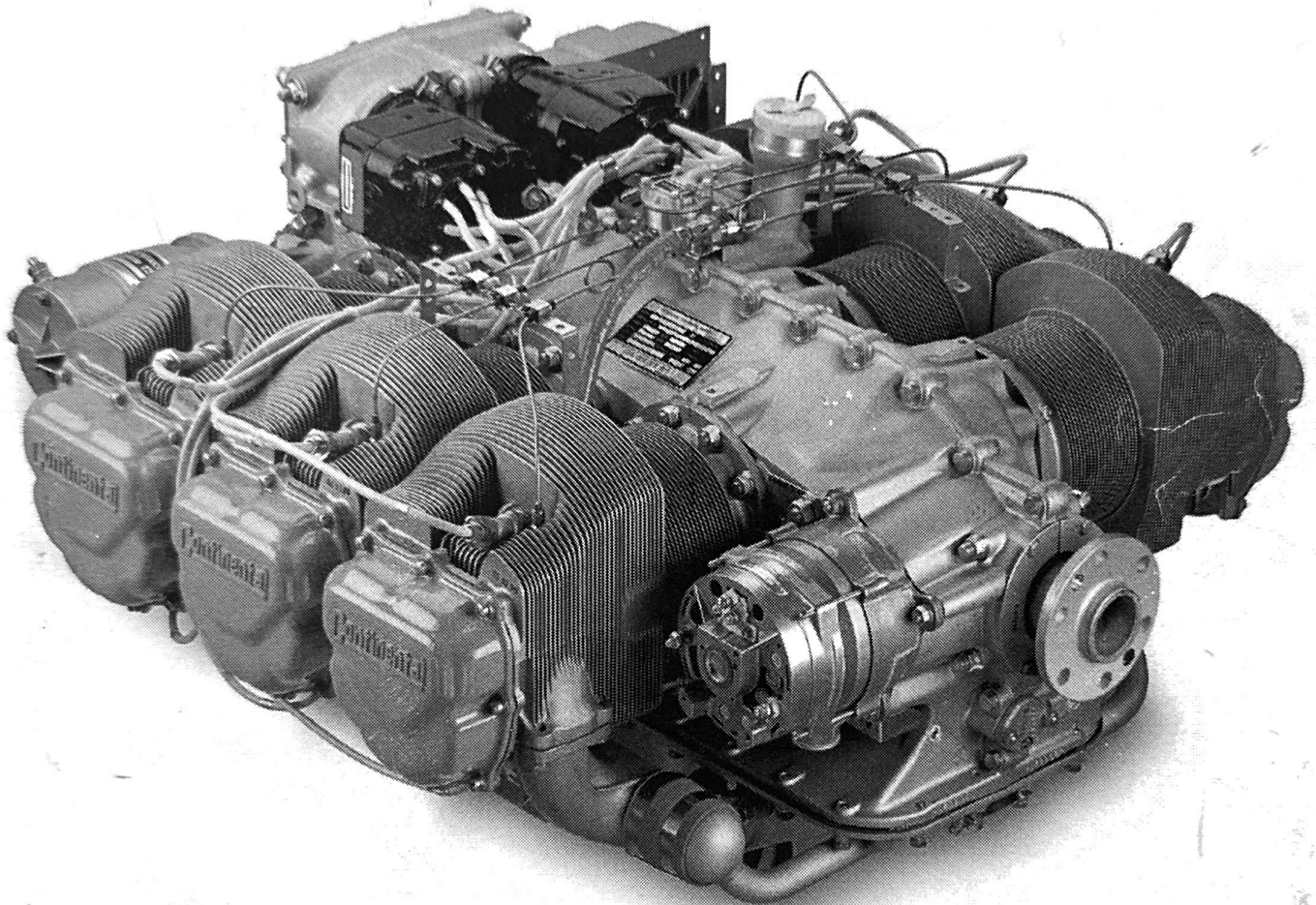


ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

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
2039 Broad Street
Mobile, AL 36615

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



Teledyne Continental Motors, Inc.

A Teledyne Technologies Company

Printed: 05/03/2007

This engine model 10F240B5, Serial No. 400143 was manufactured on 04/30/2007 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.

