05JA173. Installed new nickel ECI cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. TCM Service Bulletin SB06-1A per date on manufacture. Installed new RAM/FAA/PMA oil cooler P/N 2601-1, S/N 1751757. AD 86-13-04 R3 and AD 93-10-02 (MSB93-12) N/A per cylinders installed. Engine accessories exchanged for overhauled or new units with exception of tach generator, vacuum pump, prop governor and hydraulic pump which were not installed per this work order. MSB94-8D on magneto timing procedure C/W per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Installed rocker arms P/N 1654-1 and -2 (STC SE8338SW-D). Starter adapter shaftgear and crankshaft gear inspection, AD 2007-05-15 c/w per TCM Service Bulletin MSB94-4G per installation of Service Kit EQ6642 with oil supply line per RAM Dwg. No. 1224, Rev H, dated 11-18-03 per STC SE8338SW-D. Above referenced engine eligible for 1600 hr. TBO per TCM SIL98-9 Rev. A. Note 1. CSB02-8 N/A per capacitor with red insulator installed. C/W TCM CSB 04-5A per Capacitor replacement at overhaul. AD 82-13-01 is N/A per Kelly Aerospace overhauled magnetos installed. Aluminum alloy engine parts were coated per RAM Specification No. 1142. Installed RAM/FAA/PMA spring loaded induction clamps P/N 1170-1. Installed RAM-FAA-PMA rocker box cover gaskets P/N 1366-1. Engine ground run on test stand per RAM specifications for 4 hours. Engine run-in with Phillips 20W-50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Service Bulletin SIL99-1 temp. storage up to 90 days. Pertinent details on file under Project No. 5272.

*Stephen Wade*

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

|  |                 |                 |                 |
|--|-----------------|-----------------|-----------------|
| Cylinders P/N AEC 654966 S/N 72 Type 1 |                 |                 |                 |
| #1 S/N 65215-03                        | #2 S/N 65188-66 | #3 S/N 65215-17 | #4 S/N 65188-21 |
| #5 S/N 65215-02                        | #6 S/N 65215-14 |                 |                 |
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SUB-TOTALS this page  
TOTALS—Carry forward to next page



7929 Karl May Dr.  
Waco, Texas 76708

CRS No. AK6R541N

AGTT 6002.5  
Engine TT: 2578.3  
Engine SMOH: 00.0  
Prop SMOH: 1160.2  
Hour Meter: 1802.4  
Date: 09/01/2010

TCM GTSIO-520-H S/N R-234805-R

Installed above referenced engine, on right position of 421B-0315 NI01DF with "0" hours since major overhaul. (See Airframe log entries for details.) Installed new oil filter and filled engine with Mineral oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner and bulkhead. Inspected all fuel, oil and hydraulic lines and fittings. Ran compression check and readings were: 1) 79/80, 2) 79/80, 3) 79/80, 4) 79/80, 5) 78/80, and 6) 77/80. Installed new prop dc-ice brushes. Installed prop S/N 814887 after repair by Byam Propeller Service with existing time of 1160.2. (See 8130-3.) All engine accessories were replaced with new or overhauled, except: tach generator, prop governor, wastegate, and vacuum pump, which were re-installed with their existing times. Fuel and oil hoses were cleaned and re-used. A.D. 2007-05-15 backlash inspection due in 100 hours. Installed new multi segmented exhaust clamp. (Next due at 2302.4 HM.) C/W A.D. 2000-01-16 per paragraphs (b), (c), (d), (e) and (f) (Paragraph (b) next due compliance in 50 hours or 30 days whichever is later.) C/W A.D. 84-26-02 per installation of new induction air filter. (Next due in 300 hours per RAM.) A.D.'s researched through bi-weekly 2010-16. For complete compliance history of current and future compliance times, see A.D. listing in log binder. Above work done in accordance with TCM and Cessna Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 2928.

Air Impressions, Inc.  
CRS# AK6R541N



7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N

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

DATE 09/01/2010 HM 1802.4  
ENGINE SMOH 0.0  
ENGINE TT 2578.3

WORK ORDER #2928  
SIGNED

AIR IMPRESSIONS, INC  
REPAIR STATION # AK6R541N

SUB-TOTALS this page

TOTALS—Carry forward to next page

TOTALS brought forward from previous page

| 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 |
|---------|-----------------------|---------------------------|------------------------------|---|
| 9/14/10 |                       |                           | 1817.7                       | Changed oil + filter<br>100W Aeroshell C/W Exhaust Filter.<br>Mark Berley AIP 432399276 |
| 11/2/10 |                       |                           | 1841.6                       | changed oil 100W Aeroshell.<br>Mark Berley AIP 432399276                                |



3700 Operations Dr. → Newport, AR 72112 → Ph: 870-217-0832

Right Engine Jan/10/2012

| MAKE         | MODEL       | S/N      | REG #  | TACH | HOBBS  | ACFTT  |
|--------------|-------------|----------|--------|------|--------|--------|
| Cessna       | 421B        | 421B0315 | N101DF |      | 1930.1 | 6136   |
| Right ENGINE | MODEL       | S/N      |        |      | SMOH   | ENGTT  |
| TCM          | GTSIO-520-H | 234805-R |        |      | 128    | 2706.3 |

Performed inspection and service I.A.W. Continental Service Manual and checklist as outlined in Appendix "D" of the FAR'S. Ultra sonic cleaned fuel nozzles. Performed rigging and adjustments of TCM continuous flow fuel injection system as described in SID 97-3C. Drained oil and changed CH48111-1 filter. Serviced with 12 qts of Aeroshell 100W and 1 bottle of Camguard.

