

L H ENGINE LOGBOOK # 2  
WESTERN SKYWAY INC  
MAJOR OVERHAUL

THE **adlog**<sup>TM</sup> AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

**ENGINE  
MAINTENANCE  
RECORDS**



# ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

Aircraft Registration No. N 55 BZ

Engine Manufacturer Lycoming

Model IO 540-B1A5

Serial No. L-562-48

Date installed on aircraft 2-11-2002

Time Between Overhauls (TBO) 1,400 Hours

If used on multi-engine aircraft:

- |                                |  |
|--------------------------------|--|
| <input type="checkbox"/> Right | <input checked="" type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear            |



(All applicable information must be filled in)

**AEROTECH PUBLICATIONS INC.**

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2/24/17	4779.8	666.2	286.2	TOTALS brought forward from previous page
				L/H engine changed oil & filter. 12 QTS Aeroshell 100W, AA48108-2 filter. Cut & inspected removed filter & coarse screen. NO debris or metal. Leak checks good on ground run. L/H Starter not engaging properly. Removed & CWB change considered replaced. P/N on Skytec 149-NC/pc negligible per AC43.13-1B para. 10-2 S/N FNE-361359. OP checks good. Paul Z. Bugli. AIP 3404767.
2/24/17			286.2	R/H engine changed oil & filter 12 QTS Aeroshell 100W, AA48108-2 filter. Cut & inspected removed filter & coarse screen. NO debris or metal. Leak checks good on ground run. Paul Z. Bugli. AIP 3404767.
				Entered in Error B3
	6178.0	687.0	307.0	100 HR Inspection complete this date Engine compression as follows #1 2 3 4 5 6 Clean & gap plugs. Ground run nominal ADs current. (SEE LIST) Engine released for a return to service TEST flight AIP 2148943 JA
				SUB-TOTALS this page
	4800.6	687.0	307.0	TOTALS-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	4800.6	687.0	307.0	TOTALS brought forward from previous page
9-27-17	4800.6	708.8	328.8	Completed oil change. Replaced filter with CH48108-1 Champion. Serviced with 10 quarts Aeroshell 100W Darryl Fink AIP 3131929
6-1-18	4912.6	708.8	384.8	Completed Oil change Replaced filter with Tempest AA48108-2 Serviced with 10 quarts Aeroshell 100W Dow Butch Milbrandt
9-13-18	4,922.5	784.7	404.7	Log book entry Aero Commander 500B, N55BZ, S/N 1041-42 LH engine IO540-B1A5, S/N L562-48 Complied with a 100 hr. inspection in accordance with Twin Commander inspection guide 513A. Performed the following maintenance: 1. Compression check: #1-76, #3- 78, #5- 79 #2- 77, #4- 77, #6- 78 2. Removed hydraulic pump, & pump adapter, replaced adapter gar-loc seal & gasket, installed new hyd. pump shaft seal & mounting gasket. Replaced pump bulkhead O'rings. 3. R & R left magneto, replaced mounting gasket & adapter gasket, set magneto timing. 4. Installed new UREM 38E spark plugs. 5. Cleaned engine, replaced pushrod tube seals on #2 cyl, installed new rocker cover gasket. 6. Complied with the following recurring AD's A. AD 2017-16-11 "Lycoming engine connecting rods" found N/A by date of engine overhaul. Reference Lycoming MSB632 dated August 4, 2017. B. AD 2015-19-07 "Lycoming engine fuel injection lines" complied with by inspection per MSB 342G by inspection, no defects noted. Next inspection due @514.7 hrs. hobbs/6,386.0 aircraft total time. C. AD 2012-19-01 "Lycoming engine, crankshaft change" N/A at this time, due Jan. 1, 2024 Continued next page
				SUB-TOTALS this page
	4922.5	784.7	404.7	TOTALS-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	4922.5	784.7	404.7	TOTALS brought forward from previous page

9-13-18 4,922.5 784.7 404.7

Continued previous page, LH engine, N55BZ

- D. AD 2012-03-06 "Avstar fuel servo diaphragm" found N/A by overhaul date.
- E. AD 2004-10-14C "Lycoming engine" found N/A, due only upon prop strike.
- F. AD 2003-14-03 "AN rotary fuel pump" complied with by torque check per instructions, SB 529B. No defects. Next inspection due 504.7 hobbs or 6,376.0 aircraft total time. Engine run for leak & operation check. 100 hr inspection, & all maintenance completed per 500B, Lycoming Service Manual, & related service publications.

