

N297CD

# ENGINE LOG BOOK



# CONTINENTAL MOTORS

**Service Information**

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

**Engine Returns**

All returned engines are to be shipped with this log book Directly to:

**Teledyne Continental Motors  
Abbeville Industrial Park  
Suite 159  
Abbeville, AL 36310**

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



**Teledyne Continental Motors, Inc.**  
A Teledyne Technologies Company

Printed: 08/02/2002

This engine model 10360ES6, Serial No. 357535 was manufactured on 07/31/2002 by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



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**TELEDYNE CONTINENTAL MOTORS**


A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date    | Total Time |      | Time Since Last Overhaul |      |
|---------|------------|------|--------------------------|------|
|         | Hrs.       | Min. | Hrs.                     | Min. |
| 8-15-02 | 0          | 0    |                          |      |
| 10-4-02 | 30.1       |      |                          |      |
|         | 86.4       |      |                          |      |

Serviced Engine with 8 Qts of Phillips 20W50 Straight Mineral Oil on 8/15/02 by  MFG 105

Performed oil and filter change, serviced with 8 qts. Phillips 20W50 Straight Mineral Oil and installed Champion CH48108 oil filter. Rapped engine and checked for leaks. None found.  
 Termite Right A/P 52413873  
 Changed oil at John Dembski



Phone: (913) 782-0530  
 CRS AMYR171C

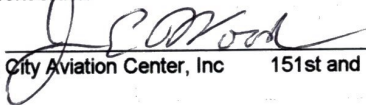
Airframe Log/Repair  
 N297CD  
 S/N 1232

Date: 8-6-03  
 Hobbs Time: 143.0

Work Order: C4329  
 Total Time: 143.0

- Replaced cabin fire extinguisher with a new fire extinguisher p/n: RT-A600.
- Complied with Cirrus Service Bulletin 20-52-02 by Installation of drain holes in cabin doors and baggage door.
- Complied with Cirrus Service Bulletin 20-55-08 by enlargement of drain holes in rudder bottom and elevator tips.
- Complied with Cirrus Service Bulletin 2X-32-06 by installation of countersunk washers on nose landing gear wheel pant.
- Complied with Cirrus Service Bulletin 2X-57-04 Outboard Aileron Hinge Inspection by inspection and found no defects.

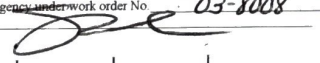
I certify that this repair has been inspected and determined to be in airworthy condition. Pertinent details are on file under the above work order.

Signed  for  
 Kansas City Aviation Center, Inc 151st and Pflumm Road Olathe, Kansas 66062 FAA Repair Station #AMYR171C

**SILVERHAWK AVIATION INC. Lincoln, NE**  
 Date: 10-03-2003 W.O. 03-8008 N297CD Tach: 175.9

Installed new #4 and #6 exhaust rocker cover gasket P/N 655704. Ground ran aircraft and systems op's and leak checked good.

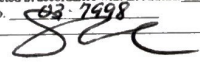
END

The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Administration Regulations and is approved for return to service as airworthy.  
 Pertinent details of the repair are on file at this agency under work order No. 03-8008  
 Date: 10-3-03 Signed   
 Silverhawk Aviation CRS # YQSR759U  
 Lincoln, NE 68524

**SILVERHAWK AVIATION INC. Lincoln, NE**  
 Date: 10-03-2003 W.O. 03-7998 N297CD Tach: 175.9 ACTT: 175.9  
 ETT: 175.9 ETSOH: 175.9 ELT Due: March 2008  
 PTT: 175.9 PTOH: 175.9

Compressions checked as follows: #1 76/80, #2 74/80, #3 77/80, #4 78/80, #5 76/80, #6 78/80. Drained engine oil. Removed and checked oil filter for contaminants. Checked good. Installed new oil filter P/N CH48108. Serviced engine with eight quarts of Aeroshell 65 oil. Completed annual inspection on the engine in accordance with the Cirrus Design SR20 maintenance manual. Ground ran aircraft and systems op's and leak checked good.

