

*The Standard*

# ENGINE LOG

ASA-95-2

**Engine Record** General Information

Manufacturer Continental Model O-470-RCS

Serial 202771-9-R Type Certificate \_\_\_\_\_

This engine is currently installed in aircraft: Cessna 182P S/N 18264717  
N9171M

Minimum Octane Fuel \_\_\_\_\_ Oil Grade Summer \_\_\_\_\_ Winter \_\_\_\_\_

Magneto Time \_\_\_\_\_ Point Setting \_\_\_\_\_ Firing Order \_\_\_\_\_

Spark Plug Gap \_\_\_\_\_

Manufacturer's Recommended Overhaul at \_\_\_\_\_ hours

40

Notes

This Engine Log Book started 3-22-96 for  
TCM O-470-R.S S/N 202771-9-R, installed in  
Cesna 182P S/N 18264717 N9171M @ Tach  
and Airframe Total Time 2629.8hrs.

This Engine has Total Time of 3279.7 + TSO of 944.8hrs.

Michael D. Ammerman A-P 2205775

| DATE<br>19 <u>96</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.)   |
|----------------------|---------------------------|------------------|-----------------------------|---|
| 3-22-96              | 2629.8                    | -                | 3279.7                      | TSO 944.8 hrs<br>Cleaned, gapped + checked spark<br>Plugs. Compression checked; #1 74/80 #2 76/80 #3 74/80<br>#4 76/80 #5 76/80 #6 75/80. Replaced exhaust gaskets<br>on #2, 4 + 6 cylinders.   |
|                      |                           |                  |                             | <p style="text-align: center;">ENGINE</p> <p>I certify that this aircraft has been<br/>inspected in accordance with a <u>Annual</u><br/>inspection and was approved for return<br/>to service in an airworthy condition.</p> <p>Michael D. Ammerman IA 2205775.</p> |
| 4-19-96              | Tach 2648.5               |                  |                             | Changed oil + cleaned screen. Serviced with<br>Aeroshell 15W50. Larry Koehn AIP 510628416   |
| 6-11-96              | Tach 2671.7               |                  |                             | Changed oil + cleaned screen. Serviced<br>with Aeroshell 15W50. Larry Koehn<br>AIP 510628416  |

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| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.)   |
|--------------|---------------------------|------------------|-----------------------------|---|
| 7-22-96      | Tach 2701.6               |                  |                             | changed oil & cleaned screen.<br>Serviced with Aeroshell 15W50. Larry Koehn<br>A+P 510628416  |
| 9-3-96       | Tach 2728.0 hrs.          |                  |                             | changed oil & cleaned oil screen.<br>Serviced with Aeroshell 15W50. Michael D. Ammerman A+P2205775  |
| 10-7-96      | Tach 2752.9               |                  |                             | changed oil & cleaned screen.<br>Serviced with Aeroshell 15W50. Larry Koehn A+P510628416  |
| 1-3-97       | Tach 2775.3               | TT. 34252        |                             | changed oil & cleaned screen. Serviced with<br>Aeroshell 15W50. Replaced Carb heat hose, Fresh air to heater muff<br>hose and Heater muff to cabin hose. <del>Slumpher</del> A+P5095B0143   |
| 1-21-97      | Tach 2784.1               |                  |                             | Replaced vacuum pump with overhauled unit<br>P/N 212CW Ser # 26P183 from Aero Accessories Inc. (Wor # 22583).<br>Replaced instrument air filter P/N 1J10-1 & Regulator filter<br>B3-5-1. Installed Safe-Heat Larry Koehn A+P510628416<br>model 720 engine heat pad. |

| DATE     | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)   |
|----------|---------------------|---------------|-----------------------|--|
| 19 97    |                     |               |                       |  |
| 2-18-97  | 2801.5              |               | 3451.4                | Changed oil & cleaned screen serviced with Aeroshell 15w50<br>Alumnus ATP509580143   |
| 03-18-97 | 2814.4              |               | 3464.3                | Cleaned, gapped & checked spark plugs.<br>Compressor checked: #1 77/80 #2 73/80 #3 76/80<br>#4 73/80 #5 72/80 #6 71/80.<br>I certify that this <sup>ENGINE</sup> aircraft has been inspected in accordance with a <u>Annual</u> inspection and was approved for return to service in an airworthy condition.<br>Michael D. Ammerman IA 2205775 |
| 4-18-97  | 2829.9              |               |                       | changed oil & cleaned screen serviced with Aeroshell 15w50. Larry Keehn<br>ATP 510628416   |
| 6-17-97  | 2861.8              |               |                       | changed oil & cleaned screen serviced with Aeroshell 15w50. Larry Keehn<br>ATP 510628416   |

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| DATE     | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|----------|---------------------|---------------|-----------------------|--|
| 19 97    |                     |               |                       |  |
| 8-6 Tach | 2883.3              | 1466 1115     | 3533.2                | Tsmo. 11983 changed oil + cleaned screen serviced with Aero shell 15W50 <del>Wingfield</del> A+P509580143  |
| 9-8-97   | 2907.7              |               | 3557.6                | Tsmo 1222.7 changed oil + cleaned screen serviced with Aero shell 15W50 <del>Wingfield</del> A+P509580143  |
| 10-16-97 | 2934.9              |               |                       | changed oil - cleaned screen, serviced with Aero shell 15W50.<br>Larry Keckm A+P570628416  |
| 11-20-97 | 2944.9              |               |                       | Replaced L mag with new slick model 6362 ser # 97961948.<br>Larry Keckm A+P570628416   |
| 3-9-98   | 2966.1              |               |                       | changed oil - cleaned screen, serviced with Aero shell 15W50.<br>Larry Keckm A+P570628416  |

N9171M

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**Description of Inspections, Tests, Repairs and Alterations**

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

DATE

19 98

RECORDING TACH TIME

TODAYS FLIGHT

TOTAL TIME IN SERVICE

04-03-98

Total time 3639.1 hrs. TSO 1304.2 hrs.

Changed oil and cleaned oil screen. Serviced with Aeroshell 15W50. Cleaned gapped and checked spark plugs. Compression checked: #1 74/80 #2 72/80 #3 75/80 #4 73/80 #5 77/80 #6 73/80. Installed new BA-8103-1 induction air filter element.

Engine  
I certify that this aircraft has been inspected in accordance with a Annual inspection and was approved for return to service in an airworthy condition. JA220575

Michael D. Ammerman

7-8-98

Tach

3013.4

Changed oil & cleaned screen. Serviced with Aeroshell 15W50. Replaced baffle seal material at #5 & #6 cylinders, Larry Keck  
A-10510628416