I certify this engine has been inspected I.A.W. an annual inspection and was determined to be in airworthy condition at this time

David W. Edmonds

A&P4321968341A

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SUB-TOTALS this page

TOTALS—Carry forward to next page

## Achievement Aviation LLC

Facility Address:  
 Van Wert County Airport  
 1400 Leeson Ave  
 Van Wert, OH 45891

Mailing Address:  
 P.O. Box 1036  
 Van Wert, OH 45891  
 Phone# (260) 525-2975

July 18, 2012 Cessna 421-B N101DF Continental GTSIO-520-H SN# 234805R Hobbs Time: 1939.0  
 Engine is in RIGHT position

Drained engine oil, cut oil filter to inspect for metal particles. None found.

Reinstalled new CH48111-1 oil filter and filled aircraft with 11 quarts Aeroshell W100.

Performed post maintenance run-up of aircraft. No leaks noted.

This entry is a return to service limited to the work performed.

Note: Did not comply with AD 2000-16-10 at this time. Paragraph (b) due at Hobbs 1973.1

Joshua L Johnson  2861559AP



### N101DF (Right Engine Logs)

Changed oil and filter (Aeroshell 80W) Swapped turbo controller from left to right engine for troubleshooting.

DATE 10/29/2012      HOBBS 2010.2

Stephen Fortner AP27977031A 



### N101DF (Right Engine Logs) CMI GTSIO520-H S/N 234805R

Inspected engine as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (2)(c) and FAR 43 App. D. Performed post inspection operational checks per FAR43.15 (c)  
 Compression #1 72/80 #2 78/80 #3 78/80 #4 79/80 #5 78/80 #6 75/80  
 Current Compression Meets Requirements of TCM SB03-3 Differential Pressure Test 3/28/03. (Master Orifice reading Minimum 46 PSI)  
 Changed oil and filter. Replaced right rear shock mount with new J9613-54. Replaced A/C drive belt. Repaired various broken and loose baffles. Cleaned and resealed fuel injector nozzles. Replaced various spark plug lead ends.  
 CW AD2007-05-15 eff. 4/16/2007(Supersedes 2005-20-04) (GTSIO520 only) (TCM MSB94-4F) Starter adapter reoccurring inspection (h) 100 hr/ or annual Starter drive backlash inspection per MSB94-4F part 2 (max .04") .04/ .04/ .04/ .04  
 AD2012-03-06 eff 2/24/2012 (supersedes ad 2011-15-10) Avstar Fuel Systems . NA affected part not installed.  
 AD2012-10-13 eff 6/8/2012 (supersedes 2011-25-51) CMI starter adapter failures. NA Per CMI service Bulletin MSB11-4B.  
 AD2008-08-17 eff. May 6, 2008 Kelly Aerospace Power Systems Turbo insp. NA per Kelley Service Bulletin 031, and 030 Rev. A.  
 AD 2010-07-08 eff. 4/19/2010 Kelly Aerospace Energy systems (turbocharger) found NA to installed turbo per Kelly SB #39A)  
 AD2011-13-03 eff. 7/13/2011 Hartzell Engine Technologies (Lycoming/TCM) Certain Turbo CHRA Contamination. NA Per HET. SB 040A.

DATE 3/5/2013      HOBBS 2056.0      Aircraft TT 6262.1      ENGINE TT: 2831.9 ENGINE TSMOVH 253.6

**"I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."**

ANTHONY R. SAXTON      AP32537461A 

TOTALS—Carry forward to next page

# Achievement Aviation LLC

Facility Address:  
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Van Wert, OH 45891

Mailing Address:  
P.O. Box 1031  
Van Wert, OH 45891  
Phone# (260) 525-2975

May 23, 2013 Cessna 421-B N101DF Continental GTSIO-520-H SN# 234805R Hobbs Time: 2175.6  
Engine is in RIGHT position

Drained engine oil, cut oil filter to inspect for metal particles. None found.

Reinstalled new CH48111-1 oil filter and filled aircraft with 12 quarts Aeroshell W100.

Performed post maintenance run-up of aircraft. No leaks noted.

This entry is a return to service limited to the work performed.

Complied with AD 2000-16-10(b) at this time. Paragraph (b) next due at Hobbs 2225.6  
Complied with AD 2007-15-05(h) - backlash less than .06 - Paragraph (h) next due at Hobbs 2275.6

Joshua L Johnson  2861559AP

\*\*\*\*\* **MUNCIE AVIATION CO. CRS#AJVR135C** \*\*\*\*\*

Right Engine DATE Tach  
N101DF 7/17/2013 2253.7

Changed Oil and Filter Serviced with 11 qts Aeroshell  
100 New Filter CH48111-1  
Ground check leak test ok

Make Cessna Ser.No. 421B0315  
Model 421B Reg.Mar N101DF

The aircraft/component identified above was repaired inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for work performed. Pertinent details of the repair are on file at the agency.  
Work Order Number A000780 Date 7/17/2013  
Signed  Inspector for  
MUNCIE AVIATION CO. CRS#AJVR135C  
MUNCIE, IN 47308 765-289-7141 



**N101DF (Aircraft Logs)**  
Cessna 421B s/n 421B0315

Reset right engine MAP and lubed both wastegates. Removed and cleaned left engine fuel injectors, resealed and reinstalled. Performed induction test and replaced one induction tube clamp.