Indy McLeod 020503

TELEDYNE CONTINENTAL MOTORS

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 503

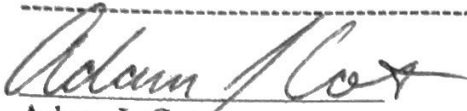
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 07/03/2007

TACH TIME: 25.4 Hrs.
ENGINE TT: 25.4 Hrs.

At this time, the engine oil was drained and the filter was removed, opened, and inspected for contamination - none noted at this time. The engine was serviced with six quarts of Phillips 20w50 X/C oil and one Kelly Aerospace ES48108 oil filter. The engine was washed and run. No defects were noted.

-----END-----


Adam J. Cote
AP 3035886

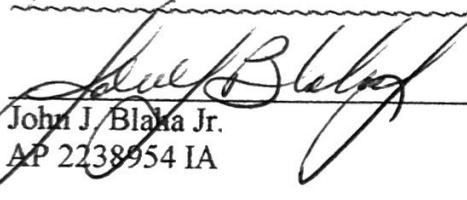
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 08/08/2007

TACH TIME: 35.4 Hrs.
ENGINE TT: 35.4 Hrs.

At this time, the induction tubes were removed, inspected, and reinstalled. The ignition harness was replaced, PN 10-821454-15. The #2 spark plugs were replaced, 2 ea. PN RHM38E; and the #2 fuel injector, SN 0603-116, was replaced with a new injector, PN 655788, SN 0624-039. The right FADEC, PN 657093-1 Rev. D, SN 0639042, was removed and a new FADEC was installed, PN 657093-1 Rev D, SN 0722050. The engine was test run and no defects were noted.

-----END-----


John J. Blaha Jr.
AP 2238954 IA


A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 10/12/2007

TACH TIME: 72.6 Hrs.
ENGINE TT: 72.6 Hrs.

At this time, the engine oil was drained and the filter was removed, opened, and inspected for contamination - none noted at this time. The engine was serviced with six quarts of Aeroshell 15w50 oil and one Champion CH48110-1 oil filter. The engine was washed and run, no leaks noted.

-----END-----


Nelson E. Cadwallader
AP 327504630

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 F

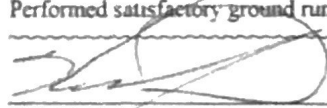
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: Liberty XL-2
"N" # N 583XL
DATE: 03/26/2008

TACH TIME: 132.8 Hrs.
ENGINE TT: 132.8 Hrs.

Complied with TCM SSI07-6 by replacing both FADEC ECU assemblies this time and date.
Removed Left ECU p/n 657093-2, s/n 0705235, and reinstalled p/n 657440-2, s/n 0705226A.
Removed right ECU p/n 657093-1, s/n 0722050, and reinstalled p/n 657440-1, s/n 0714032A.
Performed satisfactory ground run-up and diagnostics test.

END


Kirk J Nelson
AP5050292171A
Teledyne Continental Motors

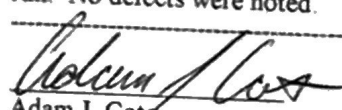
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 04/05/2008

TACH TIME: 133.2 Hrs.
ENGINE TT: 133.2 Hrs.

At this time, the engine oil was drained and the filter was removed, opened, and inspected for contamination - none noted at this time. The engine was serviced with six quarts of Aeroshell 15w50 oil and one Champion CH48108-1oil filter. The engine was washed and run. No defects were noted.

END


Adam J. Cote
AP 3035886

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 07/15/2008

TACH TIME: 174.6 Hrs.
ENGINE TT: 174.6 Hrs.

Record
inspections,

Brought

At this time, the engine was cleaned for inspection. All components were inspected and lubed in accordance with an **ANNUAL INSPECTION** per Liberty and Teledyne Continental Service Manuals. The oil and filter was changed using 6qts Aeroshell 15w50 and one Champion CH48108-1 filter. The old filter was cut open and inspected, no contamination noted. A compression test was performed with the following results: #1- 76/80, #2- 76/80, #3- 79/80, and #4- 78/80. The spark plugs were cleaned, inspected, gapped, tested, and rotated. The ignition leads were cleaned and tested. The induction filter was cleaned and oiled. The engine was ground run, and checked for leaks - no leaks were noted at this time. All AD's were checked thru bi-weekly 2008-13.

END

I certify this engine has been inspected in accordance with a 100-HOUR INSPECTION and was determined to be in an airworthy condition.