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| DATE         | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------|---------------------|---------------|-----------------------|--|
| 19 <u>98</u> |                     |               |                       |  |
| 8-11-98      | Tach 3041.9         |               |                       | Changed oil and cleaned screen. Serviced with Aeroshell 15W50.<br>Michael D. Ammeuman A# P2205775  |
| 12-16-98     | Tach 3096.1         |               |                       | Changed oil & cleaned screen. Serviced with AeroShell 15W50, Repair broken wire to engine preheat pad, Larry Koehn A# 510628416  |
| 3-1-99       | Tach 3095.5         |               |                       | changed oil & cleaned screen. Serviced with Aeroshell 15W50.<br>Larry Koehn A# 510628416   |
| 4-1-99       | Tach 3127.9         |               |                       | changed oil & cleaned screen. Serviced with Aeroshell 15W50.<br>Larry Koehn A# 510628416   |

| DATE<br>19 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.)  |
|------------|---------------------------|------------------|-----------------------------|--|
| 5-7-99     | 3140.6                    |                  | 3790.5                      | TSO 1455.6<br>Cleaned, gapped & checked sparkplugs.<br>Compression checked: #1 $\frac{76}{80}$ #2 $\frac{72}{80}$ #3 $\frac{76}{80}$ #4 $\frac{74}{80}$<br>#5 $\frac{76}{80}$ #6 $\frac{74}{80}$ . Replaced Bracket induction air<br>filter element P/N BA-8103-1.<br>I certify that this <del>aircraft</del> <sup>engine</sup> has been<br>inspected in accordance with a <u>annual</u><br>inspection and was approved for return<br>to service in an airworthy condition.<br>Larry Koehn IA510628416 |
| 5-13-99    | 3145.0                    |                  |                             | compression 1 $\frac{74}{80}$ - 2 $\frac{74}{80}$ - 3 $\frac{73}{80}$ - 4 $\frac{74}{80}$ - 5 $\frac{77}{80}$ - 6 $\frac{74}{80}$<br>Daniel Vre ACP 344386227  |



| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations   |
|------|---------------------|---------------|-----------------------|--|
| 19   |                     |               |                       | Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |

DATE

19

|                   |                    |  |                  |             |                   |
|-------------------|--------------------|--|------------------|-------------|-------------------|
| <b>MAKE</b>       | <u>CONTINENTAL</u> | <b>MODEL</b>                           | <u>0-470-RCS</u> | <b>S/N</b>  | <u>202771-9-R</u> |
| <b>Total Time</b> | <u>3838.2</u>      | <b>Hours Time Since Major Overhaul</b> |                  | <u>ZERO</u> | <b>Hours</b>      |

This engine was disassembled, cleaned, inspected and reassembled with necessary new parts in accordance with a major overhaul as per the manufacturer's current overhaul manual X-30586A New tolerances and clearances were maintained. A detailed parts list is on file at this agency. The following accessories were overhauled or exchanged. See maintenance releases in this logbook.

Installed six new TCM cylinder assemblies P/N 654959A5. Installed new slick magnetos model 6310 Right S/N 99082960 left S/N 99082968 Installed starter P/N MCL6501 S/N 2J000020 overhauled by Poplar Grove Airmotive. Installed carburetor P/N 10-4893-1 S/N 3987074 newly overhauled by Precision Airmotive Corp. END

All applicable airworthiness directives and related factory publications have been checked for compliance at this date. See list in this log book. This engine was test run in an FAA approved test cell and meets specifications. The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of repair are on file at this repair station under:

**Work Order #** 5052      **Date** 02/28/2000

**Poplar Grove Airmotive, Inc.**  
 Poplar Grove Airport, Poplar Grove, IL  
 FAA Approved Repair Station #YYBR664L

*Jeffrey Z Nelson*  
 Signed for Poplar Grove Airmotive, Inc.

56-06-01

53-15-01

78-05-09

55-08-02

88-03-06

91-19-03

83-08-17

83-18-02

87-21-02

88-01-08 L

88-17-11 C

88-19-01

2000-23-2

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| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------|---------------------------|------------------|-----------------------------|---|
|              |                           |                  |                             |   |

**Engine Airworthiness Directive Status**

|            |                             |  |
|------------|-----------------------------|--|
| 56-06-01   | Engine-Various              | N/A by model                                   |
| 53-15-01   | Exhaust Valves              | N/A to new TCM cylinder installed              |
| 59-05-09   | Oil Pressure Relief Valve   | P/C/W has original design                      |
| 55-08-02   | Exhaust Valve               | N/A to new TCM cylinder installed              |
| 56-03-06   | Oil Filter                  | N/A no filter installed                        |
| 51-19-03   | Oil Filter                  | N/A no filter installed                        |
| 53-06-17   | Oil Pick Up Tube            | N/A by engine S/N                              |
| 53-09-02   | Cylinder valve retainer key | N/A to new TCM cylinder installed              |
| 57-21-02   | Cylinder                    | N/A to new TCM cylinder installed              |
| 54-06 L    | Roller Rocker Arm           | N/A-roller rocker arms not installed           |
| 52-12-11 C | Crankshaft                  | C/W by inspection IAW para(b)                  |
| 52-19-01   | Crankshaft                  | N/A crankshaft not replaced per logbook search |
| 52-13-21   | CRANK SHAFT                 | N/A CRANK NOT REPLACED                         |

Work Order # 5052 Date 02/28/2000

Poplar Grove Airmotive, Inc.  
 Poplar Grove Airport, Poplar Grove, IL  
 Approved Repair Station #FYBR664L

*Jeffrey L. Nelson*  
 Signed for Poplar Grove Airmotive, Inc.

| DATE<br>19    | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE          | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.)  |
|---------------|---------------------------|------------------|--------------------------------------|--|
| MARCH 1, 2000 | 0 HRS                     | SMOK             | TACH READS 3188.3 HRS, 3838.2 HR. TT | <p>INSTALLED ENGINE BACK IN C-182 N 9171M. ENGINE MOUNT REPAIRED BY Pumpkin Welding. INSTALLED NEW J6545-1 LORD MOUNTS ALL NEW Suct Hose, 0-1 &amp; Fuel Hoses and Bleeding Valve. 1. INSTALLED REIFF PRE HEAT SYSTEM AND FULL FLOW OIL FILTER PER STC SE 3517PM. ADDED 11 QT PHILLIPS 20/50 TYPE M OIL. TEST RUN &amp; TEST FLIGHT OK. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p>Donald J. Jones A.C. 929401429EA</p> |

| DATE<br>19 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.)   |
|------------|---------------------------|------------------|-----------------------------|---|
| AUG 25     | 2000 TACH                 |                  | 3209.8 HRS                  | 21.5 HRS, SMOH DRAINED FUEL OIL BOOED 11qt. PINKISH 20/50 TYPE R. INSTALLED NEW OIL FILTER. Inspected OLD FILTER OK. <i>Daniel J...</i><br>A.P. 329401429 JA  |
| MAY 3 -01  | TACH                      |                  | 3226.8 HRS                  | 38.5 HRS, SMOH DRAINED Engine oil add. 11qt. PEROSHUK 15W50 WITH NEW CIT 48128 FILTER COMPRESSION AS FOLLOWS -<br>#1 $\frac{66}{80}$ #2 $\frac{70}{80}$ #3 $\frac{74}{80}$ #4 $\frac{66}{80}$ #5 $\frac{64}{80}$ #6 $\frac{66}{80}$ I<br>CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.<br><i>Daniel J...</i> A.P. 329401429 JA |

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A. Check  
B. Tighten  
C. Adjust  
D. Grease

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POPLAR GROVE AIRMOTIVE

105.5 SMOH  
3943.7 TT  
3293.8 TACH  
1/22/2003 DATE

N 9171M

1. Compression (1) 78 (2) 72 (3) 72 (4) 73 (5) 55 (6) 67/80 attached) and re-installed with new gaskets, seals and rings
2. Removed #5 cylinder - repaired under w/o 5052 ( tag
3. Pressure checked exhaust system and heat muff
4. Checked magneto timing
5. Clean, gap, test plugs
6. Changed oil and filter - inspect old filter - refill with 20/50M oil
7. Tighten intake connector clamps
8. Removed intake crossover pipe - welded worn area - re-installed
9. Adjust alternator belt
10. Replaced missing safety washers on engine mount bolts
11. Wash down engine
12. Ground run up

CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED  
IN ACCORDANCE WITH A ANNUAL INSPECTION  
AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION

*David Noe*  
David Noe IA 344386227

POPLAR GROVE AIRMOTIVE, INC.