END

Tach: 175.9 A/C TT: 175.9  
 I certify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual Inspection per FAR 91.409 PARA. A and was determined to be in an airworthy condition. Pertinent details of the above inspection are on file at this agency under work order No. 03-7998  
 Date: 10-3-03 Signed  for  
 Silverhawk Aviation CRS # YQSR759U  
 Lincoln, NE 68524



|      |            |      |                          |      |  |
|------|------------|------|--------------------------|------|--|
| Date | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|      | Hrs.       | Min. | Hrs.                     | Min. |  |

Brought For

*A*

**SILVERHAWK AVIATION INC. Lincoln, NE**

Date: 10-03-2003 W.O. 03-7998 N297CD Tach: 175.9 ACTT: 175.9

ETT: 175.9 ETSOH: 175.9 ELT Due: March 2008

PTT: 175.9 PTOH: 175.9

Completed annual inspection on the propeller in accordance with the Cirrus Design SR20 maintenance manual. Op's check good.

END

Tach: 175.9 A/C TT: 175.9  
I certify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual Inspection per FAR 91.409 PARA. A and was determined to be in an airworthy condition. Pertinent details of the above inspection are on file at this agency under work order No. 03-7998  
Date: 10-3-03 Signed [Signature] for  
Silverhawk Aviation CRS # YQSR759U  
Lincoln, NE 68524

223.0

*KEAR'S Pilot Shop changed oil*

**SILVERHAWK AVIATION INC. Lincoln, NE**

Date: 11-02-2004 W.O. 04-9287 N297CD Tach: 234.1

ACTT: 234.1 ETT: 234.1 ETSOH: 234.1 PTT: 234.1 PSTOH: 234.1

Completed Annual inspection IAW Cirrus Design Inspection checklist. Drained oil and removed filter, inspected filter for contaminants, none found. Installed new oil filter P/N CH 48108-1 and serviced with 8 Qts. Aeroshell 65. Cleaned, gapped, tested, and rotated spark plugs. Installed new pushrod seals on #2 cylinder intake push rod tube. Compression check as follows: #1 78/80, #2 75/80, #3 78/80, #4 79/80, #5 75/80, #6 78/80. Ground run operational and leak check proved good.

END

Tach/Hr Meter 234.1 Total Time 234.1  
I certify this (aircraft) (engine) (propeller) has been inspected in accordance with a/an ANNUAL inspection as per FAR 91.409 A and was determined to be in an airworthy condition.  
Dated 11-2-04 W.O. 04-9287 Signed [Signature]  
Silverhawk Aviation CRS # YQSR759U  
Lincoln, NE 68524

**Executive Beechcraft inc**

10 Richards Rd. • Kansas City, Missouri 64116 • Phone (816) 842-8484

This constitutes an official maintenance record per FAR 43.9 & 43.11.

**A I R F R A M E** S/N: SR-20

| Reg. No. | Date   | Tach   |
|----------|--------|--------|
| N297CD   | 3/6/05 | 0285.5 |

1. Changed oil and oil filter. Serviced with 8qts Aero Shell 100 (50) wt oil and Champion oil filter CH48108-1. Cut oil filter open and inspected for foreign material, none noted at this time.
2. Ground run and leak checked, no leaks noted at this time.

File name: 51-1711M0

Signature: [Signature]

Cert.No.: ATP 495-70-6648



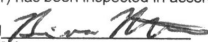
# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

|      |            |      |                          |      |
|------|------------|------|--------------------------|------|
| Date | Total Time |      | Time Since Last Overhaul |      |
|      | Hrs.       | Min. | Hrs.                     | Min. |

|     |      |          |  |          |       |       |          |
|-----|------|----------|--|----------|-------|-------|----------|
| Bro | SO#  | 06-10787 | <b>SILVERHAWK JET CENTER</b>           |          |       | DATE  | 03/08/06 |
|     | REG. | N297CD   | <b>Lincoln Municipal Airport [LNK]</b> |          |       | ACTT  | 334.8    |
|     | MAKE | TCM      | MODEL                                  | IO360ES6 | ETT   | 334.8 | 334.8    |
|     |      |          | SERIAL NO.                             | 357535   | ETSOH | 334.8 |          |

- Completed with an Annual inspection IAW Cirrus Design SR20 Maintenance Manual checklist.
  - Compressions (#1 70/80, #2 68/80, #3 72/80, #4 70/80, #5 68/80, #6 70/80).
  - Drained engine oil. Removed, opened, and inspected oil filter. No defects noted.
  - Installed new oil filter P/N CH48108-1 and serviced engine with 8qts. Aeroshell 100 oil.
  - Removed, cleaned, inspected, rotated, and reinstalled sparkplugs.
  - Performed leak check and performance ground runs. No defects noted.
- Installed new #5 upper spark plug P/N RHM38E.
- Installed new oil cooler gasket P/N 654117.
- Installed new oil sump quick drain P/N S6250.