Replaced parking brake cable with serviceable unit #5017525-16, and reassembled forward cabin floor area.

Installed left side aux in-line fuel pump #8150B s/n 27546 OVH / returned to service by The Aviation Group (CRS#VGOR728L) w.o. # 40715.

Removed failed left side alternator (ALV9510 s/n 6031900) and installed new FAA/PMA replacment Hartzell Engine Technologies ALV9610 s/n H-N030065. Installed per HET Service Information Letter A-140 and

CMI Service Bulletin SB11-3. Changed aircraft weight and balance information this date.

DATE 7/3/013 HOBBS 2235.4

ANTHONY R. SAXTON AP32537461A 


SUB-TOTALS this page

TOTALS—Carry forward to next page

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|------|-----------------------|---------------------------|------------------------------|---|
|      |                       |                           |                              | <b>TOTALS</b> brought forward from previous page  |

\*\*\*\*\***MUNCIE AVIATION CO. CRS#AJVR135C**\*\*\*\*\*

Right Engine **DATE** 7/17/2013 **Tach** 2253.7  
**N101DF**  
 Changed Oil and Filter Serviced with 11 qts Aeroshell  
 100 New Filter CH48111-1  
 Ground check leak test ok

Make Cessna Ser.No. 421B0315  
 Model 421B Reg.Mar# N101DF  
 The aircraft/component identified above was repaired inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for work performed. Pertinent details of the repair are on file at the agency.  
 Work Order Number A000780 Date 7/17/2013  
 Signed [Signature] Inspector for  
 MUNCIE AVIATION CO. CRS#AJVR135C  
 MUNCIE, IN 47308 765-289-7141 

### Achievement Aviation LLC

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 1400 Leeson Ave  
 Van Wert, OH 45891

**Mailing Address:**  
 P.O. Box 1031  
 Van Wert, OH 45891  
 Phone# (260) 525-2975

June 1, 2013 Cessna 421-B N101DF Continental GTSIO-520-H SN# 234805R Hobbs Time: 2202.1 Engine is in RIGHT position

Removed starter and starter drive assembly for inspection as required by AD 2007-15-05(j)(2) - 400 hour visual inspection by following Teledyne Continental MSB 94-4G Revised 10-31-2005. Found crankshaft gear and starter drive gear to be in satisfactory condition. Note: Starter drive gear exhibited moderate wear on 3 teeth as per figure (7) of MSB 94-4G. Reinstalled starter drive assembly with new PN# 653981 gasket - see Cessna form 8130-3 in maintenance records for parts traceability.

Complied with AD 2007-05-15(j)(2) dated 4/16/2007 by removal of starter drive and visual inspection of gears under magnifying glass as per MSB 94-4G. Paragraph (j) next due at Hobbs 2602.1  
 Complied with AD 2007-05-15(h) dated 4/16/2007 by measurement of backlash as per MSB 94-4G. Backlash measures .055 in all positions. Paragraph (H) next due at Hobbs 2302.1

Joshua L Johnson [Signature] 2861559AP

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 Van Wert, OH 45891

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 Van Wert, OH 45891  
 Phone# (260) 525-2975

August 10, 2013 Cessna 421-B N101DF Continental GTSIO-520-H SN# 234805R Hobbs Time: 2304.7 Engine is in RIGHT position

Drained engine oil, cut oil filter to inspect for metal particles. None found.  
 Reinstalled new Tempest AA48111-1 oil filter and filled aircraft with 12 quarts Aeroshell W100.  
 Performed post maintenance run-up of aircraft. No leaks noted.  
 Replaced all spark plugs with new Champion RHB32E spark plugs due to old plugs being worn beyond service limits. See FAA Form 8130-3 from Cessna Aircraft Company in aircraft records for traceability.

Complied with AD 2007-05-15(h) dated 4/16/2007 - by visual inspection of viscous damper and measurement of backlash -backlash .055 in all positions Paragraph (h) next due at Hobbs 2404.7

Joshua L Johnson [Signature] 2861559AP



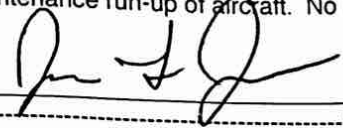
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Mailing Address:  
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Van Wert, OH 45891  
Phone# (260) 525-2975

September 30, 2013 Cessna 421-B N101DF Continental GTSIO-520-H SN# 234805R Hobbs Time 0.0  
Engine is in RIGHT position

Drained engine oil, cut oil filter to inspect for metal particles. None found.  
Reinstalled new Champion 48111 oil filter and filled aircraft with 12 quarts Aeroshell W80.  
Performed post maintenance run-up of aircraft. No leaks noted.