3320.6 TACH  
7/22/2003 DATE

N 9171M

1. Remove cowl, drained oil
2. Removed oil filter and inspected for metallic particles: NONE EVIDENT
3. Installed new
- CH48108 filter, torqued and safetied
4. Refill with 11 qts. 20W50X/C
5. Re-install cowl

*John Schaefer*  
John Schaefer A&P1440690



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POPLAR GROVE AIRMOTIVE, INC.

N 9171M

|           |      |
|-----------|------|
| 3378.1    | TT   |
| 3378.1    | TACH |
| 189.8     | SMOH |
| 1/19/2004 | DATE |

1. Compression 1) 65/ 2) 76/ 3) 56/ 4) 70/ 5) 71/ - 6) 70/80
2. Clean, gap, test plugs
3. Changed oil and filter - inspect
- old filter - refill with 20-50 X/C oil
4. Checked magneto timing
5. Checked ignition leads
6. Replaced air filter element
7. Replaced #5 rocker cover gasket
8. Checked engine controls
9. Pressure checked exhaust system
10. Wash down engine
11. Ground run up

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

*David Noe*  
David Noe IA344386227

|  |       |                |
|--|-------|----------------|
| 3/31/2004  | Date  | <u>N 9171M</u> |
| N/A  | Hobbs |                |
| 3412.5   | Tach  |                |
| Changed oil and filter - inspect old filter - refill with Phillips 20-50 X/C - ground run up |       |                |
| <i>David Noe</i><br>David Noe A&P 344386227<br><b>POPLAR GROVE AIRMOTIVE</b>                 |       |                |

|                   |                            |                      |                              |   |
|-------------------|----------------------------|----------------------|------------------------------|---|
| <b>DATE</b><br>19 | <b>RECORDING TACH TIME</b> | <b>TODAYS FLIGHT</b> | <b>TOTAL TIME IN SERVICE</b> | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|-------------------|----------------------------|----------------------|------------------------------|---|

**POPLAR GROVE AIRMOTIVE, INC.**

|           |      |
|-----------|------|
| 3449.2    | TACH |
| N/A       | TT   |
| 6/23/2004 | DATE |

N 9171M

Changed oil and filter - inspect old filter - refill w/Phillips 20-50X/C

*David Noe*  
David Noe A&P 344386227

|           |                       |
|-----------|-----------------------|
|           | <b>TOTAL TIME ENG</b> |
|           | <b>SMOH</b>           |
| 3475.3    | TACH                  |
| 8/13/2004 | DATE                  |

N 9171M

1. Changed oil and filter-inspect old filter-refill with 20/50 X/C.
2. Installed new #5 rocker cover gasket.
3. Ground run up.

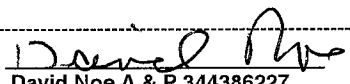
*David Noe*  
David Noe A & P 344386227  
**POPLAR GROVE AIRMOTIVE, INC.**

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|------------|------------|---------|
| n/a        | TOTAL TIME |         |
| n/a        | SMOH       | N 9171M |
| 3515.5     | TACH       |         |
| 11/15/2004 | DATE       |         |

1. Changed oil and filter-inspect old filter-refill with 20/50 X/C phillips.  
2. Removed starter adapter and reinstalled after repair.  
3. Ground run up.

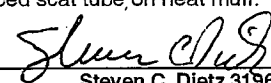
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David Noe A & P 344386227  
**POPLAR GROVE AIRMOTIVE, INC.**

|           |       |         |
|-----------|-------|---------|
| 3530.9    | TACH  |         |
| 3530.9    | TTENG |         |
| 342.6     | SMOH  | N 9171M |
| n/a       | HOURS |         |
| 1/25/2005 | DATE  |         |

1. Perform annual inspection per PGA checklist.  
2. Compression: 1. 66 2. 71 3. 25 4. 66 5. 72 6. 70/80.  
3. Removed #3 cylinder and routed to cylinder shop for overhaul. Repaired under w/o 9023.  
4. Installed cylinder with new gaskets, seal and rings. Torqued cylinder base nuts to continental torque specs.  
5. Drained oil and inspected filter--no contaminants found. 6. Installed new CH48109-1 filter and serviced with 11 quarts of 20w50M oil. 7. Adjusted magneto to engine timing. 8. Removed heat muff and pressure checked exhaust.  
9. Tightened throttle arm. 10. Replaced mixture control clamp. 11. Replaced soot tube, on heat muff.  
12. Secured mixture cable. 13. Run up and leak check.

**Verify that this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition.**

  
Steven C. Dietz 319661902 IA  
**POPLAR GROVE AIRMOTIVE**

| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations   |
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|          |            |         |
|----------|------------|---------|
| n/a      | TOTAL TIME | N 9171M |
| n/a      | SMOH       |         |
| 3554.8   | TACH       |         |
| 4/7/2005 | DATE       |         |

1. Drained oil. 2. Removed oil filter and checked for contaminants--none found.  
3. Installed new oil filter (CH48109-1) and serviced. 4. Serviced with 4 quarts 20 W 50 X/C oil.  
5. Checked compression: 1. 68 2. 72 3. 74 4. 74 5. 70 6. 70/80. 6. Perform ground run and leak check.

*Steven C. Dietz*  
Steven C. Dietz 319661902 A& P  
**POPLAR GROVE AIRMOTIVE, INC.**


|          |            |         |
|----------|------------|---------|
| n/a      | TOTAL TIME | N 9171M |
| n/a      | SMOH       |         |
| 3598.4   | TACH       |         |
| 7/6/2005 | DATE       |         |

1. Compression: 1. 67 2. 70 3. 66 4. 72 5. 68 6. 71/80.  
2. Changed oil and filter--inspect old filter--refill with 20/50 X/C.  
3. Replace #5 rocker gasket.  
4. Ground run.

*David Noe*  
David Noe A & P 344386227  
**POPLAR GROVE AIRMOTIVE, INC.**

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| DATE     | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.) |
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| 19 _____ |                           |                  |                             |   |
|          | 3639.9                    | TACH             |                             |   |
|          | n/a                       | TT ENG           |                             |   |
|          | n/a                       | SMOH             |                             |   |
|          | 9/21/2005                 | DATE             |                             |   |
|          |                           |                  |                             | <b>N 9171M</b>  |
|          |                           |                  |                             | 1. Compression 10 68/ 2) 72/ 3) 72/ 4) 70/ 5) 70/ 6) 65/80<br>2. Changed oil and filter - inspect old filter - refill with Phillips 20-50 X/C<br>3. Clean, gap, test plugs  |
|          | 3639.9                    | TACH             |                             |   |
|          | n/a                       | TT ENG           |                             |   |
|          | n/a                       | SMOH             |                             |   |
|          | 9/21/2005                 | DATE             |                             |   |
|          |                           |                  |                             | <b>N 9171M</b>  |
|          |                           |                  |                             | 1. Replaced left cabin window latch spring  |

  
Dave Noe 344386227



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| DATE   | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.) |
|--------|---------------------------|------------------|-----------------------------|---|
| 19____ |                           |                  |                             |   |

|          |       |  |  |                |
|----------|-------|--|--|----------------|
| 3704.1   | TACH  |  |  |                |
| 3704.1   | TT    |  |  |                |
| 515.8    | SMOH  |  |  | <b>N 9171M</b> |
| n/a      | HOURS |  |  |                |
| 2/8/2006 | DATE  |  |  |                |

1. Perform annual inspection in accordance with PGA checklist.
2. Compression: 1. 65 2. 68 3. 66 4. 70 5. 64 6. 64/80.
3. Cleaned and gapped spark plugs.
4. Replaced six spark plugs with URHM40E.
5. Oil was changed at 3696 tach.
6. Removed both magnetos for 500 hour inspection--see work order 9755.10.
7. Installed mags and timed to engine.
8. Prop governor overhauled by Aircraft Systems Inc on work order 38277.
9. Tightened alternator belt.
10. Pressure checked exhaust.
11. Checked engine controls.
12. Wash down engine.
13. Performed run up and leak check.