Adam J. Cote
AP 3035886

I certify this engine has been inspected in accordance with an **ANNUAL INSPECTION** and was determined to be in an airworthy condition.

John J. Blaha Jr.
AP 2238954

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 10/02/2008

TACH TIME: 195.1 Hrs.
ENGINE TT: 195.1 Hrs.

At this time, the spark plugs were removed, cleaned, tested, and reinstalled. The fuel injectors were removed, cleaned, inspected, and reinstalled. Performed a level 1 maintenance download and failed. The FADEC speed sensor was removed, P/N 655427 S/N 0640122, and a new speed sensor was installed, P/N 655427 S/N 0824031. The low voltage control harness, P/N 655996 was removed and a new low voltage control harness, P/N 655996, S/N 0809048 was installed from Teledyne Continental Motors, W/O# P74347. The right-hand electronic control unit (cylinders 1 & 2) was removed, P/N 657440-1, Rev A., S/N 714032A, and a new electronic control unit, P/N 657440-1, S/N 0819004, was installed from Teledyne Continental Motors, W/O# P74347. The #2 cylinder fuel injector, P/N 655788 was removed and a new fuel injector, P/N 655788, S/N 0816008, was installed from Teledyne Continental Motors, W/O# P74347. Ground ran and ops checked normal. A data download was performed by Teledyne technical representative.

END

John J. Blaha, Jr.
AP 2238954

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 Forw

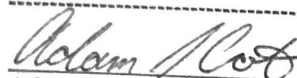
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 02/02/2009

TACH TIME: 220.1 Hrs.
ENGINE TT: 220.1 Hrs.

At this time, the engine oil was drained and the filter was removed, opened, and inspected for contamination - none noted at this time. The engine was serviced with six quarts of Aeroshell 15w50 oil and one Champion CH48108-1 oil filter. The engine was washed and run. No defects were noted.

-----END-----


Adam J. Cote
AP 3035886

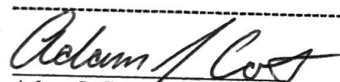
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 06/20/2009

TACH TIME: 252.3 Hrs.
ENGINE TT: 252.3 Hrs.

At this time, the throttle position switch was replaced, P/N 657126. The inline fuel filter was cleaned, inspected, and installed using a new o-ring, P/N AS3578-020. The fuel distributor screen was cleaned, inspected, and installed using a new gasket, P/N 656077-3, and a new o-ring, P/N 656077-2. Ops check ok.

-----END-----


Adam J. Cote
AP 3035886

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

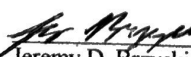
TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 08/03/2009

TACH TIME: 271.1 Hrs.
ENGINE TT: 271.1 Hrs.


At this time, the engine was cleaned for inspection. All components were inspected and lubed in accordance with an **ANNUAL INSPECTION** per Liberty and Teledyne Continental Service Manuals. The oil and filter was changed using 6qts Aeroshell 15w50 and one Champion CH48108-1 filter. The old filter was cut open and inspected, no contamination noted. A compression test was performed with the following results: #1- 76/80, #2- 70/80, #3- 74/80, and #4- 75/80. The spark plugs were cleaned, inspected, gapped, tested, and rotated. The ignition leads were cleaned and tested. The oil pressure relief valve was removed, cleaned, and reinstalled with a new seal ring. The rocker box cover screws were tightened. The fuel injectors were removed, cleaned, and reinstalled. The engine was ground run, and checked for leaks - no leaks were noted at this time. All AD's were checked thru bi-weekly 2009-15.

-----END-----

I certify this engine has been inspected in accordance with a 100-HOUR INSPECTION and was determined to be in an airworthy condition.


Jeremy D. Brzycki
AP 2773579

I certify this engine has been inspected in accordance with an **ANNUAL INSPECTION** and was determined to be in an airworthy condition.


John J. Blaha Jr.
AP 2238954

Date

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

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ctions,

Brought Fo

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 11/09/2009

TACH TIME: 294 8 Hrs.
ENGINE TT: 294 8 Hrs.

At this time, Performed a level 1 maintenance download and failed. Found and repaired wiring to the MAP sensor. Ground ran and ops checked normal. A data download was performed and passed.

END

Adam J. Cote
Adam J. Cote
AP 3035886

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: Liberty XL-2
"N" #: N 583XL
DATE: 03/10/2010

TACH TIME: 304 4 Hrs.
ENGINE TT: 304 4 Hrs.