Joshua L Johnson  2861559AP  
-----END-----

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1400 Leeson Ave  
Van Wert, OH 45891

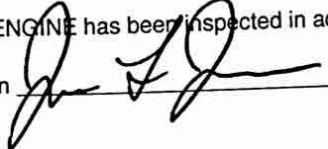
Mailing Address:  
PO Box 1031  
Van Wert, OH 45891  
Phone# (260) 525-2975

April 17, 2014 N101DF Continental GTSIO-520-H SN 234805-R Hobbs Time: 44.7 Total Time: 3187.8  
SMOH:609.5

- (1) Performed annual inspection of engine in accordance with 14CFR43 Appendix D
- (2) Performed compression test in accordance with Continental SB03-3. Compression as follows: 1-78/80, 2-78/80, 3-78/80, 4-78/80, 5-40/80, 6-76/80. Borescope examination revealed burned valves on cylinder #5
- (3) Removed cylinder #5, replaced with serviceable Continental cylinder assembly ECC72.0CN, Cylinder PN# CFCN72.0CA, SN#42405-5 returned to service by EC Services, CRS AG2R689K on W.O. 117569.1 - see yellow tags in "Left Engine" section of "Maintenance Releases" binder in airframe records. Technical references RAM DWG 1517 Rev G, Continental SB 96-7C and Continental Manual X30045A. Torque wrench: CDI Computorq 3 PN 1002CF3 Calibrated by Tool Testing Labs 04/14/2014 Cert#ACH100AE2121
- (4) Verified magneto timing to engine as per MSB 94-8D.
- (5) Drained engine oil. Cut filter and inspected as per AC43-13-1A Chapter 8 Para 6 - no significant metal particles found. Pulled sample for analysis by Blackstone Laboratories. Installed new FAA PMA Tempest AA48111 oil filter, torqued to 15 ft lbs and safetied. Refilled engine with 12 qts Aeroshell 100.
- (6) Complied with AD 2007-05-15 Eff 04/16/2007 - Starter Adaptor Backlash Inspection by following instructions of paragraph (h) of AD. Backlash was .06 in all positions. Next due at Hobbs 144.7. Para (J) will be due at hobbs 234.9

SEE SEPARATE LISTING THIS DATE FOR DETAILED STATUS OF AIRWORTHINESS DIRECTIVES

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

Joshua L Johnson  AP 2861559 IA

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SUB-TOTALS this page

TOTALS—Carry forward to next page

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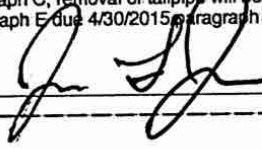
**Achievement Aviation LLC**

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 Van Wert County Airport  
 1400 Leeson Ave  
 Van Wert, OH 45891

**Mailing Address:**  
 PO Box 1031  
 Van Wert, OH 45891  
 Phone# (260) 525-2975

June 23, 2014 N101DF Continental GTSIO-520-H SN# 234805-R Hobbs Time: 95.8 Total Time: 3238.9  
 SMOH:660.6 *R.8ht*

- Performed compression test in accordance with Continental SB03-3. Compression as follows: 1-79/80, 2-79/80, 3-77/80, 4-75/80, 5-80/80, 6-79/80.
- Drained engine oil. Cut filter and inspected as per AC43-13-1A Chapter 8 Para 6 - no significant metal particles found. Pulled sample for analysis by Blackstone Laboratories. Installed new FAA PMA Tempest AA48111 oil filter, torqued to 15 ft lbs and safetied. Refilled engine with 12 qts Aeroshell 100.
- Complied with the following parts of AD 00-01-16 Eff 02/15/00
  - paragraph (b) by following instructions in Appendix of AD titled "Visual Inspection. Next due later of Hobbs 145.8 or 7/23/2014
  - Note: Paragraph C, removal of tailpipe will be due on left side at Hobbs 437.5, right side at Hobbs 500.0, paragraph D will be due at Hobbs 544.7, Paragraph E due 4/30/2015, paragraph G - removal of system for overhaul will be due June 30, 2019, Aircraft total time 7734.4, Hobbs time 1161.0

Joshua L Johnson  AP 2861559 IA  
 -----end-----


**Achievement Aviation LLC**

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 Phone# (260) 525-2975

September 13, 2014 Cessna 421-B N101DF Continental GTSIO-520-H SN# 234805R Hobbs Time: 143.7  
 Engine is in RIGHT position

- Troubleshoot right engine for failure to start. Determined cause to be: (1) low cranking RPM from starter (2) Defective left magneto
- Removed starter PN 646275 SN 0300204. Replaced with overhauled Prestolite MHJ 4003 starter, SN# H062080. See Form 8130-3 from Aerotech of Louisville, CRS PU4R453M referencing W.O. 111945 which has been given to aircraft owner for inclusion in permanent aircraft records.
- Removed left hand magneto PN#10-349220-4R SN# K032151. Replaced with overhauled PN# 10-349220-4R SN B-01100. See Form 8130-3 from Kelly Aerospace Power Systems Inc, CRS 9KPR369B referencing Work Order KES1201-174. Installed magneto and timed to engine as per Continental MSB 94-8D

