

# ENGINE LOG BOOK



**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE FUEL IS PROHIBITED**



**Continental Motors, Inc.**

Production Certificate 508

Printed: 9/18/2012

Test Date: 9/17/2012

This engine model I0360ES25B , serial number 1007141 was manufactured by 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 Continental Motors Service Bulletins.

A handwritten signature in black ink, appearing to read 'Jack Lane', is written over a horizontal line.

| Date | Total Time |     | Time Since Last Overhaul |     | <b>Engine Service and Maintenance Record</b><br>Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|------|------------|-----|--------------------------|-----|---|
|      | Hours      | Min | Hours                    | Min |   |
|      |            |     |                          |     |   |



4510 Airport Rd.  
Cincinnati OH 45226  
(513) 321-1200



**N681UC Engine Eng. SN 1007141 Date: <sup>12/19</sup>~~7/17~~2012 Flight Hours: 23.2 Hobbs: 30.4 TTSN: 23.2**

Accomplished CMX Cirrus maintenance 25 hour inspection per Cirrus AMM 5-20 pg. 3-22. The following work was accomplished at this time:

1. Changed engine oil. Serviced oil with 8 qts of 15w-50wt Aeroshell.
2. Oil sample was taken for analysis by Aviation Oil Analysis.
3. Installed new oil filter pn# AA48108-2.
4. Inspected gascolator.
5. Lubricated per lubrication chart.
6. Engine compressions checked. 1) 76 3)78 5)76 2)77 4)38 6)76 /80psi. Master Orifice: 42psi
7. Number 4 cylinder compression low. Found leakage past exhaust valve. Installed new cylinder assembly p/n 658190A3 s/n AC12JA878 per TCM Maintenance manual X30617 rev April 2011 for Permold IO-360 series engine. New piston rings installed on piston. All new gaskets and seals were used. Engine ground run satisfactory. Per TCM SB M89-7R1.
8. Performed fuel pressure functional inspection per TCM SID 97-3E using ACM-20 Porta-Test unit.
9. Performed post maintenance engine run-up and leak check. No leaks noted. Operational checks good.

Greg Herrmann 4069015631A



4510 Airport Rd.  
Cincinnati OH 45226  
(513) 321-1200



**N681UC Engine Eng. SN 1007141 Date: 5/14/2013 Flight Hours: 38.1 Hobbs: 48.8 TTSN: 38.1**

Accomplished CMX Cirrus maintenance 50 hour inspection per Cirrus AMM 5-20 pg. 3-22. The following work was accomplished at this time:

1. Changed engine oil. Serviced oil with 8 qts of 15w-50wt Aeroshell.
2. Oil sample was taken for analysis by Aviation Oil Analysis.
3. Installed new oil filter pn# AA48108-2.
4. Lubricated per lubrication chart.
5. Engine compressions checked. 1) 78 3)77 5)77 2)77 4)77 6)76 /80psi. Master Orifice: 42psi
5. Performed post maintenance engine run-up and leak check. No leaks noted. Operational checks good.

Greg Herrmann 406901563IA

ENGINE MODEL  
ENGINE S/N  
REC. NO. N681UC  
WORK ORDER  
29387-06-2013



**Commander Aero, Inc.**

Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 638-891-5580

DATE: 6/20/2013  
AV. TSN  
FLIGHT  
FLIGHT TIME: 39.9

**Engine Entries**

(1) Installed new oil pressure transducer, removed oil filter and inspected element checked good. Installed new champion oil filter run engine and ops and leak checked good.

**Maintenance Release**

The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FAR's rules of the Federal Aviation Regulations and was found Airworthy for return to service with respect to the work performed. Pertinent details of the repair are on file at this repair station under Work Order No. 29387-06-2013.