At this time, a Level 1 Maintenance Download was performed and failed. The FADEC speed sensor was removed, P/N 655427 S/N 0824031, and a new speed sensor was installed, P/N 655427 S/N 080465. The engine oil was drained and the filter was removed, opened, and inspected for contamination - no contamination in filter, gear tooth found in engine oil sump. The starter was removed, P/N BC320-1 S/N 03078700S, and replaced with new, P/N BC320-1 S/N 01104658S. The crankshaft gear was removed and replaced with new, P/N 626762, using new bolts, 4ea P/N 22532. The camshaft gear bolts were replaced with new, 4ea P/N 22534. All associated gaskets were replaced as needed. The engine was serviced with six quarts of Aeroshell 15w50 oil and one Champion CH48108-1 oil filter. The engine was washed and run. No defects were noted. A Post Maintenance Level 1 data download was performed and passed.

END

Adam J. Cote
Adam J. Cote
AP 3035886

22 APR 10

316

-

-

-

Adj. fuel pressure I/A/W TCM M.22
MM. Performed Level 1 run; with a result of
Pass. Engine is OK for return to service.

AP3011468

END

3 Tom Lambrecht Drive
Romeoville IL 60446
Ph: (866)606-5327
Fax: (888)475-7538



WindWalker
AVIATION SERVICES

ENGINE
REG#: N583XL
IOF240B5 S/N: 400143
TACH: 348.3

Accomplished The Following:

- Complied with an Annual Inspection per CFR 43 Appendix D and using the Liberty XL-2 & TCM Service Manuals as a reference.
- Compression Check: #1- 74/80, #2- 64/80, #3- 74/80, #4- 74/80 /80.
- Drained oil, inspected filter, installed new CH48108-1 filter and serviced engine with 6 qts AeroShell 15W50 oil. Ground run leak checks good.

I CERTIFY THAT THIS AIRCRAFT / ENGINE / PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION, AS PER PART 43 APPENDIX D, AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. NO OUTSTANDING AD NOTES AT THIS TIME. DETAILS ARE ON FILE AT WINDWALKER AVIATION SERVICES LLC FOR THE WORK LISTED.

Signed:

09/03/2010

WO#: 1709

ENGINE MODEL IOF-240-B
ENGINE S/N 400143
REG NO N583XL
WORK ORDER 137-10-2011



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone 630 584 3200

DATE: 14 October, 2011
A/C TSN 404 4
ENG TT 404 4
TSMOH
TACH 404 4

Engine Entries

- 2 This engine was inspected and serviced as per the Liberty and TCM service manuals for an annual inspection. Compressions were tested as follows: #1/75, #2/70, #3/76 & #4/75 all over 80 PSI. The oil and filter were changed. Opened and inspected the oil filter. Serviced engine with Aeroshell 15W50 oil and installed new filter p/n AA48110-2.
- 9 Adjusted idle speed to 650-700 RPM.
- 10 Installed 4 new exhaust rocker cover gaskets p/n 655704
- 14 Torqued cam shaft cover plate IAW SB96-7C.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L under Work Order No. 137-10-2011, Dated 14 October, 2011.

DATE: 14 October, 2011

SIGNED: *Don Morgan*

Don Morgan
Certified Repair Station No. NF2R029L

Work Order: 137-10-2011

Printed by EBis 3 (datamedia.com)

REG. NO.	N583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
4241 ED URBAN DR.
PERU, IL 61354

DATE	07/31/12
FHM	446.9
T.T.	

DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 -
GROUND RUN AND LEAK CHECK GOOD

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs -
ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN *Bryan Hartman*

A&P 354729066 IA

REG. NO.	N583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O. BOX 451
PERU, IL 61354

DATE	01/01/13
TACH	469.5
T.T.	469.5
SMOH	

DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 -
CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS - CHECKED COMPRESSION #1 - 74/80 #2 -
65/80 #3 - 75/80 #4 - 71/80 - REPLACED #4 INTAKE GASKET (P/N 649963) - GROUND RUN AND LEAK
CHECK GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL
INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

BRYAN G. HARTMAN *Bryan Hartman*

A&P 354729066 IA

REG. NO.	N583XL
MAKE	TCM
P/N	IOF-240-B5
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
4241 ED URBAN DR.
PERU, IL 61354

DATE	06/04/13
FHM	478.5
T.T.	