I certify this (aircraft) (engine) (propeller) has been inspected in accordance with a/an Annual inspection as per FAR 91.409 (a)(1) and was determined to be in an airworthy condition.  
 Dated 03/08/06 W.O. 06-10787 Signed   
 Silverhawk Jet Center CRS # YQSR759U  
 Lincoln, NE 68524

7-17-2007


Eng TT: 397.1

Hobbs: 397.1

N297CD Engine Log

Completed an Annual inspection in accordance with Cirrus Design AMM Chapter 5-20 Scheduled Maintenance Checks. Compressions are 1-74/80 2-70/80 3-73/80 4-77/80 5-72/80 6-74/80. Adjusted the idle mixture. Reset the L/H magneto timing to 24 degrees BTDC. Tightened the oil cooler snubber. Drained the oil. Removed the filter and cut open for inspection. No metal noted. Installed new filter and safety. Serviced the engine with 8 qts. Acrosshell 100. Washed down the engine and performed ground run. No leaks noted.

I certify that this engine has been inspected in accordance with an Annual Inspection and has been determined to be in airworthy condition. See W.O. 19826 for details.

  
 Anthony D. Stanton  
 Executive Beechcraft Inc.  
 280 Gardner Drive  
 New Century, Kansas 66031  
 CRS YEBR071L

### STRATUS AVIATION MAINTENANCE

Midwest National Air Center 13106 Rhodus Road Excelsior Springs MO 64024  
 This constitutes an official maintenance record per 14 CFR 43.9 & 43.11.


#### ENGINE

| Reg. No. | Date     | Hr Meter | ENG TT |
|----------|----------|----------|--------|
| N297CD   | 9/4/2007 | 408.6    | 408.6  |

Installed new starter p/n C24ST3 s/n 4C3-310715 from Sky-Tec Inc.

File name: 2007-9M60

Inspector signature A&P 3201708

  
 Richard E. Anderson

STRATUS AVIATION MAINTENANCE

Midwest National Air Center 13106 Rhodus Road Excelsior Springs MO 64024  
 This constitutes an official maintenance record per 14 CFR 43.9 & 43.11.

Special Inspections,

ENGINE

| Reg. No. | Date      | Hr Meter |
|----------|-----------|----------|
| N297CD   | 9/21/2007 | 410.6    |

- 1) Removed starter s/n 4C3-310715 and installed new p/n C24ST3 s/n 4C3-330706.

File name: 2007-9M70

Inspector signature A&P 3201708

*Richard E. Anderson*

Richard E. Anderson

STRATUS AVIATION MAINTENANCE

Midwest National Air Center 13106 Rhodus Road Excelsior Springs MO 64024  
 This constitutes an official maintenance record per FAR 43.9 & 43.11.

ENGINE S/N: 357535

| Reg. No. | Date      | Tach | ENG TT |
|----------|-----------|------|--------|
| N297CD   | 11/1/2008 | 442  | 442    |

- 1) Completed check :
  - a. #1 78/80 #2 75/80 #3 76/80 #4 77/80 #5 74/80 #6 76/80.
- 2) Changed oil and filter serviced with AeroShell W10 AD and a CH48108-1 filter.
- 3) Cleaned and gaped spark plugs, replaced one spark plug.
- 4) Adjusted the magneto to engine timing on both mags.
- 5) Completed 300-hour fuel nozzles cleaning and inspection.