**Identify that this engine has been** inspected in accordance with an  
**annual inspection and was found to be in an airworthy condition.**

*Steven C. Dietz*  
Steven C. Dietz 3196619021A  
**POPLAR GROVE AIRMOTIVE**

| DATE    | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations  |
|---------|---------------------|---------------|-----------------------|---|
| 19      |                     |               |                       | Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)                        |
| 9/30/06 |                     |               |                       | TACH indicates 3740.2 hrs. Changed oil w/12 qts Phillips 20W50 oil & CH48109-1 Filter. Cut old Filter & checked for Contamination. Found OK. Mark Busman<br>A+P 2156335 |

5/9/06

Date 3/5/07 T.T. 3769.6 Hr. ~~Meter~~ or Tach. Indication 3769.6 TSMOH 581.3  
 TSTOH        Engine Inspection Performed in Accordance With FAR PART 43.  
 Engine Compartment  Engine Mount  Engine Controls  Cowling   
~~Cleaned Fuel Injector Nozzles~~  Cleaned & Gapped Spark Plugs   
 Checked & Cleaned Air Filter  ~~New~~ Cooling Baffles  Cylinder Base Studs,  
 Crankcase Bolts & Nuts  Intake & Exhaust Systems  Oil Screens  Oil  
 Filter Changed  Old Filter Element Checked  Fuel Sumps Drained and  
 Checked  Fuel Screens Checked  Magneto Points & Timing Checked   
 Carburetor Heat Checked  Prop Governor Checked  Prop Condition Check   
 Nicks Removed From Prop Leading Edges  Differential Compression Check   
 as follows: #174/80, #270/80, #372/80, #476/80, #572/80, #670/80, #7 /80  
 #8 /80, #9 /80. AD Compliance List at Rear of Log. AD Compliance Check  
 Through Issue 2007-04. I Certify That This Engine Has Been Inspected In  
 Accordance With A Annual Inspection and Was Found to be in Airworthy  
 Condition. signed Mark Busman A&P # 2150335 FA

Installed new PAW GA 8103-1 Filter Element

Re-Timed both MAGS TO 20° BTDC  
 Oil & Filter were NOT changed at this time

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tries.)

| DATE<br>19__ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------|---------------------------|------------------|-----------------------------|---|
| 5/9/07       |                           |                  |                             | TACH indicates 3784.2 hrs. Changed oil w/ 12 qts Phillips 20w50 oil + CH48109-1 Filter. Cut old filter + checked for contamination. RAN + checked for LEAKS.<br>Mark Brunson A+P 2150335                          |

Date 3/20/08 T.T. 3828 Hr. Meter or Tach. Indication 3828 TSMOH 639.7  
 TSTOH Engine Inspection Performed in Accordance With FAR PART 43.  
 Engine Compartment  Engine Mount  Engine Controls  Cowling   
~~Cleaned Fuel Injector Nozzles~~  Cleaned & Gapped Spark Plugs   
 Checked & Cleaned Air Filter  Cooling Baffles  Cylinder Base Studs,  
 Crankcase Bolts & Nuts  Intake & Exhaust Systems  Oil Screens  Oil  
 Filter Changed  Old Filter Element Checked  Fuel Sumps Drained and  
 Checked  Fuel Screens Checked  Magneto Points & Timing Checked   
 Carburetor Heat Checked  Prop Governor Checked  Prop Condition Check   
 Nicks Removed From Prop Leading Edges  Differential Compression Check  
 as follows: #1 70/80, #2 70/80, #3 70/80, #4 71/80, #5 75/80, #6 71/80, #7 70/80  
 #8 70/80, #9 70/80. AD Compliance List at Rear of Log. AD Compliance Check  
 Through Issue 2008-05. I Certify That This Engine Has Been Inspected In  
 Accordance With A Annual Inspection and Was Found to be in Airworthy  
 Condition. signed Mark Brunson A&P # 2150335 IA

Changed oil w/ 12 qts Phillips 20w50 + CH48109 Filter



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| DATE<br>19__           | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.)   |
|------------------------|---------------------------|------------------|-----------------------------|--|
| 5-1-2010<br>671.1 SMOH | 3859.4                    |                  |                             | PERFORMED MAINTENANCE AND INSPECTION USING<br>APPROVED FORMS AS GUIDE CLEANED & GRIPPED PLUGS TESTED<br>COMPRESSION #1 68/80 #2 67/80 #3 71/80 #4 57/80 #5 72/80<br>#6 68/80 INSPECTED BORE OF #4 CYLINDER NO ABNORMAL WEAR<br>NOTED. DRAINED OIL REFILLED WITH PHILLIPS 20W50 12QTS<br>REPLACED OIL FILTER CN48109 INSPECTED FILTER FOR<br>CONTAMINANTS NONE FOUND CHECKED ADS SEE COMPLIANCE<br>LIST WITH LOGS. I CERTIFY THAT THIS ENGINE HAS BEEN<br>INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION<br>AND FOUND TO BE AIRWORTHY. WADMAN A. ALMANN<br>AIP351386949 IA |



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|      |                     |               |                       | P.O. Allen owner   |
|      |                     |               |                       | Abstracts over   |

AUG 1, 2011 O-470-RCS S/N 202771-9-R TACH: 3960.7 ETT:4610.6 TSMO: 772.4

I certify that I have inspected this ENGINE I/A/W an annual inspection. All cables and controls were inspected, lubricated and checked for proper routing and rigging. There are no applicable AD's on this engine at this time. (see compliance sheet this date). Engine was cleaned, test ran and checked for leaks, no leaks were found at this time. I certify that this annual was done I/A/W 14 CFR 43 appendix D and this engine was determined to be in an airworthy condition for return to service.

Charles Westover *Charles Westover*

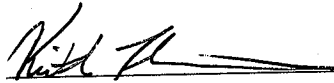
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| DATE<br>19 <u>2012</u> | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|------------------------|---------------------------|------------------|-----------------------------|---|
| 7-22-12                | 4050.2                    |                  |                             | installed Bracket Aero Filter # BA-8103-1<br>element at Mount   |

09/05/2012 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4062.3 ETT:4712.2 TSMO: 874.0

Performed Compression test #1)61/80 #2) 70/80 #3) 51/80 #4) 30/80 #5) 72/80 #6) 64/80, Removed and replaced cylinders #3 and #4 P/N: 658183A3 S/N: AC12BB980, AC12BB986, Drained oil, cut oil filter open and found there to be no metal present, serviced engine with 12Qts of aeroshell 100 mineral oil and tempest oil filter P/N AA48109-1 torqued to specs and saftied. Cleaned, gapped and reinstalled spark plugs replaced #3 and #4 top spark plugs, serviced fuel strainer, replaced induction air filter P/N BA-2505. Checked magneto timing to engine, removed exhaust, removed intake tubes, removed all hydraulic lifter and replaced with new lifters P/N 658088, replaced pushrod tube seals at both engine and cylinder side, installed new intake tubes using new intake gaskets, reinstalled valve covers using rubber gaskets, reinstalled exhaust after inspecting muffler and shroud using new exhaust gaskets and nuts, replaced two exhaust studs on cylinder #1, replaced vacuum pump and vacuum pump exhaust tube, stop drilled baffling around #2 cylinder replaced baffling gap seal on front baffle piece and around cylinder #6. Performed AD search and found there to be no applicable AD'S at this time. Test ran engine to inspect for leaks and no leaks were found at this time. All work was performed in reference with the manufactures maintenance manual. I certify that this engine is airworthy in regard to the work performed above.