Joshua L Johnson  2861559AP

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**SUB-TOTALS** this page

**TOTALS**—Carry forward to next page

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September 23, 2014 N101DF Continental GTSIO-520-H SN 234805-R Hobbs Time: 147.7 Total Time: 3290.8 SMOH:712.5

- Performed compression test in accordance with Continental SB03-3. Compression as follows: 1-78/80, 2-78/80, 3-78/80, 4-78/80, 5-79/80, 6-76/80.
- Drained engine oil. Cut filter and inspected as per AC43-13-1A Chapter 8 Para 6 - no significant metal particles found. Pulled sample for analysis by Blackstone Laboratories. Installed new FAA PMA Tempest AA48111 oil filter, torqued to 15 ft lbs and safetied. Refilled engine with 12 qts Phillips XC 20w50.
- Complied with the following parts of AD 00-01-16 Eff 02/15/00
  - paragraph (b) by following instructions in Appendix of AD titled "Visual Inspection. Next due later of Hobbs 197.7 or 10/23/2014
  - Note: Paragraph C, removal of tailpipe will be due on left side at Hobbs 437.5, right side at Hobbs 500.0, paragraph D will be due at Hobbs 544.7, Paragraph E due 4/30/2015 paragraph G - removal of system for overhaul will be due June 30, 2019, Aircraft total time 7734.4, Hobbs time 1161.0
- Complied with AD 2007-05-15 Eff 04/16/2007 - Starter Adaptor Backlash Inspection by following instructions of paragraph (h) of AD. Backlash was .06 in all positions. Next due at Hobbs 247.7. Para (J) will be due at hobbs 234.9

Joshua L Johnson  AP 2861559 IA  
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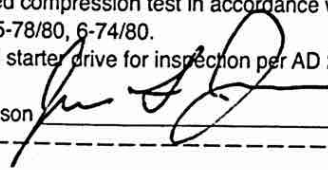
**Achievement Aviation LLC**

**Facility Address:**  
 Van Wert County Airport  
 1400 Leeson Ave  
 Van Wert, OH 45891

**Mailing Address:**  
 PO Box 1031  
 Van Wert, OH 45891  
 Phone# (260) 525-2975

May 5, 2015 N101DF Continental GTSIO-520-H SN 234805-R Hobbs Time: 227.0 Total Time: 3370.1 SMOH:791.8

- Performed compression test in accordance with Continental SB03-3. Compression as follows: 1-71/80, 2-75/80, 3-74/80, 4-78/80, 5-78/80, 6-74/80.
- Removed starter drive for inspection per AD 2007-05-15.

Joshua L Johnson  AP 2861559 IA  
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**SUB-TOTALS** this page

**TOTALS**—Carry forward to next page


| N101DF               |               | CESSNA 421B       | S/N 0315      |  |
|----------------------|---------------|-------------------|---------------|--|
| DATE: 2/1/2016       |               | Hobbs Time: 227.0 | AFTT: 6,779.8 |  |
| L ENG: GTSIO-520-H   | S/N: 1012436  | TSO: 0.0          | 1600          |  |
| R ENG: GTSIO-520-H   | S/N: 234805-R | TSO: 771.3        | 829           |  |
| L Prop: PHC-C3YD-2UF | S/N: MJ55B    | TSO: 617.7        | 1882          |  |
| R Prop: PHC-C3YD-2UF | S/N: MJ53B    | TSO: 617.7        | 1882          |  |
| L Gov: DCFS29D9-A/76 | S/N: 801454   | TSO: 0.0          | 1800          |  |
| R Gov: DCFS29D9-A/76 | S/N: 810067   | TSO: 0.0          | 1800          |  |

Complied with reoccurring AD 2000-01-16 on this engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G. Changed engine oil and filter. Replaced air-condition compressor belt. Installed overhauled prop governors on both engines, left engine S/N 810067 right engine S/N 801454. Complied with engine runs and adjustments as needed.. All current AD's complied with. I certify that this aircraft engine was inspected accordance with an annual/100-hour inspection as per 14 CFR Part 43 appendix D. This aircraft engine has been determined to be in airworthy condition.

Signature:  Alan Lance IA 337543694


| N101DF               |               | CESSNA 421B       | S/N 0315      |  |
|----------------------|---------------|-------------------|---------------|--|
| DATE: 7/19/2016      |               | Hobbs Time: 277.6 | AFTT: 6,830.4 |  |
| L ENG: GTSIO-520-H   | S/N: 1012436  | TSO: 50.6         | 1549          |  |
| R ENG: GTSIO-520-H   | S/N: 234805-R | TSO: 821.9        | 778           |  |
| L Prop: PHC-C3YD-2UF | S/N: MJ55B    | TSO: 568.3        | 1832          |  |
| R Prop: PHC-C3YD-2UF | S/N: MJ53B    | TSO: 568.3        | 1832          |  |
| L Gov: DCFS29D9-A/T6 | S/N: 781908   | TSO: 41.4         | 1759          |  |
| R Gov: DCFS29D9-A/T6 | S/N: 810067   | TSO: 50.6         | 1749          |  |

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines starter drives. Changed both engines oil and filters.