DRAINED OIL, REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - GROUND RUN AND
LEAK CHECK GOOD

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs -
ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

BRYAN G. HARTMAN *Bryan Hartman*

A&P 354729066 IA

REG. NO.	N583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O.BOX 451
PERU, IL 61354

DATE	02/13/14
TACH	496.4
T.T.	496.4
SMOH	

DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS - CHECKED COMPRESSION #1 - 72/80 #2 - 62/80 #3 - 75/80 #4 - 70/80 - GROUND RUN AND LEAK CHECK GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

CHARLES M. STUDER

Charles M. Studer

A&P 337545845 IA

REG. NO.	583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O.BOX 451
PERU, IL 61354

DATE	07/31/14
HOBBS	502.7
TT	

DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - GROUND RUN AND LEAK CHECK GOOD

THE AIRCRAFT OR ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IAW CURRENT FARs - ONLY THE WORK DESCRIBED ABOVE IS APPROVED FOR RETURN TO SERVICE

AARON R. DELHOTAL

Aaron R. Delhotal

A&P 3614153

REG. NO.	N583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O.BOX 451
PERU, IL 61354

DATE	05/14/15
TACH	520.7
T.T.	520.7
SMOH	

INSPECTED ENGINE USING TCM AND LIBERTY CHECKLISTS AS A GUIDE - DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS - CHECKED COMPRESSION #1 - 78/80 #2 - 68/80 #3 - 77/80 #4 - 76/80 - GROUND RUN AND LEAK CHECK GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

CHARLES M. STUDER

Charles M. Studer

A&P 337545845 IA

REG. NO.	N583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O.BOX 451
PERU, IL 61354

DATE	06/24/16
TACH	540.5
T.T.	540.5
SMOH	

INSPECTED ENGINE USING TCM AND LIBERTY CHECKLISTS AS A GUIDE - DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS - CHECKED COMPRESSION #1 - 70/80 #2 - 68/80 #3 - 70/80 #4 - 72/80 - GROUND RUN AND LEAK CHECK GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

CHARLES M. STUDER

Charles M. Studer

A&P 337545845 IA

REG. NO.	N583XL
MAKE	TCM
MODEL	IOF-240-B
S/N	400143

MIDWEST AVTECH INC.
I.V. REGIONAL AIRPORT
P.O.BOX 451
PERU, IL 61354

DATE	06/22/17
TACH	557.8
T.T.	557.8
SMOH	

INSPECTED ENGINE USING TCM AND LIBERTY CHECKLISTS AS A GUIDE - DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS - CHECKED COMPRESSION #1 - 72/80 #2 - 70/80 #3 - 74/80 #4 - 70/80 - GROUND RUN AND LEAK CHECK GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

CHARLES M. STUDER

Charles M. Studer

A&P 337545845 IA

ord
tions,

Date	REG NO. N583XL	MIDWEST AVTECH INC.	DATE 08/08/18	rd ins,
	MAKE TCM	I.V. REGIONAL AIRPORT	TACH 589.3	
	MODEL IOF-240-B	P.O. BOX 451	T.T. 589.3	
Brought Forw:	S/N 400143	PERU, IL 61354	SMOH	

INSPECTED ENGINE USING TCM AND LIBERTY CHECKLISTS AS A GUIDE - DRAINED OIL, INSPECTED AND REPLACED FILTER, SERVICED SYSTEM WITH AEROSHELL 15W50 - CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS - CHECKED COMPRESSION #1 - 70/80 #2 - 70/80 #3 - 73/80 #4 - 72/80 - GROUND RUN AND LEAK CHECK GOOD

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW FAR 43 APPENDIX D FOR AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION

CHARLES M. STUDER *Charles M. Studer* A&P 337545845 IA

ENGINE MODEL IOF-240-B
ENGINE S/N 400143
REG NO N583XL
WORK ORDER 8413-08-2019



J.A. Air Center

Repair Station No. NF2R029L
43W730 US RT 30
Sugar Grove, Illinois 60554
Phone 630 584 3200

DATE 17 December, 2019
A/C TSN 590
ENG TT 404.4
TSMOH:
TACH

Engine Entries

- 2 This engine was inspected and serviced as per the Liberty and TCM service manuals for an annual inspection. Compressions were tested as follows. #1/78, #2/75, #3/75 & #4/78 all over 80 PSI. The oil and filter were changed. Opened and inspected the oil filter. Serviced engine with Aeroshell 15W50 oil and installed new filter p/n AA48108-2.
- 10 Installed 8 new P/N REM38E spark plugs.