Keith Thomas   
 AP3370165

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| DATE<br>19 _____ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.) |
|------------------|---------------------------|------------------|-----------------------------|--|
|------------------|---------------------------|------------------|-----------------------------|--|

SEPTEMBER 5, 2012 O-470-RCS S/N 202771-9-R TACH: 4062.3 ETT:4712.2 TSMO: 874.0

I certify that I have inspected this ENGINE I/A/W an annual inspection. All cables and controls were inspected, lubricated and checked for proper routing and rigging. There are no applicable AD's on this engine at this time. (see compliance sheet this date). Engine was cleaned, test ran and checked for leaks, no leaks were found at this time. I certify that this annual was done I/A/W 14 CFR 43 appendix D and this engine was determined to be in an airworthy condition for return to service.

Charles Westover

*Charles Westover*  
AP34881451A

09/11/2012 N9171M S/N18264717 Tach:4062.3

Removed upper and lower cowling, replaced starter adapter P/N 635050A4 and installed starter adapter P/N 635050A4 S/N CAS-2975. All work was performed in reference with the manufacture's maintenance manual; all affected components were checked for proper operation and all found to be operating within manufacture's specs. I certify that this aircraft is airworthy in regard to the work performed above, and ok for return to service.

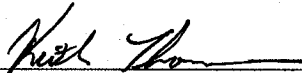
Keith Thomas

*Keith Thomas*

AP3370165

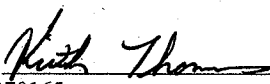
08/15/2013 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4128.5 ETT:4778.4 TSMO: 940.2

Performed Compression test #1)55/80 #2) 62/80 #3) 74/80 #4) 76/80 #5) 75/80 #6) 75/80, boroscoped cylinders to inspect walls and valves, drained engine oil and removed oil filter and found there to be no metal present, installed new AA48109-2 oil filter and serviced engine with 11qts. Of Aeroshell W100 and 1 can of camgaurd, an oil analysis sample was taken at this time. Cleaned, gapped and reinstalled spark plugs, serviced fuel strainer, lubed control cables and adjusted mixture cable so not to interfere with induction tubes, replaced induction air filter P/N BA-2505. Checked magneto timing to engine, replaced front crankshaft seal, inspected muffler and shroud, installed new front crankshaft seal, and used new locking devices on spinner backplate and propeller, replaced front left motor mount due to deterioration, performed AD search and found there to be no applicable AD'S at this time. Test ran engine to inspect for leaks and no leaks were found at this time. All work was performed in reference with the manufactures maintenance manual. I certify that this annual inspection was performed in accordance with 14 CFR 43 appendix D and using manufacturer's maintenance manual as reference and this ENGINE was determined to be in an airworthy condition for return to service.

Keith Thomas   
AP3370165IA

11/4/2013 Cessna N9171M Continental O-470-RCS S/N 202771-9-R TACH: 4148.8

Removed upper cowling, Drained oil from engine, removed oil filter cut filter open and inspected for metal no metal was present at this time, installed new oil filter P/N AA48109-2 torqued to specs and saftied, filled engine with 10 qts. Of Aeroshell w-100, and one 16oz can of camgaurd, an oil sample was taken this date. Test ran aircraft to perform operational check, operational check was within operating limits and check engine for leaks, no leaks were noted at this time, Reinstalled upper and lower cowling. All work was performed in reference with manufactures maintenance manual, aircraft ok for return to service.

Keith Thomas   
AP3370165

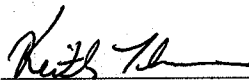
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11/4/2013 Cessna N9171M Continental O-470-RCS S/N 202771-9-R TACH: 4148.8

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Removed upper cowling, removed oil cooler and oil cooler adapter, trued oil cooler and adapter mating surfaces, installed new gasket on both parts reinstalled oil cooler adapter and oil cooler torqued to specs. Test ran aircraft to perform operational check, operational check was within operating limits and check engine for leaks, no leaks were noted at this time, Reinstalled upper and lower cowling. All work was performed in reference with manufactures maintenance manual, aircraft ok for return to service.

Keith Thomas



AP3370165

K.R.T. Aviation LLC.

Tulsa, OK 74132

(KRV5)

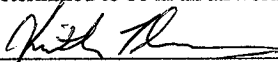
918-710-0073

08/15/2014 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4202.0 ETT: 4851.9

TSMO: 1013.7

Removed upper and lower cowling for annual inspection. Performed Compression test #1)44/80 #2)62/80 #3)58/80 #4)71/80 #5)59/80 #6)64/80, boroscoped cylinders to inspect walls and valves, drained engine oil and removed oil filter, cut filter open and inspected for metal and found there to be no metal present, installed new AA48109-2 oil filter and serviced engine with 10qts. of Aeroshell W100 and 16 oz. of camguard, an oil analysis sample was taken at this time. Cleaned, gapped and reinstalled spark plugs, replaced qty. 1 bad spark plug P/N URHM40E and replaced one spark plug lead nut due to threads getting worn, serviced fuel strainer, replaced fuel strainer stand pipe, replaced induction air filter P/N BA-8103-1. Checked magneto timing to engine, replaced intake clamp on cylinder # 6, tightened up throttle arm pivot bolt, inspected muffler and shroud, lubed controls, cables, and pivot points, [redacted] Test ran engine to inspect for leaks and no leaks were found at this time. All work was performed in reference with the manufactures maintenance manual. I certify that this annual inspection was performed in accordance with 14 CFR, 43 appendix D and using manufacturer's maintenance manual as reference and this [redacted] was determined to be in an airworthy condition for return to service.

Keith Thomas




AP3370165IA

| DATE<br>19 ____ | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
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K.R.T. Aviation LLC.  
Tulsa, OK 74132  
(KRVS)  
918-710-0073

05/29/2015 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4232.2

Removed upper and lower cowling, removed exhaust system, removed intake system, carburetor/airbox assembly. Removed cylinder #3 and #5 pushrods, tubes, and lifters, the lifters were inspected and deflated. Reinstalled lifters pushrod tubes and pushrods in the above listed cylinders. Rocker arm to valve face clearance was found to be in tolerance set forth in the Continental overhaul manual. The intake system was sent to Tailwind Inspection Services for eddy current inspection (for further information the pertinent details are on file with the Tailwind Inspections, reference work order number 9844 dated 05/22/2015). Reinstalled intake system and carburetor/airbox assembly. Fabricated new exhaust heat shield and installed on co-pilot side. Removed all spark plugs and installed new Tempest sparkplugs Qty. 12 P/N URHM40E and torqued to specs. Removed both slick magnetos Model 6310 serial numbers unknown, installed Qty. 2 new slick magnetos P/N Model 6310 S/N 14091547 and S/N 15041127, mags were timed to specs and torqued down. Removed left and right ignition harnesses and installed new left and right harness kit Sky-tronics P/NC29-11BS-II. Reinstalled upper and lower cowling. Test ran engine to inspect for leaks and no leaks were found at this time. All work was performed in reference with the manufacture's maintenance manual. Aircraft was determined to be airworthy in regards for the work performed above.