Signature:  Alan Lance IA 337543694

| N101DF               |               | CESSNA 421B       | S/N 0315      |  |
|----------------------|---------------|-------------------|---------------|--|
| DATE: 12/15/2016     |               | Hobbs Time: 318.3 | AFTT: 6,871.1 |  |
| L ENG: GTSIO-520-H   | S/N: 1012436  | TSO: 0.0          | 1600          |  |
| R ENG: GTSIO-520-H   | S/N: 234805-R | TSO: 862.6        | 737           |  |
| L Prop: PHC-C3YD-2UF | S/N: MJ55B    | TSO: 609.0        | 1791          |  |
| R Prop: PHC-C3YD-2UF | S/N: MJ53B    | TSO: 609.0        | 1791          |  |
| L Gov: DCFS29D9-A/76 | S/N: 801454   | TSO: 82.1         | 1718          |  |
| R Gov: DCFS29D9-A/76 | S/N: 810067   | TSO: 91.3         | 1709          |  |

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines. Changed both engines oil and filters. Replaced right engine exhaust turbo inlet gasket seal P/N 2274-30. Replaced right engine turbo exhaust inlet pipe P/N 9910379-30. Replaced all four forward engine mounts with new P/N J-9613-54. Installed new forward engine mount bolts and shims as required. Forward mounts were shimmed to achieve maintenance service manual minimum clearances, all four forward engine mounts were shimmed and have bolts lengths to match. All current AD's complied with. I certify that this aircraft engine was inspected accordance with an annual/100-hour inspection as per 14 CFR Part 43 appendix D. This engine has been determined to be in airworthy condition.

Signature:  Alan Lance IA 337543694

SUB-TOTALS this page

TOTALS—Carry forward to next page

| N239SE               | CESSNA 421B   | S/N 0315      |         |
|----------------------|---------------|---------------|---------|
| DATE: 7/21/2017      | Hobbs 369.3   | AFTT: 6,942.6 | 17-3362 |
| L ENG: GTSIO-520-H   | S/N: 1012436  | TSO: 162.8    | 1437    |
| R ENG: GTSIO-520-H   | S/N: 234805-R | TSO: 934.1    | 666     |
| L Prop: PHC-C3YD-2UF | S/N: MJ55B    | TSO: 680.5    | 1720    |
| R Prop: PHC-C3YD-2UF | S/N: MJ53B    | TSO: 680.5    | 1720    |
| L Gov DCFS29D9-A/76  | S/N: 801454   | TSO: 153.6    | 1646    |
| R gov DCFS29D9-A/76  | S/N: 810067   | TSO: 162.8    | 1637    |

Registration Number changed from N101DF to N239SE. Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines. Changed both engines oil and filters.

Signature:

Alan Lance IA 337543694

| N239SE               | CESSNA 421B   | S/N 0315      |         |
|----------------------|---------------|---------------|---------|
| DATE: 12/15/2017     | Hobbs 418.6   | AFTT: 6,991.9 | 17-3526 |
| L ENG: GTSIO-520-H   | S/N: 1012436  | TSO: 212.1    | 1388    |
| R ENG: GTSIO-520-H   | S/N: 234805-R | TSO: 983.4    | 617     |
| L Prop: PHC-C3YD-2UF | S/N: MJ55B    | TSO: 729.8    | 1670    |
| R Prop: PHC-C3YD-2UF | S/N: MJ53B    | TSO: 729.8    | 1670    |
| L Gov DCFS29D9-A/76  | S/N: 801454   | TSO: 202.9    | 1597    |
| R gov DCFS29D9-A/76  | S/N: 810067   | TSO: 212.1    | 1588    |

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G on both engines. Changed both engines oil and filters. All current AD's complied with. I certify that this aircraft engine was inspected accordance with an annual/100-hour inspection as per 14 CFR Part 43 appendix D. This aircraft engine has been determined to be in airworthy condition.

Signature:

Alan Lance IA 337543694

| N239SE               | CESSNA 421B   | S/N 0315      |         |
|----------------------|---------------|---------------|---------|
| DATE: 4/25/2018      | Hobbs 467.7   | AFTT: 7,041.0 |         |
| L ENG: GTSIO-520-H   | S/N: 1012436  | TSO: 261.2    | 18-3648 |
| R ENG: GTSIO-520-H   | S/N: 234805-R | TSO: 1032.5   | 568     |
| L Prop: PHC-C3YD-2UF | S/N: MJ55B    | TSO: 778.9    | 1621    |
| R Prop: PHC-C3YD-2UF | S/N: MJ53B    | TSO: 778.9    | 1621    |
| L Gov DCFS29D9-A/76  | S/N: 801454   | g 252.0       | 1548    |
| R gov DCFS29D9-A/76  | S/N: 810067   | TSO: 261.2    | 1539    |

Complied with reoccurring AD 2000-01-16 on both engine exhaust systems. Inspection items completed were the 50-hour visual inspection of both exhaust systems, the tail pipe inspection, the bulkhead/beam inspection, and completed the exhaust system pressure test as detailed in the AD. Complied with reoccurring AD 2007-05-15 by complying with Continental Motors Mandatory Service Bulletin MSB94-4G inspection on both engines. Changed both engines oil and filters.

Signature:

Alan Lance IA 337543694

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SUB-TOTALS this page

TOTALS—Carry forward to next page

| 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 |
|--|-----------------------|---------------------------|------------------------------|---|
| <b>TOTALS</b> brought forward from previous page |                       |                           |                              |   |

N239SE  
6/11/2018  
517.2 Hobbs

Changed oil, Aeroshell 15w/50, and filter, AA48111. Ground ran satisfactory.