Maintenance Release

I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA 145.5424 under Work Order No. 8413-08-2019, Dated 17 December, 2019.

DATE: 17 December, 2019

SIGNED:

Jon Hilgenberg
Certified Repair Station No. NF2R029L

Work Order: 8413-08-2019

Printed by EBis 3 (datcomedia.com)

Burlington Air Center

703 Airport Rd. Burlington, WI, 53105
(262) 763-9500 Fax (262) 763-2910

6/17/2020

N583XL

Hobbs: 904.2

Installed: new RHM-38E spark plug on #2 cylinder lower position (dropped).

Performed: borescope inspection of cylinders, results unremarkable.

Compressions: 1) 74/80, 2) 67/80, 3) 75/80, 4) 77/80.

Ran up aircraft: checked systems found satisfactory at this time.

I certify that the work described above has been accomplished and inspected in accordance with current regulations and is approved for return to service.

Charles M. Studer IA3446656

8-19-20

634.7

Inspected RH ECU For ground problem & Behind Instrument Panel. None Found
Phil Schandlmeier 34009761A

9/24/20 Tach/100: 647.8

Change oil & filter. Serviced with 5 qts of *VC20W 90* oil and a CH48 *105* filter.
Charles Schandlmeier, IA3578007

Compression Test Results 170-45
72, 65, 75, 74/80

Select Avionics, LLC. 1500 E. Industrial Blvd Ste 121 McKinney, TX 75069 5ECR951Y
LOG ID# 1693 09-September-2020 WO# 4358 SA 20 AC TT 636.7
N583XL S/N 0068 LIBERTY LIBERTY XL-2

Pg 1 / 1

rd
ons,

Bro

DISCREPANCY: Fuel air data computer inop.
Model: N/A Part#: N/A Serial#: N/A

As per confirmed problem in aircraft. Rung out wiring and all wiring checked normal. Found
bulkhead tied through connector (P5 & P6) oil soaked. Cleaned connectors and wiring. FAUC now
checks normal.

no aircraft/appliance identified above was repaired in accordance with current Federal Aviation
agency regulations and is hereby approved for return to service with respect to work performed

[Signature] 9/9/20
Date
Jerry Huntley

11/1/2020 T-656.5 AFTT-656.5

Annual Inspection

Removed all body panels, lubed all cables and pulleys, inspect airframe.
and reinstall all body panels after work was accomplished. Checked all
lights, beacon and strobes. Removed main fuel screen, inspect, clean and
reinstalled. Removed all wheels, clean, inspect, pack wheel bearings and
reinstalled wheels. Installed new ELT batteries. Complied with FAR91-
207d, ELT battery exp 12/22. Check all AD thru 20-22. See AD
compliance record, dated 9/2020, for details. All work performed IAW
FAR43, Appendix D and AC43.13 1B/2A and applicable maintenance
manual. This aircraft is returned to service. Charles Schandelmeier,
IA3575997

I CERTIFY THAT THIS Engine HAS
BEEN INSPECTED IN ACCORDANCE WITH A
100 hr / Annual INSPECTION AND WAS FOUND
TO BE IN AIRWORTHY CONDITION.

12/1/20 Tach ~~730.8~~ 730.8

Change oil & filter. Serviced with 7 qts of
~~Wichita~~ oil and a CH48 108 filter.
Charles Schandelmeier, IA3575997

12/2/2020 T-730.8

Installed new customer supplied
alternator belt. This aircraft is returned
to service. Charles Schandelmeier,
IA3575997

12/22/2020 T-759.5

Replace alternator with customer supplied new
Plane Power alternator, PN-ES-6012-6, SN-H-
T0583813. Function check by customer proved
normal operation. This aircraft is returned to
service. Charles Schandelmeier, IA3575997

1/22/2021 T-781.9 ETT-781.9

100 Hr Inspection

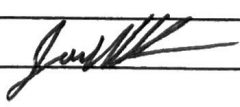
Compression test: 72, 72, 77, 72/80

Removed all sparkplugs, clean inspect gap and reinstall. Change oil and
filter. Serviced with 5 quarts of Phillips XC 20w50 oil and a CH48108-1
filter. Cleaned engine intake air filter. Check all belts, hoses, and engine
mount for condition and wear. Inspected intake and exhaust systems.
Reinstalled engine cowling. Ran engine to full power and checked all
systems. All checks were normal. All work performed IAW FAR43,
Appendix D and AC43.131B/2A and applicable maintenance manual
Charles Schandelmeier, IA3575997

1-22-21 T-781.9

I CERTIFY THAT THIS Propeller HAS
BEEN INSPECTED IN ACCORDANCE WITH A
100 hr / Annual INSPECTION AND WAS FOUND
TO BE IN AIRWORTHY CONDITION.