Keith Thomas   
AP3370165

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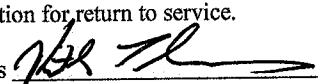
| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations   |
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K.R.T. Aviation LLC.  
Tulsa, OK 74132  
(KRVS)  
918-710-0073

09/15/2015 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4230.6 ETT: 4880.5  
TSMO: 1042.3

Removed upper and lower cowling for annual inspection. Performed Compression test #1)58/80 #2)60/80 #3)48/80 #4)78/80 #5)62/80 #6)68/80, Removed cylinder #3 and installed new continental cylinder kit. Replaced #1, #3, #5 exhaust rocker arms. Tightened cylinder #4 valve cover screws. Boroscoped cylinders to inspect walls and valves, drained engine oil and removed oil filter, cut filter open and inspected for metal and found there to be no metal present, installed new CH48109-2 oil filter and serviced engine with 10qts. of Aeroshell 100 mineral oil, an oil analysis sample was taken at this time. Cleaned, gapped and reinstalled spark plugs, replaced qty. 1 bad spark plug P/N URHM40E. Serviced fuel strainer, replaced induction air filter P/N BA-8103-1. Checked magneto timing to engine, inspected muffler and shroud, lubed controls, cables, and pivot points, performed AD search and found none to be applicable. Test ran engine to inspect for leaks and no leaks were found at this time. All work was performed in reference with the manufacture's maintenance manual. I certify that this annual inspection was performed in accordance with 14 CFR 43 appendix D and using manufacturer's maintenance manual as reference and this was determined to be in an airworthy condition for return to service.

Keith Thomas

  
AP33701651A

| DATE<br>2015<br>19 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------------|---------------------------|------------------|-----------------------------|---|
| 10-30-15           | 4244                      |                  |                             | replaced #3 CHT probe / Bayonet.<br>FDA 30-C43/AS 8005 <i>MT</i>  |
|                    |                           |                  |                             |   |
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|                    |                           |                  |                             |   |
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K.R.T. Aviation LLC.  
Tulsa, OK 74132  
(KRVS)  
918-710-0073

05/27/2016 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4249.6

Removed upper and lower cowling. Performed compression test 1) 66/80 2) 65/80 3) 75/80 4) 76/80 5) 69/80 6) 71/80.  
Replaced qty. 4 engine mounts P/N J6545-1. Reinstalled upper and lower cowling. Test ran engine to inspect for leaks  
and no leaks were found at this time. Pertinent details for work order #1666 are on file at K.R.T. Aviation. All work  
was performed in reference with the manufacture's maintenance manual. Aircraft was determined to be airworthy in  
regards for the work performed above.

Keith Thomas   
AP3370165


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| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
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K.R.T. Aviation LLC.  
Tulsa, OK 74132  
(KRVS)  
918-710-0073

10/06/2016 N9171M Continental 0-470-RCS Ser: 202771-9-R Tach: 4275.1 ETT: 4925.0  
TSMO: 1086.8

Removed upper and lower cowling for annual inspection. Performed Compression test #1)20/80 #2)45/80 #3)74/80 #4)69/80 #5)70/80 #6)70/80, Removed cylinders #1 and #2 and installed new continental cylinder kits (for further information see FAA Form 8130-3 dated 2/15/2016). Replaced #2 exhaust rocker arm, tightened down front crankcase through bolt. Drained engine oil and removed oil filter, cut filter open and inspected for metal and found there to be no metal present, installed new CH48109-2 oil filter and serviced engine with 10qts. of Aeroshell 100 mineral oil. Cleaned, gapped, tested, reinstalled spark plugs and torqued to specs. Serviced fuel strainer, replaced induction air filter P/N BA-8103-1. Checked magneto timing to engine, inspected muffler and shroud, lubed controls, cables, and pivot points, ~~performed AD search and found there to be no applicable AD's at this time.~~ Test ran engine to inspect for leaks and no leaks were found at this time. Pertinent details for work order #1715 are on file at K.R.T. Aviation. All work was performed in reference with the manufacture's maintenance manual. I certify that this annual inspection was performed in accordance with 14 CFR 43 appendix D and using manufacturer's maintenance manual as reference and this [redacted] was determined to be in an airworthy condition for return to service.

Keith Thomas   
AP33701651A

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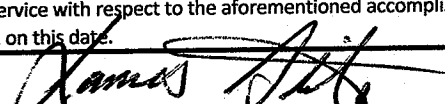
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| DATE     | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations   |
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|  |                       |                          |   |  |
|--|-----------------------|--------------------------|---|--|
| <i>Integrity Automotive, LLC</i><br><i>Hangar 54</i><br><i>Hefner - Eastley Airport</i><br><i>Wagoner, OK</i><br><i>(918)-640-7817</i>   |                       |                          | <b>Engine</b>                             |  |
|  |                       |                          | Tach: 14.6 (JPI EDM900)                   |  |
|  |                       |                          | Hobbs: 16.7                               |  |
|  |                       |                          | SMOH: 1169.4                              |  |
|  |                       | ENG TTIS: 2672.7 (SFRMN) |   |  |
| No verbal  | Customer: Al Howerton | Reg. No: N9171M          | S/N: 202771-9-R                           |  |
| <p>Performed an Annual Inspection IAW the Cessna 182 Series Maintenance Manual inspection checklist and FAR 43.13 Appendix D, as applicable and relevant sections of Continental Motors Inc. O-470 Series Service Manual, as applicable.</p> <p>1) Removed muffler heat shroud and inspected muffler barrel condition - no defects noted.</p> <p>2) Performed hot cylinder compression tests as follows: 1/74, 2/62, 3/74, 4/62, 5/70 and 6/70.</p> <p>3) Tapped-in-place cyl's. 2 and 4 exhaust valves due to leakage. Re-performed hot compression tests on cyl's. no. 2/73 and 4/70. No valve leakage noted.</p> <p>4) Replaced cyl. no. 4 torn valve cover gasket with new PMA'd silicone gasket.</p> <p>5) Borescoped all cylinders. Found no defects or combustion signature anomalies on valves or heads.</p> <p>6) Cleaned, inspected, re-gapped, bomb and resistance tested all plugs.</p> <p>7) Removed, inspected, cleaned and re-installed carb. fuel inlet screen after repairing buckling damage of the screen material due to previous improper installation.</p> <p>8) Serviced oil and filter with Champion CH48109-2 and 11 qts. Phillips XC 20W50. Opened old oil filter - no metal found.</p> <p>9) Checked mag. timing at 23 and 24.8 BTDC. Adjusted to 22 BTDC each mag. (CMI specs = 22 BTDC).</p> <p>10) Performed a post Annual Inspection run-up. Inspected for leaks - none found.</p> <p>11) Checked AD's issued since most recent engine overhaul of 2/28/2000. No new "applicable" AD's issued against this engine model.</p> <p>Engine is returned for service with respect to the aforementioned accomplished work and has been inspected IAW an Annual Inspection and found to be in a worthy condition on this date.</p> |                       |                          |   |  |
|   |                       |                          | <b>James P. Stiles A&amp;P 3412843 IA</b> |  |

| DATE     | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations<br>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|----------|---------------------|---------------|-----------------------|--|
| 19 _____ |                     |               |                       |  |

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| <b>Integrity Airmotive, LLC</b><br><b>Hangar 54</b><br><b>Hefner - Casley Airport</b><br><b>Wagoner, OK</b><br><b>(918)-640-7817</b> | <b>Engine</b> |  |  |
|  | Tach: 31.2    |  |  |
|  | Hobbs: 36.5   |  |  |
|  | SMOH: 1189.2  |  |  |
| ENG. TTIS: 2692.5 (SFRMN)  |               |  |  |

|               |                            |                 |                 |
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| PO No: verbal | Customer name: Al Howerton | Reg. No: N9171M | S/N: 202771-9-R |
|---------------|----------------------------|-----------------|-----------------|

**Performed the following work as noted:**

- 1) Removed upper and lower cowlings.
- 2) Inspected induction system manifold sections associated with cylinders no. 1 and 3 to determine possible cause for reported elevated EGT's for no's. 1 and 3 cylinders.
- 3) Removed upper and lower plugs from no. 1 cylinder, checked resistance and found within acceptable range at less than 1K ohms.
- 4) No observed indications for any leakage at induction sections that would be attributable to higher reported EGTs than the other cylinders.
- 5) Re-installed cowlings halves and re-attached cowl flaps controls rods.