DATE: 6/20/2013

SIGNED:

Minzler, AMM  
Certified Repair Station No. GA5R-876M

Work Order: 29387-06-2013

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| Date              | Hours |     | Min   |     | Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins |
|-------------------|-------|-----|-------|-----|---|
|                   | Hours | Min | Hours | Min |   |
| Carried forward → |       |     |       |     |   |

ENGINE MODEL  
TURBOCHARGER  
ENGINE SN: 1007141  
REC NO: N681UC  
WORK ORDER  
29511-10-2013



**Commander Aero, Inc.**  
Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miaminsburg, Ohio 45342 USA  
Phone: 888-881-5580

DATE: 10/22/2013  
AV: 141971  
EPR: 11.66  
FLIGHTTIME: 78

**Engine Entries**

(3) Complied with 100 Hour Engine Inspection.... (5) Checked Compression - 1) 74/80; 2) 76/80; 3) 78/80; 4) 76/80; 5) 78/80; 6) 73/80. ... (6) Changed oil & filter. Serviced with Aeroshell 15W50 Washed down engine ran and leak checked ... (8) Cleaned, gaped, and tested spark plugs.... (9) Installed new air intake filter.... (13) Took oil sample.... (14) Readjusted left and right Exhaust ball joints to five pounds tension.... (18) Re-bonded anti-chafing material on left and right baffling.... (19) Cleaned and leak checked fuel nozzles.... (20) Reset left and right magneto timing to 24 degrees.... (22) Complied with Continental SID97-3E Fuel Flow Injection.

I certify that this aircraft was inspected in accordance with an annual inspection and found to be airworthy. The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations, and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 29511-10-2013.

DATE: 10/22/2013

SIGNED: *[Signature]*  
Hix, Ryan  
Certified Repair Station No. GA5R-876M

Work Order: 29511-10-2013

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IO360ES25B  
ENGINE S/N: 1007141  
REG NO N681UC  
WORK ORDER:  
29636-05-2014



Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 888-881-5580

AVC TSN: 1091  
ENG TT: 90  
FLIGHTTIME: 90

**Engine Entries**

(2) Changed oil & filter. Serviced with Aero shell 15W50 Washed down engine ran and leak checked.... (3) Took oil sample.

**Maintenance Release**

The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service with respect to the work performed. Pertinent details of the repair are on file at this repair station under Work Order No. 29636-05-2014.

DATE: 5/8/2014

SIGNED:

*Alvin Minzler*

Work Order: 29636-05-2014

Minzler, Alvin  
Certified Repair Station No. GA5R-876M

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ENGINE MODEL  
IO360ES25B  
ENGINE S/N: 1007141  
REG NO N681UC  
WORK ORDER:  
29746-09-2014



**Commander Aero, Inc.**

Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 888-881-5580

DATE: 10/20/2014  
AVC TSN: 1377  
ENG TT: 1188  
FLIGHTTIME: 1188

**Engine Entries**

(3) Complied with 100 Hour Engine Inspection.... (5) Changed oil & filter. Serviced with Aeroshell 15W50. Washed down engine ran and leak checked.... (8) Took oil sample.... (9) Checked Compression - 1) 72/80; 2) 74/80; 3) 74/80; 4) 74/80; 5) 74/80; 6) 74/80.... (12) Changed air intake filter.... (13) Cleaned, gaped, and tested spark plugs.... (14) Cleaned fuel nozzles and leak checked.

I certify that this aircraft was inspected in accordance with an annual inspection and found to be airworthy. The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 29746-09-2014.

DATE: 10/20/2014

SIGNED:

*Alvin Minzler*

Work Order: 29746-09-2014

Minzler, Alvin  
Certified Repair Station No. GA5R-876M

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Special Inspections, Modifications and Service Bulletins

ENGINE MODEL:  
IO360ES25B  
ENGINE S/N 1007141  
REG NO N681UC  
WORK ORDER:  
29861-04-2015



**Commander Aero, Inc.**  
Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 888-881-5580

DATE: 4/17/2015  
A/C TSN: 160 1  
ENG TT: 141  
FLIGHTTIME: 141

**Engine Entries**

(2) Changed oil & filter. Serviced with Aeroshell 15W50. Washed down engine ran and leak checked.... (4) Took AOA oil sample.