I certify that this ENGINE has been inspected in accordance with an "ANNUAL" inspection and was determined to be in airworthy condition. File name: 2008 - 10 - 235

Inspector Signature

*Richard E. Anderson*

A&P 3201708 IA

Richard E. Anderson

3-19-2010 Hobbs hours 472.0 hrs TTE 472.0 hrs

Compression checked #1 <sup>80</sup>/<sub>76</sub> #2 <sup>80</sup>/<sub>79</sub> #3 <sup>80</sup>/<sub>75</sub> #4 <sup>80</sup>/<sub>78</sub> #5 <sup>80</sup>/<sub>79</sub> #6 <sup>80</sup>/<sub>79</sub>

Cleaned spark plugs & re installed with new gaskets

Replaced tach drive shaft PN 642121-1. Lubricated

prop AD<sup>3</sup> CK<sup>2</sup> thru 2010-5

I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition at this time and date

*Charles J. Wirt IA A&P 1714637*

# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

| Date   | Total Time            |      | Time Since Last Overhaul |      |
|--|-----------------------|------|--------------------------|------|
|  | Hrs.                  | Min. | Hrs.                     | Min. |
| Brought Forward →  |                       |      |                          |      |
| 5-16-2011  | Hobbs shows 507.4     |      | TTE 507.4                |      |
| Compression checked #1 $\frac{80}{79}$ #2 $\frac{80}{78}$ #3 $\frac{80}{79}$ #4 $\frac{80}{79}$ #5 $\frac{80}{79}$ #6 $\frac{80}{79}$                        |                       |      |                          |      |
| Changed engine oil and filter. Amsoil 100W oil and Champion CH481081 filter installed. Eng run no leaks AD's CK'd thru 2011-10                               |                       |      |                          |      |
| I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition at this time and date. |                       |      |                          |      |
| Charles J Wirt IA A+P1714637   |                       |      |                          |      |
| 3-26-2012  | Hobbs shows 536.4     |      |                          |      |
| Replaced air filter element PN BA-24. Replaced starter with new Sky Tec PN C24 ST 5 SN 405-001223. FAA PMA NO P008523W supplement #6 eligibility list.       |                       |      |                          |      |
| Charles J Wirt A+P1714637  |                       |      |                          |      |
| 7-9-2012   | Hobbs shows 544.2 hrs |      |                          |      |
| Compression checked #1 $\frac{80}{79}$ #2 $\frac{80}{79}$ #3 $\frac{80}{79}$ #4 $\frac{80}{79}$ #5 $\frac{80}{79}$ #6 $\frac{80}{79}$                        |                       |      |                          |      |
| AD2008-11-18 CW by press check and visual insp per SB2X-78-07 R1. No defects. Next due at 644.2 hrs  |                       |      |                          |      |
| Replaced spark plugs with new Champion RHM 38E spark plugs. AD's CK'd thru 2012-12   |                       |      |                          |      |
| I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition at this time and date. |                       |      |                          |      |
| Charles J Wirt IA A+P1714637   |                       |      |                          |      |
| 12-8-2012  | Hobbs 568.8 hrs       |      |                          |      |
| Change oil + filter Phillips 20/50 and Champion CH481081 filter  |                       |      |                          |      |
| Charles J Wirt A+P1714637  |                       |      |                          |      |



# Engine Service and Maintenance Record

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| Date | Total Time |      | Time Since Last Overhaul |      |
|------|------------|------|--------------------------|------|
|      | Hrs.       | Min. | Hrs.                     | Min. |

Brought Forward →

4-12-2013 Hobbs 597.1 hrs

Replaced ~~stock~~ drive seal. Eng run no leaks. Alternator repaired by Aircraft Accessory Inc

Charles J Wirt ATP 1714637

8-20-2013 Hobbs shows 605.4 hrs

Compression checked #1<sup>80</sup> #2<sup>80</sup> #3<sup>80</sup> #4<sup>80</sup> #5<sup>80</sup> #6<sup>80</sup>

Rotated spark plugs. Chang engine oil and filter. Phillips 20/50 oil and Champion CH48108-1 filter installed

I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition at this time and date

Charles J Wirt IA ATP 1714637

4-12-2014 Hobbs shows 648.6 hrs

Changed oil and filter Phillips 20/50 oil and Champion CH48108-1 filter installed. Eng run no leaks

Charles J Wirt ATP 1714637

4-17-2014 Hobbs shows 648.6 hrs

Replaced starter with remanufactured unit from Sky Tec Partners Inc (original manufacturer) w/ # 14040306 Op CK'd normal