Engine is returned for service this date \_\_\_\_\_

Date: 4/17/19  James P. Stiles A&P 3412843 IA

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| DATE     | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations   |
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| 19 _____ |                     |               |                       | Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |

*Integrity Airotive, LLC*  
*Hanger 54*  
*Hefner - Easley Airport*  
*Wagoner, OK*  
*(918)-640-7817*

| Engine           |              |
|------------------|--------------|
| Tach: 58.5       | (JPI EDM900) |
| Hobbs: 67.7      |              |
| SMOH: 1216.5     |              |
| ENG. TTIS 2719.8 | (SFRMN)      |
| S/N: 202771-9-R  |              |

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| Verbal | Customer name: Al Howerton | Reg. No: N9171M | S/N: 202771-9-R |
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Performed the following maintenance work as follows:

- Removed right stack and muffler assembly for required muffler repairs.
- Installed right stack and O/H'd muffler assembly after repairs performed by Dawley Aviation (see attached work order)
- Temporarily installed right stack and O/H'd muffler assembly, clocked muffler assembly to lower cowling opening, marked and ground clamp tab
- Drilled holes in muffler flanges for centering tail pipe through lower cowling opening.
- Installed right stack and O/H'd muffler assembly using (3) SA628260 new exh. flange gaskets, (12) new MS20500-428 high heat exh. flange
- Installed with new muffler clamp hardware (8) AN3-4A bolts, (16) AN960 flat washers and (8) AN363-1032 high heat stop nuts.
- Installed all previously removed parts and components required to access and facilitate muffler repairs.
- Work has been performed IAW the engine manufacturer's specifications and FAR Part 43, as applicable. This aircraft is returned for service

*James P. Stiles*

James P. Stiles A&P 3412843 IA

|   |                         |
|---|-------------------------|
| <i>Integrity Airotive, LLC</i><br><i>Hangar 54</i><br><i>Hefner - Easley Airport</i><br><i>Wagoner, OK</i><br><i>(918)-640-7817</i> | Engine                  |
|   | Tach: 61.5 (JPI EDM900) |
|   | Hobbs: 69.9             |
|   | SMOH: 1218.7            |
| ENG TTIS: 2722.0 (SFRM)   |                         |

|               |                            |                 |                 |
|---------------|----------------------------|-----------------|-----------------|
| PO No: Verbal | Customer name: Al Howerton | Reg. No: N9171M | S/N: 202771-9-R |
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Performed the following maintenance work as follows:

- 1) Removed upper and lower cowling assemblies to facilitate no. 6 cylinder replacement for suspect sticking valve concern.
- 2) Drained oil and changed oil filter.
- 3) Removed all necessary components for access and removal of no. 6 cylinder.
- 4) Removed no. 6 cylinder and replaced with new SAP Millennium cylinder P/N SA47006S-A21P, S/N E-03075A. Torqued to Continental specifications. See
- 5) Installed O/H'd recertified rocker arm assemblies (exh./int.) See Aircraft Specialties 8130-1 form attached this page.
- 6) Re-installed all previously removed components for cylinder replacement.
- 7) Solvent washed engine, serviced with 11 qts Aeroshell 100 break-in oil and performed engine run-up for leak checks. Leak checks are good. Re-cowled engine.

All work has been performed IAW the engine manufacturer's specifications and FAR Part 43, as applicable. This aircraft engine is returned for service this date.

|              |   |                                |
|--------------|---|--------------------------------|
| Date: 1/9/20 |  | James P. Stiles A&P 3412843 IA |
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Operations  
Number of  
entries.)

| DATE     | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations   |
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| 19 _____ |                     |               |                       | Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |

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| <b>Integrity Airotive, LLC</b><br><b>Hanger 54</b><br><b>Hefner - Eastley Airport</b><br><b>Wagoner, OK</b><br><b>(918)-640-7817</b>   |                       |                           | <b>Engine</b><br>Tach: 61.1<br>Hobbs: 69.9<br>SMOH: 1218.7<br>ENG. TTIS: 2722.0 (SFRM) |  |
| PO No: verbal  | Customer: Al Howerton | Reg. No: N9171M           | S/N: 202771-9-R  |  |
| <p>Performed an Annual Inspection IAW the Cessna 182 Series Maintenance Manual inspection checklist and FAR 43.13 Appendix D, as applicable and relevant sections of Continental Motors Inc. 0-470 Series Service Manual, as applicable.</p> <ol style="list-style-type: none"> <li>1) Removed muffler heat shroud and inspected muffler barrel condition - no defects noted.</li> <li>2) Performed cylinder compression tests as follows: 1/62, 2/70, 3/70, 4/66, 5/72 and 6/74.</li> <li>3) Replaced cyl. no. 4 valve cover gasket with new PMA'd silicone gasket.</li> <li>4) Borescoped all cylinders. Found no defects or combustion signature anomalies on valves or heads.</li> <li>5) Cleaned, inspected, re-gapped, bomb and resistance tested all plugs.</li> <li>6) Removed, inspected, cleaned and re-installed carb. fuel inlet screen.</li> <li>7) Checked mag. timing at 21.3 BTDC. Adjusted to 22 BTDC each mag. (CMI specs = 22 BTDC).</li> <li>8) Replaced no. 5 pushrod tube seals with new PMA silicone seals and washers.</li> <li>9) Anti-chafe guarded fuel drain cable housing at alternator mounting bracket.</li> <li>10) Plugged 1/2" hole in upper right firewall with steel push button plug (Wilky plug).</li> <li>11) Checked AD's issued since most recent engine overhaul of 2/28/2000. No new "applicable" AD's issued against this engine model.</li> </ol> <p>This engine is returned for service with respect to the aforementioned accomplished work and has been inspected IAW an Annual Inspection and found to be in an airworthy condition on this date.</p> |                       |                           |  |  |
| 2/1/20<br>  |                       | James P. Stiles A&P 34128 |  |  |

**Integrity Airmotive, LLC**  
**Hangar 54**  
**Hefner - Casley Airport**  
**Wagoner, OK**  
**(918)-640-7817**

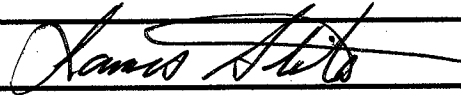
Tach: 172.5  
Hobbs: 188.9  
SMOH: 1347.9  
ENG TTIS: 2851.2 (SFRMN)

PO No: verbal      Customer: Al Howerton      Reg. No: N9171M      S/N: 202771-9-R

Performed an Annual Inspection IAW the Cessna 182 Series Maintenance Manual inspection checklist and FAR 43.13 Appendix D, as applicable and relevant sections of Continental Motors Inc. O-470 Series Service Manual.