Maintenance Release

The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service with respect to the work performed. Pertinent details of the repair are on file at this repair station under Work Order No. 29861-04-2015.

DATE: 4/17/2015

SIGNED: *Alvin Minzler*  
Minzler, Alvin  
Certified Repair Station No. GA5R-876M

Work Order: 29861-04-2015

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ENGINE MODEL: IO360ES25B  
ENGINE S/N: 1007141  
REG NO: N681UC  
WORK ORDER: 29874-04-2015



**Commander Aero, Inc.**

Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 888-881-5580

DATE: 5/1/2015  
A/C TSN: 1608  
ENG TT: 1417  
FLIGHTTIME: 1417

**Engine Entries**

(1) Checked Cylinder Compressions - 1) 74/80; 2) 76/80; 3) 74/80; 4) 76/80; 5) 76/80; 6) 76/80, Cleaned fuel Gascolator, Cleaned Fuel Nozzles and Complied with Continental SID97-3E Fuel Flow Injection. Adjusted idle mixture and speed. Performed Engine Run Up. Operational Checked Satisfactory.

I certify that this engine was inspected in accordance with a 100 hour inspection and found to be airworthy. The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 29874-04-2015.

DATE: 5/1/2015

SIGNED:

Work Order: 29874-04-2015

Minzler, Alvin  
Certified Repair Station No. GA5R-876M

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ENGINE MODEL: IO360ES25B  
ENGINE S/N: 1007141  
REG NO: N681UC  
WORK ORDER: 30005-10-2015



**Commander Aero, Inc.**

Repair Station No. GA5R-876M  
10570 Springboro Pike  
Miamisburg, Ohio 45342 USA  
Phone: 888-881-5580

DATE: 11/13/2015  
A/C TSN: 2118  
ENG TT: 1927  
FLIGHTTIME: 1927

**Engine Entries**

(3) Complied with 100 Hour Engine Inspection.... (5) Changed oil & filter. Serviced with Philips X/C 20w50 and Camguard, Washed down engine ran and leak checked.... (6) Took oil sample.... (9) Install new Tempest Spark plugs P/N URHM38E.... (10) Checked Compression - 1) 74/80; 2) 72/80; 3) 74/80; 4) 70/80; 5) 70/80; 6) 72/80.... (11) Adjusted propeller low pitch stop and propeller governor to manufactures specs.... (12) Complied with Continental SID97-3G Fuel Flow Injection.... (14) Installed new air intake filter P/N BA-24.... (20) Clean fuel nozzles and leak checked.... (23) Borescoped engine no discrepancies found.

I certify that this aircraft was inspected in accordance with an annual inspection and found to be airworthy. The aircraft and/or component(s) on N681UC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 30005-10-2015.

DATE: 11/13/2015

SIGNED:

Work Order: 30005-10-2015

Minzler, Alvin  
Certified Repair Station No. GA5R-876M

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Time Since Last  
Overhaul

# Engine Service and Maintenance Record

Hours

Min

Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins



## LOGBOOK ENTRY ENGINE


Name: Randolph Stinger  
W.O.: 9368

A/C: N681UC  
Hobbs Time: 289.3  
Flight Time: 236.1  
AC S/N: 2216

Date: 5/11/16

Ran up engine and drained oil. Took oil sample. Removed and replaced oil filter with new P/N CH48108-1. Refilled engine with 8 quarts of Phillips 20W50 X/C oil. Ran up engine and leak checked, no leaks noted.

With respect to the work performed above, this aircraft is approved for return to service.

Signature: 

A&P 38401436

Lance Drew

FlightLevel Norwood LLC - Maintenance  
209 Access Rd., Norwood, MA 02062