Charles J Wirt ATP 1714637

9-18-2014 Hobbs shows 674.8 hrs

Compression checked #1<sup>80</sup>/<sub>78</sub> #2<sup>80</sup>/<sub>78</sub> #3<sup>80</sup>/<sub>79</sub> #4<sup>80</sup>/<sub>79</sub> #5<sup>80</sup>/<sub>79</sub> #6<sup>80</sup>/<sub>78</sub>

AD2008-11-18 CW by precheck and visual insp per SB28-78-07 R1. No defects. Next due at 774.8 hrs. Spark plugs cleaned / tested and re installed with new gaskets. Replaced hose support clamp above #1 cyl spark plug

Charles J Wirt ATP 1714637

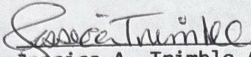
# Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

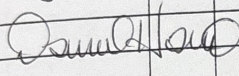
| Date   | Total Time            |   | Time Since Last Overhaul |      |
|--|-----------------------|---|--------------------------|------|
|  | Hrs.                  | Min.  | Hrs.                     | Min. |
| Brought Forward →  |                       |   |                          |      |
| 9-18-2014  | Hobbs shows 674.8 hrs |   |                          |      |
| I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition at this time and date  |                       |   |                          |      |
| Charles J Wirt IA, A&P 1714637   |                       |   |                          |      |
| 1-26-2015  | Hobbs shows 700.0 hrs |   |                          |      |
| Changed eng oil and filter. Philips 20/50 oil and Champion CH48108-1 filter. Eng run no leaks  |                       |   |                          |      |
| Charles J Wirt A&P 1714637   |                       |   |                          |      |
| 12-1-2015  | Hobbs shows 750.8 hrs |   |                          |      |
| Compression checked #1 $\frac{80}{78}$ #2 $\frac{80}{77}$ #3 $\frac{80}{78}$ #4 $\frac{80}{77}$ #5 $\frac{80}{78}$ #6 $\frac{80}{78}$  |                       |   |                          |      |
| Rotated spark plugs. AD 2008-11-18 CW per SB 2X-78-07R1 no defects. Nut due <del>at 800.8 hrs</del> <sup>800.8</sup> at 850.8 hrs Changed eng oil and filter. Philips 20/50 oil and Champion CH48108-1 filter installed.   |                       |   |                          |      |
| I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition at this time and date  |                       |   |                          |      |
| Charles J Wirt IA A&P 1714637  |                       |   |                          |      |
| 6-1-2016   | 800.4                 | Higginsville changed engine oil & filter had engine oil analysed. |                          |      |
| 3-7-2017   | N297CD                | Tack 858.27   | Engine                   |      |
| Oil and filter change. Drained oil, took sample, removed oil filter and cut open, checked for contaminant adds, none found. Installed new CH48108 oil filter, torque and safety. Serviced with 7 qt. Phillips XC20W50. checked for leaks & reinstalled bottem panel. |                       |   |                          |      |
| Randal B Grant   |                       |   |                          |      |
| Randal B. Grant, AP1741712, Higginsville, Mo. 64047  |                       |   |                          |      |

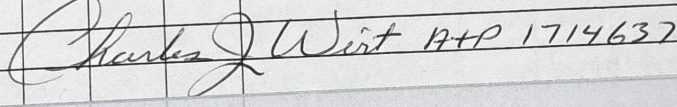




| Date            | Total Time  |        | Time Since Last Overhaul |        | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|-----------------|---|--------|--------------------------|--------|--|
|                 | Hrs.  | Min.   | Hrs.                     | Min.   |  |
| Brought Forward | 8-31-2017   | N297CD | Tack 943.1               | Engine | Removed old vaccum pump and installed a new Rapco 215CC vaccum pump with new gasket & torque.  |
|                 | <br>Jessica A. Trimble AP3846493, Warrensburg, Mo. 64093 |        |                          |        |  |

10/8/2017 Hobbs 946.7  
 changed engine oil/ Phillips 80/50 CHAMPION CH48108-1  
 engine run - no leaks

 3275537 owner

10-8-2017 Hobbs 961.2 hrs  
 Replaced alternator with unit overhauled by  
 Aircraft Accessories Repair sta # CRS#RV3R829L  
 WO# 5017-2446 SN H-L051573 OP'S CK normal  
 A+P 1714637