- 1) Removed and replaced L & R exhaust stacks with new PMA'd stacks by AWI P/N A0750238-20 on their S/O 0204858 dated 3/15/2021. AWI S/N's 208879 and 209795. Clocked muffler to correct cowling position and drilled for clamp locating dowels. Installed all new clamps, gaskets and hardware provided by AWI on same S/O no.
  - 2) Removed propeller, replaced crankshaft seal with new PMA'd Superior Air Parts seal P/N SA641250. Re-installed propeller using new hub o-ring and propeller nuts (see propeller logbook for pertinent details on this work.)
  - 3) Adjusted left magneto-to-engine timing from as-found 22.8 BTDC to 22.0 BTDC. Right magneto timing found good at 22.0 BTDC.
  - 4) Removed and replaced no. 1 cylinder after initial and final compression checks revealed 12/80 reading. Installed Superior Millennium replacement cylinder assembly P/N A47006S-A21P, S/N 476S000002030 after dimensional checks of ring gaps per applicable Superior Air Parts Service Bulletin. All work accomplished IAW Continental O-470 Maintenance Manual and Superior Air Parts applicable Service Bulletins. Installed cylinder assembly and piston using new piston pin P/N SASA539467. Engine serviced with 11 qts Aeroshell 100 oil and new oil filter installed.
  - 5) R & R cyl. no 1 rocker arms (2) after refurbishment of same by Aircraft Specialties under their W/O 265924 dated 4/23/21.
  - 6) Removed oil cooler for leaking gasket replacement. Flushed oil cooler clean with solvent and air pressure dried. Installed cooler unit using new oil cooler and cooler adapter plate gaskets.
  - 7) Replaced oil filler neck gasket and filler cap seal with new gasket and seal.
  - 8) Replaced oil dipstick o-rings and hose coupling with new parts.
  - 9) Replaced all pushrod tube seals with new aftermarket PMA'd seal kit from Real Gasket Co.
  - 10) Replaced induction air filter element with new Brackett element P/N BA-8103-1.
  - 11) Replaced starter o-ring with new o-ring.
  - 12) Checked hot compressions after no. 1 cylinder replacement and engine warm up IAW CMI SB03-3 with a MO reading of 43 psi on this date. Compression values observed are as follows: 1/74 ; 2/57 ; 3/64 ; 4/58 ; 5/72 ; 6/74 . (No. 1 new cylinder hour accumulation is 5.8 hrs since installation.)
- Performed an AD search for status of engine AD compliance. Found all AD's in compliance as of latest engine AD 16-16-12 dated 9/15/16. This engine has completed an Annual Inspection, was repaired as required, determined to be in an airworthy condition, and is returned for service on this date.

Date: 5/6/21



James P. Stiles    A&P 3412843 IA

| DATE | RECORDING TACH | TODAYS FLIGHT | TOTAL TIME IN | Description of Inspections, Tests, Repairs and Alterations |
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Entries must be endorsed with Name, Rating and Certificate Number of (for other specific entries)

|   |                           |                 |   |  |
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| <i>Integrity Automotive, LLC</i><br><i>Hangar 54</i><br><i>Hefner - Easley Airport</i><br><i>Wagoner, OK</i><br><i>(918)-640-7817</i> |                           |                 | <b>Engine</b><br>Tach: 212.8<br>Hobbs: 231.8<br>SMOH: 1388.2<br>ENG. TTIS: 2891.5 |  |
| <input checked="" type="checkbox"/> No: verbal  | Customer: Carbon 182, LLC | Reg. No: N9171M | S/N: 202771-9-R   |  |

Performed an Annual Inspection IAW the Cessna 182 Series Maintenance Manual inspection checklist and FAR 43.13 Appendix D, as applicable and relevant sections of Continental Motors Inc. 0-470 Series Service Manual and publication M-0, rev. 1 dated 2/2021.

- 1) Drained oil, removed filter and inspected for metal - no metal observed. serviced with new Tempest AA48109 filter and 12 qts Aeroshell 100 mineral oil for break-in of newly installed cylinders.
- 2) Performed a cylinder differential compression check using Continental's specifications found in CMI publication M-0, rev. 1 dated 2/2021, section 6-1.1.2. Compressions were noted as follows 1/67; 2/20; 3/49; 4/42; 5/65; 6/72.
- 3) At customer's request, removed cylinders no. 2, 3, 4 and 5 due to low compressions and exhaust valve leakage.
- 4) Replaced same removed cylinders with new Superior Airparts Millennium cylinders P/N SA47006S-A21P as follows: Cyl. no. 2 S/N 476S000003296; Cyl. no. 3 S/N 476S000003297; Cyl. no. 4 S/N 476S000003298 and Cyl. no. 5 S/N 476S000003299. Checked piston ring end gaps per SAP specifications and found within spec's. Installed four (4) new SAP piston pins P/N SA539467. Installed O'H'd rocker arms by Aircraft Specialties Services re-certified under their W/O 773227 - (see attached 8130-3)
- 5) Inspected and re-installed all previously removed engine components necessary to facilitate affected cylinder replacements.
- 6) Checked engine timing at 22 deg. BTDC per CMI specifications - no changes made.
- 7) Removed crankcase lower front nose through-bolt due to leaking oil. Cleaned and sealed with RTV and re-torqued to CMI specifications.
- 8) Resealed misc. air leak paths in engine cooling shrouds with RTV.
- 9) Performed an AD search for status of engine AD compliance. Found all AD's in compliance as of latest engine AD22-04-04 dated 3/29/22 which is not applicable - no Stratus (F&M) oil filter installed.

The engine has completed an Annual Inspection, was repaired as required, determined to be in an airworthy condition, and is returned for service on this date.

|  |   |   |
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|  |  | <b>James P. Stiles A&amp;P 3412843 IA</b> |
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| DATE<br>19 | RECORDING<br>TACH<br>TIME | TODAYS<br>FLIGHT | TOTAL<br>TIME IN<br>SERVICE | <b>Description of Inspections, Tests, Repairs and Alterations</b><br>Entries must be endorsed with Name, Rating and Certificate Number of<br>Technician or Repair Facility. (See back pages for other specific entries.) |
|------------|---------------------------|------------------|-----------------------------|--|
| 7/8/22     | 220.0                     |                  |                             | CHANGED OIL + FILTER - 12 qts AEROSHELL W100   |
|            |                           |                  |                             | NEW TEMPEST AA 48109 OIL FILTER  |
|            |                           |                  |                             | BRAD PALL  |

01 July 2023 HUNTSVILLE AVIATION 251.1 Tach 2929.8 Total Time 1426.5 SMOH

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition. Changed engine oil and filter. Used Aeroshell W100 and 48-109 Runup and leak check OK.

*Wade Gillaspie*  
Wade Gillaspie A&P453134035

01 Aug 2024 HUNTSVILLE AVIATION 264.2 Tach 2942.9 Total Time 1439.6 SMOH

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition. Changed engine oil and filter. Used Aeroshell W100 and 48-109 Runup and leak check OK.

*Wade Gillaspie*  
Wade Gillaspie A&P453134035

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Date: 9-5-2025

Aircraft # N9171M

Serial # 202771-9-R

Tach: 304.0

Total Time: 5297.0

SMOH: 1458.8

Changed oil and filter. Cut open oil filter and inspected. no metal found. Serviced engine with Aeroshell W100 and filter P/N AA48109. Serviced spark plugs. Replaced 6 plugs P/N URHM40E. Replaced air filter P/N BA-8103-1. Performed compression test. #1.66/80 #2.72/80 #3.60/80 #4.70/80 #5.76/80 #6.64/80. Replaced alt belt P/N 539547-31.19. Replaced remote oil filter flexible oil hoses. Cleaned engine and test ran. C/W AD 22-16-03 S-1200 Series Magneto Roller Bearings NA. C/W AD 23-02-12 Intake valve failures NA part number. C/W AD 23-05-16 Crankshaft counterweight retaining ring. NA by date. C/W AD 23-17-04 Oil filter adapter gasket NA part not installed.

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

Prepared By: Jason Paradis

Certification #A&P 2756658

I certify that this engine has been inspected in accordance with a Annual Inspection and was determined to be in air worthy condition.

Robert W Speck

Certification # AP 3821379 IA

DATE

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Date: 1

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