*DAM* 3255913 A&P

**R Engine Log Entry**  
**8/9/2018**

**Sonrise Aviation**  
**524.3 Hobbs**

**N239SE**

Performed an annual inspection using a FAR 43 app. D conforming checklist. Cyl. comp; 1: 60/80, 2: 69/80, 3: 64/80, 4: 70/80, 5: 76/80, 6: 70. Cleaned and gapped sparkplugs. Replaced air/oil separator, AM107935AO. Replace upper deck pressure hose with MIL-6000 hose. Cleaned fuel nozzles. Serviced L&R mag with new points, AB382584 retard point set and AB382584 running point sets. Cylinders were all cracked at sparkplug boss. Replaced cyls. 1, 2, 3, 4, 6 with loaded, overhauled chrome cyls. from ECi. Installed with AEC520-T3 gasket kits. Replaced #5 cyl with new CMI kit, 658891A2-SPC. Work performed per GTSIO-520 overhaul manual and Continental Motors M-0. Set fuel pressures per SID97-3G Ground ran satisfactory. Searched for new ADs and researched old ADs. C/W 2007-05-15 by backlash test, checked ok, due again at 624.3 Hobbs.

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

*DAM* A&P 3255913 IA

**Right Engine Log Entry**

**Sonrise Aviation**

**N239SE**

10/1/2018 Hobbs meter reading 570.0. Oil and filter changed using Aeroshell 15w50. Run up and leak check good. Complied with AD 2001-01-16 by inspection of exhaust system.

*Wesley A. Brown* ATP312846223

**Right Engine Log Entry**

**Sonrise Aviation**

**N239SE**

11/14/18 617.3 Hobbs  
Changed oil, Aeroshell 15w/50, and filter, AA48111. C/W AD 2007-05-15 by backlash inspection, found satisfactory. Ground ran satisfactory.

*DAM* 3255913 A&P

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| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME |  |
|------|-----------------------|---------------------------|------------------------------|--|
|      |                       |                           |                              | <b>TOTALS</b> brought forward from previous page |

**R Engine Log Entry**  
2/15/2019

**Sonrise Aviation**  
643.7 Hobbs

**N239SE**  
1208.5 SMOH

Performed an annual inspection using a FAR 43 app. D conforming checklist. Cyl. comp; 1: 66/80, 2: 76/80, 3: 79/80, 4: 76/80, 5: 75/80, 6: 78/80. Cleaned and gapped sparkplugs. Replaced starter adapter spring, 643110. Chafe protected oil line under alt. Replaced #2 cyl due to crack, 658591 cyl, 646565A1 gasket set, 654716 ring set. Work performed per GTSIO-520 overhaul manual and Continental Motors M-0. Changed oil, Aeroshell 15w/50, and filter, AA48111. C/W 2007-05-15 by backlash test, checked ok, due again at 743.7 hobbs and by adapter removal, due again 1043.7 hobbs. Ground ran satisfactory.

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



A&P 3255913 IA

**Right Engine Log Entry**

**Sonrise Aviation**

**N239SE**

4-1-2019 Hobbs meter reading 665.0. Replaced starter with overhauled unit (p/n 646275-1, s/n H-N011073). Operational check good. *Wesley A. Brown* *APP 312846223*

**Right Engine Log Entry**

**Sonrise Aviation**

**N239SE**

4-1-2019 Hobbs meter reading 665.3. Oil and filter changed using Aeroshell 15w50. Run up and leak check good. *Wesley A. Brown* *APP 312846223*

**Right Engine Log Entry**

**Sonrise Aviation**

**N239SE**

5-1-2019 Hobbs meter reading 668.4. Sent all fuel components to D&G Supply for evaluation. Installed overhauled fuel pump (p/n 646211-1, s/n B01FA360RP). Installed overhauled fuel metering valve (p/n 633573-9, s/n E048721AR). Installed overhauled fuel manifold (p/n 634326-7A10, s/n J119411). Set up fuel system in accordance with SID97-3G. *Wesley A. Brown* *APP 312846223*

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**SUB-TOTALS** this page

**TOTALS**—Carry forward to next page

| 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 |
|--|-----------------------|---------------------------|------------------------------|---|
| <b>TOTALS</b> brought forward from previous page |                       |                           |                              |   |

**Right Engine Log Entry** **Sonrise Aviation**  
 7-3-2019 Hobbs meter reading 710.9. Oil and filter changed using Aeroshell 15w50. **N239SE**  
*R & J A&P 4055099*

11-21-2019 HOBBS METER READING 732.0. REPLACED STARTER WITH OVERHAULLED UNIT (MHS 4003, S/N 16889). FUNCTION CHECK GOOD Wals. A. Bourne  
 ATP312846223

**LOG BOOK ENTRY**

**N** 239SE **TIME** HobbsTime:736.6 **DATE** 01-02-2020  
Cont GTSIO-520H ETSMO: 1301.4 S/N: 234805-R

**Right engine:**  
 Changed oil and oil filter with a Blackstone oil sample taken. Cut open and inspected filter. No metal found at this time. Serviced with a new filter CH48111-1 and 12QT of Aeroshell 15W-50 oil. Removed worn EGT probe and installed new EGT probe P/N: 86255. Removed worn valve cover gaskets and installed 12 each new valve cover gaskets P/N: 655705 on all six cylinders. Performed engine run up and leak check, which checked good. No Leaks detected.