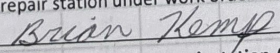


Charles B Wheeler Downtown Airport  
 701 NW Lou Holland Dr. Kansas City MO 64116

|          |            |                 |
|----------|------------|-----------------|
| ENGINE   | S/N 357535 | Model IO-360-ES |
| REG. NO. | DATE:      | HOBBS           |
| N297CD   | 2/6/2018   | 990.8           |

Removed top engine cowling and forward, left engine baffle assembly. Removed broken alternator mount assembly. Removed engine through bolt that ties #6 cylinder to alternator bracket. Installed new through bolt, PN: 652420-9-80, 2 new O-rings, PN: 630979-9, new alternator mount bracket, PN: 657046, new alternator brace, PN: 654646, and new bolt, PN: MS90726-61. Reinstalled alternator using new shim, PN: 658616-3. Reinstalled front, left engine baffle, and top cowl. Performed ground run, operational check was satisfactory. REF: Continental Motors IO-360 M&OH Manual 17-2.2.2, 10-5.3 & 5.4, Continental Motors SPMM, Appendix B, and Cirrus SR20 AMM, 24-30. REF: Ted Rhodes (trhodes@cmg.aero), Continental Motors IO 360 Series Engine Maintenance and Overhaul Manual, 17-2.2.2 and 10-5.4.

This article was repaired in accordance with the current regulation of the Federal Aviation Administration. It was found to be airworthy with respect to the work performed and is approved for return to service. Details are on file at this repair station under work order: **S94-18-00489**.

Inspectors Signature:  Brian Kemp  
 Signature TechnicAir - KMKC FAA certified repair station AKGR142C



# Engine Service and Maintenance Record

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|-----------------|------------|------|--------------------------|------|
|                 | Hrs.       | Min. | Hrs.                     | Min. |
| Brought Forward | →          |      |                          |      |

ENGINE MODEL:  
IO360ES6  
ENGINE S/N: 357535  
REG. NO. N297CD  
WORK ORDER: 0291



**Mistwood Aviation Services, LLC.**

2404 Northline Ind. Blvd.  
Maryland Hts., MO 63043  
Phone: 314-991-6000

DATE: 27 March, 2018  
A/C TSN: 992.7  
ENG TT: 992.7  
TACH: 992.7

### Engine Entries

Performed Continental Motors 100 Hour/Annual Inspection IAW Cirrus SR20 Aircraft Maintenance Manual part number 12137-001 Reissue B dated 01/2010, Rev B8 19 Sep 2017 and Continental Motors M-7 and M-0.  
Performed engine compression check results as follows: #1 70/80, #2 68/80, #3 74/80, #4 68/80, #5 74/80, #6 70/80. Master orifice 42/80.  
Drained oil, removed filter and took oil sample. Installed new Tempest oil filter AA48108-2 and serviced engine with 7 quarts Phillips XC20W50.  
Cleaned, gapped, tested and inspected spark plugs, installed with new M-674 gaskets and torqued.  
Replaced engine induction air filter, part number BA24 per Annual requirement.  
Installed engine driven fuel pump after overhaul complied with by Quality Aircraft Accessories, their work order 035994 see 8130-3 dated 22 Feb 2018 for details. Performed Continental SID 97-3G Continuous Fuel Flow Adjustment.  
Replaced the following rocker box cover gaskets, part number SA632310, #1, #2, #3, #5, #6 exhaust and #3, #5 and #6 intake IAW Continental M-7 and M-0 manuals.  
Installed engine baffle fastener P/N 641346.  
Complied with Cirrus Mandatory Service Bulletin 2X-78-07R1 SR20 Heat Exchanger Inspection by installation of new heat exchanger assembly, P/N 70201-001 IAW Cirrus SR20 AMM 78-20.  
Installed left magneto, part number 6314 IAW Continental M-7 and M-0 manuals after 500 Hour Inspection complied with by Aircraft Magneto Service, their work order 16670 see Servicable part tag dated 23 Feb 2018 for details.  
Installed right magneto, part number 6314 IAW Continental M-7 and M-0 manuals after 500 Hour Inspection complied with by Aircraft Magneto Service, their work order 16671 see Servicable part tag dated 23 Feb 2018 for details.  
Replaced oil pressure regulator housing gasket, part number MS35769-18 IAW Continental Motors M-7 and M-0.