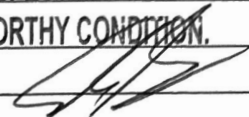
IA3575997

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
27 DEC 2021					
Brought Forward	→				
27 DEC 2021	824	1	TACH		① Removed & Inspected connector(s) J5 & J6 on Firewall. Cleaned & Reconnected. (P31 & P32)
	1221	4	HOBBAS		② Removed Circuit Breaker Panel; inspected FADEC A Primary Power Circuitry from Circuit breaker to connector P1/J1. No Defects, reassembled
					③ Removed Avionics Stack & removed center panel to verify wire harness condition behind panel. No defects. Reinstalled.
					④ Removed Instrument Panel / Pilots side to verify wire harness condition from Fadec Switches A & B to Fadec cabin harness. Repaired (repl) 22 gage wire worn thru with butt splice. No other defects noted. Reinstalled.
					⑤ Removed Belly Panel & Inspected Fadec Cabin harness to connector P5/P6 (J31 & J32). No defects Noted - Reinstalled Panel.
					⑥ Disconnected Harness from ECU #1 & Inspected. Found Debris (Metallic) in connector. Cleaned & Reconnected harness. Reinstalled ECU #1.
					⑦ Removed & Replaced Fuel injector # 4; PN 655788
					⑧ Removed & Replaced EGT # 1 using TCM Repair Kit # 656827.
					Functionally Checked Engine with a ground run. After no defects noted, performed Maintenance test flt. with no defects still required post Annual.
					All work done I/A/W the Liberty XL 2 mm (PIN: 135A-970-100 Rev D) & the TCM IOF 240B MM (PN: M-22) Manual.
					Joseph A. Turnbach AP3011468
					

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward					

1/27/2022 T-824.1 ETT-824.1 100 hr inspection/Annual Inspection
 Compression Test-71, 66, 70, 71/80
 Removed all sparkplugs inspect, clean, test and reinstall. Change oil and filter. Serviced with 5 quarts of Phillips XC 20w50 oil and a CH48108-1 filter. Inspected engine air filter. Check all belts, hoses, and engine mounts for condition and wear. Inspected intake and exhaust systems. Ran engine to full power and checked all systems. All checks were normal. All work performed IAW FAR43, Appendix D and AC43.13 1B/2A and applicable maintenance manual. This engine is returned to service. Charles Schandelmeier, IA3575997

I CERTIFY THAT THIS Engine/Propeller HAS
 BEEN INSPECTED IN ACCORDANCE WITH A
100 hr / Annual INSPECTION AND WAS FOUND
 TO BE IN AIRWORTHY CONDITION.



2/15/2022 T-825.6
 Replace Harness Control Low Voltage,
 PN-655996. This engine is returned to
 service. Charles Schandelmeier,
 IA3575997



Date: 6/13/2023; Aircraft: N583XL

Tach: 874.4, EngTT: 874.4 - Performed annual inspection IAW FAR 43 appendix D. Checked cylinder compressions #1-73/80, #2-70/80, #3-75/80, #4-75/80. Cleaned, inspected, and rotated spark plugs. Drained oil, took sample and removed filter. Cut and checked ok. Installed new AA48108-2 oil filter and serviced with 6 qts. of Phillips 20W-50 V oil. Serviced induction air filter IAW K&N service instruction. CW AD2009-08-05, 04/19/52010, by inspection of exhaust system for cracks IAW Liberty CSB-09-001, due ea. 50hr or annually. Pressure checked exhaust system and heat mufflers. Leak tests OK. Checked engine controls for operation and security. All check OK. Test run OK.

I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Aero Maintenance, Inc.
 Shop Order 23-1637
 Jason Cochran
 AP3316647 IA





Teledyne Continental Motors, Inc.

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