\*\*\* Page 1 of 1\*\*\*

Aircraft and/or components above were repaired and inspected in accordance with current federal aviation regulations, and were found airworthy for return to service.

Signature: *[Signature]* Work Order: 2445

Premier Avionics, LLC • 4424 Altitude Drive • Fort Wayne, IN 46809 • Tel: 260-747-4810 • CRS: 7PMR634B

**SUB-TOTALS** this page

**TOTALS**—Carry forward to next page



| 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 |
|--------|-----------------------|---------------------------|------------------------------|---|
| 6-2020 |                       | 1314.0                    |                              | TOTALS brought forward from previous page   |



2634 Airport Drive Ste. # 106 North Las Vegas, NV. 89032 Phone: 702.636.6555 May 18, 2020  
 Reg: N239SE S/N: 421B0315 Flight Hobbs: 0749.2 AFTT: 7322.5 WO: VGT-4789  
 Right Engine: GTSIO-520-H SN: 234805-R TSMOH: 1314.0

Complied with a 100hr Inspection In Accordance with Cessna 421B A/M/M, Expanded Inspection - Temporary Revision No. 13 and FAR 43, D Right Engine is current for all effective Airworthiness Directives through Bi-Weekly 2020-10.

- 1.) Current Engine Compression For The Right Engine, #1 76/80, #3 76/80, #5 76/80, #2 74/80, #4 70/80, #6 73/80, Compressions Are With In Limits.
- 2.) Removed And Replaced Engine Spark Plugs, Installed 12 New Champion RHB32E Spark Plugs, Satisfactory Upon Completion.
- 3.) Removed And Replaced Engine Air Filter, Installed New Engine Air Filter Donaldson P/N 08-06056 Satisfactory upon Completion.
- 4.) Drained Oil, Sampled Oil For Testing, Removed Filter, Cut Open Filter And Inspected, Found No Anomalies, Installed New Filter (P/N CH48111-1) Added 12 Qts. Of AeroShell 100W Plus , IAW Cessna C421B M.M. And Continental / Ram GTSIO-520 SER M.M. Performed Engine Runs And Leak Check Satisfactory At Completion.
- 5.) Complied With A.D. 07-05-15 And Continental Mandatory Service Bulletin MSB94-4H, Performed Inspection Detailed In Part 2 of MSB94-4H, The Following Results Were Found During Backlash Inspection (0°=.04") (90°=.04") (180°=.03") (270°=.03") Next Backlash Inspection Due At Hobbs Meter 849.2 And 1049.2, Results Are Within Limits For Continued Airworthiness.
- 6.) Preformed Inspection Of Exhaust As Prescribed By AD2000-01-16 Found No Discrepancies. Ground Check Good.
- 7.) Removed And Replaced Right Engine Tachometer Generator, Removed (P/N EM8000, S/N AT-13387 ), Replaced With (P/N EM8000 S/N AT10624), IAW Cessna 421C M.M. Chapter 7-80. Operational Check Satisfactory.

I certify that the maintenance described above was accomplished in accordance with the Manufacturer's Maintenance Program, requirements of 14 CFR 43, and with respect to the work performed is airworthy and approved for return to service.

Val Sutherland 3641617 A&P *Val Sutherland 3641617 A&P*

ORLANDO AIRCRAFT SERVICES 601 HUMPHRIES AVE. ORLANDO EXECUTIVE AIRPORT ORLANDO, FL  
 LOG ID# 11758 28-July-2021 WO# 120479-0 AC TT 7355.5 HOBBS 772.2  
 N239SE S/N 421B0315 CESSNA 421B Pg 1 / 1

R/H ENGINE: GTSIO-520-H S/N: 234805-R SMOH: 1337.0

ANNUAL INSPECTION/LUBRICATION PERFORMED ON ENGINE IAW SECTION 2-1 OF CESSNA 421B SERVICE MANUAL. COMPRESSIONS: 1) 70 2) 70 3) 72 4) 73 5) 69 6) 72/80psi. OIL DRAINED, FILTER REMOVED AND CUT OPEN. NO VISUAL CONTAMINATES NOTED. ENGINE SERVICED WITH 12QTS AEROSHELL W100 PLUS AND NEW CH48111-1 OIL FILTER. SPARK PLUGS CLEANED, GAPPED AND TESTED. FUEL SCREENS CHECKED, CLEANED AND SAFETIED. COMPLIED WITH AD 2020-16-11 PART g(2) INSPECTION. AD'S RESEARCHED THROUGH CURRENT ATP PUBLICATIONS. ENGINE RUN-UP AND LEAK TESTS GOOD.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I.A.W. AN ANNUAL INSPECTION AND DETERMINED TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

*Bradley E. Daniels 28 July 21*  
 AP 3479939 IA BRADLEY E. DANIELS Date

SUB-TOTALS this page  
 TOTALS—Carry forward to next page



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