I certify this engine has been inspected in accordance with a 100 Hour / Annual Inspection meeting the intent of 14 CFR 91.409 and Part 43 Appendix D and has been determined to be in an airworthy condition and is approved for return to service. Pertinent details of the inspection/repairs are on file at Mistwood Aviation Services under the above noted work order.

DATE: 27 March, 2018

SIGNED:

John Merriman, IA: 2787167

Work Order: 0291

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8-5-2018 1049.3

changed engine oil with Phillips 20w/50 - 7 quarts and Champion Tempest 48108-2 - engine run no oil leaks (owner) 3275537 - owner cut oil filter & inspected for metal - none found oil sample sent to Blackstone

10-5-2018 1078.9 hours

changed engine oil with 7 quarts phillips 20w/50 + changed oil filter Tempest 48108 2 ran engine and checked for leaks - none found. Cut oil filter and checked for metal - none found. Sent oil sample to Blackstone for testing. (owner) 3275537

Date: 11/22/18 N297CD S/N 1232 Total Time Hrs: 1113.9  
Power Plant Make: Continental IO360E5

- All work completed IAW the current Cirrus SR20 service manual
- Inspected quick drain for any damage, none noted.
- Removed oil and replaced with 7 quarts of Phillips 20w 50 and 1 pint Camguard Aviation oil additive.
- R&R oil filter with Tempest CH48108-2, torqued and safety with 0.32 safety wire
- Obtained Blackstone oil sample hot, sent in.
- Test ran engine, leak check noted no defects at this time

cut filter and inspected for metal - none found

Daniel Haug Pilot # 3275537

| Date | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|------|------------|------|--------------------------|------|--|
|      | Hrs.       | Min. | Hrs.                     | Min. |  |

Brought Forward →

Date: 2-3-2019 N297CD S/N 1232 Total Time Hobbs 1146.7  
Power Plant Make: Continental IO360ES

- All work completed IAW the current Cirrus SR20 service manual
- Inspected quick drain for any damage, none noted.
- Removed oil and replaced with 7 quarts of Phillips 20w 50 and 1 pint Camguard Aviation oil additive.
- R&R oil filter with Tempest CH48108-2, torqued and safety with 0.32 safety wire
- Obtained Blackstone oil sample hot, sent in.
- Test ran engine, leak check noted no defects at this time

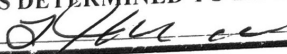
Daniel Haug  Pilot # 3275537

**ARAPAHOE AERO**

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
 N297CD Continental IO-360-ES(6)B S/N: 357535 Total Time: 1166.0  
 13 April 2019 Hobbs Meter: 1166.0


**100 Hour Inspection for Annual** completed this date using the Cirrus SR20 Inspection Form as a guide. Compression test: #1) 72/80, #2) 68/80, #3) 68/80, #4) 70/80, #5) 72/80, #6) 72/80. M.O.-46. Changed engine oil and filter (Phillips X/C 20W50). Cut oil filter open and inspected, no contaminants noted. Blackstone oil sample taken and submitted. Cleaned fuel injector nozzles. Inspected fuel injection system for component condition and security. Leak checked fuel system; no defects noted. Cleaned, gapped, tested, and rotated spark plugs. Installed test gauge and completed engine fuel setup in reference to CMI M-O. Adjusted low end fuel pressure and idle speed as needed. Fabricated and installed support on forward right baffle assembly. Disassembled lower lead of #5 and #6 spark plugs, adjusted shielding and crimped. Reassembled lead and reinstalled spark plugs. Checked and adjusted timing of magnetos to engine. Installed new induction air filter. Completed conformity inspection of previously installed battery charger wiring harness. Found to be installed using acceptable practices. Tightened alternator belt and bolt, safetied adjustment bolt. Removed RPM indicator, installed washer to prevent movement and reinstalled and safetied. Installed new oil cooler support shoe P/N: 632983. Installed two new rivets on oil cooler seal retainer. Installed new inboard bolt at forward right baffle. Fabricated and installed side brace for right baffle. Complied with **300 Hour Continental Fuel Injection Nozzle Servicing** by removing injectors, inspecting and cleaning, no defects noted. **Next service due Flight Hobbs: 1466.0.** Complied with **Cirrus AD 2008-11-18 (Exhaust System Leaks)** effective 07-07-2008, by visual inspection and pressure testing of exhaust heat exchanger as outlined in Cirrus SB 2X-78-07 R1, no defects noted. **Next exhaust heat exchanger inspection due at Hobbs Time: 1266.0.** AD's checked through Biweekly 2019-07. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**

L. John Wells A&P 3221132 w/o 39983



Date: 6/20/19 N297CD S/N 1232 Total Time Hobbs 1194.7  
Power Plant Make: Continental IO360ES

- All work completed IAW the current Cirrus SR20 service manual
- Inspected quick drain for any damage, none noted.
- Removed oil and replaced with 7 quarts of Phillips 20w 50 and 1 pint Camguard Aviation oil additive.
- R&R oil filter with Tempest CH48108-2, torqued and safety with 0.32 safety wire
- Obtained Blackstone oil sample hot, sent in.
- Test ran engine, leak check noted no defects at this time

Daniel Haug  Pilot # 3275537



| Date | Total Time |      | Time Since Last Overhaul |      | <b>Engine Service and Maintenance Record</b><br>Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|------|------------|------|--------------------------|------|--|
|      | Hrs.       | Min. | Hrs.                     | Min. |  |

Brought Forward →

Date: 9-25-19 N297CD S/N 1232 Total Time Hobbs 1224.1  
Power Plant Make: Continental IO360ES

- All work completed IAW the current Cirrus SR20 service manual
- Inspected quick drain for any damage, none noted.
- Removed oil and replaced with 7 quarts of Phillips 20w 50 and <sup>1/2</sup> pint Camguard Aviation oil additive.
- R&R oil filter with Tempest CH48108-2, torqued and safety with 0.32 safety wire
- Obtained Blackstone oil sample hot, sent in.
- Test ran engine, leak check noted no defects at this time

Daniel Haug [Signature] Pilot # 3275537

Date: 11-25-19 N297CD S/N 1232 Total Time Hobbs 1255.3  
Power Plant Make: Continental IO360ES

- All work completed IAW the current Cirrus SR20 service manual
- Inspected quick drain for any damage, none noted.
- Removed oil and replaced with 6 quarts of Phillips 20w 50 and <sup>1/2</sup> pint Camguard Aviation oil additive.
- R&R oil filter with Tempest CH48108-2, torqued and safety with 0.32 safety wire
- Obtained Blackstone oil sample hot, sent in.
- Test ran engine, leak check noted no defects at this time

Daniel Haug [Signature] Pilot # 3275537

Date: 1-28-2020 N297CD S/N 1232 Total Time Hobbs 1288.1  
Power Plant Make: Continental IO360ES

- All work completed IAW the current Cirrus SR20 service manual
- Inspected quick drain for any damage, none noted.
- Removed oil and replaced with 6 quarts of Phillips 20w 50 and <sup>1/2</sup> pint Camguard Aviation oil additive.
- R&R oil filter with Tempest CH48108-2, torqued and safety with 0.32 safety wire
- Obtained Blackstone oil sample hot, sent in.
- Test ran engine, leak check noted no defects at this time

Daniel Haug [Signature] Pilot # 3275537

**ARAPAHOE AERO**

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
**N297CD Continental IO-360-ES(6)B S/N: 357535 Total Time: 1306.5**  
**21 May 2020 Hobbs Meter: 1306.5**

**100 Hour Inspection for Annual** completed this date using the Cirrus SR20 Inspection Form as a guide. Compression test: #1) 72/80, #2) 70/80, #3) 72/80, #4) 74/80, #5) 73/80, #6) 75/80. M.O.-48. No oil or filter change this inspection. Completed Borescope inspection of cylinders. Corrosion noted in all bores. Some crosshatch still evident. No scoring noted. No pooling of oil. Piston domes found to be damp. No signs of detonation noted. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security. Leak checked fuel system; no defects noted. Installed new set of (12) spark plugs P/N: RHM38E. Installed new induction air filter. Tightened nut on propeller governor control rod end and installed new cotter pin.

(Continued) (Page 1 of 2)