U. H. [Signature] A & P 3092428

9-13-18 4,922.5 784.7 404.7 Log book entry, LH engine, S/N L-562-48, Aero Commander eng, t.t. tsmoh hobbs 500B, N55BZ, S/N1041-42

I certify that this Engine has been inspected in accordance with an annual inspection, & determined to be in airworthy condition as of this date.

[Signature] A & P 349595 [Signature]

12-5-18 Hobbs 415.2 A/C TOTAL TIME 6286.8

LEFT ENGINE SMOH 700.8 LEFT PROPELLER SNEW 700.8

ENGINES AND PROPELLERS INSTALLED ON N55BZ 2-11-2002

AT AIRCRAFT TOTAL TIME 5586.0

INSPECTION PERFORMED IN ACCORDANCE WITH FAR FAR 43 APPENDIX D

AND LYCOMING SERVICE INFORMATION. A.D. COMPLIANCE IN A.D. SECTION

OF AIRCRAFT RECORDS. I CERTIFY THIS ENGINE HAS BEEN

INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION

AND DETERMINED TO BE IN AIR WORTHY CONDITION.

SUB-TOTALS this page

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compressions 76/80 or BETTER, oil screen NO METAL FOUND

K [Signature]  
A & P 20652913614

HANCOCK ENTERPRISES INC.

## ENGINE SERVICE RECORD

## ENGINE DATA

Model: Lycoming IO 540-B1A5  
S/N: L-562-48  
Date: Feb 12, 2020  
Position: LH

WORK ORDER: 2462

## ACCUMULATIVE TOTALS

TSO: 743.0  
Hr. Meter: 457.4

Complied Annual/ 100 Hour Inspection in accordance Commander Inspection Form 513A, Part Number IG00002 and other documents as required.

4. Repaired loose wiring by installing heat shrink on EGT probes.
24. Replaced safety wire on oil pressure relief valve cover, LH engine, using Standard Shop Practices.
25. Alternator adjustment bolt, corrected safety wire for bolt tension, LH engine, using Standard Shop Practices.
26. Re-torqued all rocker box covers to 50" lbs. IAW Lycoming MM.
27. LH engine, repaired crack and sealed cooling baffle air dam and sealed using Standard Shop Practices.
29. Retimed mags, LH engine, per Lycoming MM.
38. Slick/Champion mag 4300 and 6300 impulse coupling due at 1072.8.
39. C/W AD 203-14-03 per S/B 529B Crane Romec Rotary Fuel Pump, both engines.
40. C/W AD 2015-19-07 per S/B 342G Inspection of Manifolds, both engines.
42. Cleaned #1 bottom spark plug. Pressure tested, LH engine, Checked ok.
43. Cleaned, gapped, tested, spark plugs on both engines using Standard Shop Practices.
51. Changed oil and filter LH engine, oil Aero Shell 100W and Filter Inspected filter IAW Lycoming MM.
76. Replaced pulley set on LH alternator. Set to proper tension per STC...
80. Adjusted both engines idle speed and fuel mixtures IAW Lycoming MM.

The following parts were replaced, overhauled or inspected.

Part Number	Description	Qty.	Serial Number	Condition
UREM38E	Spark Plug	1	NSN	New
BA151E	Bracket, Air Filter	1	NSN	NEW
CH48108-1	Filter, Oil	1	NSN	New
100W	Aero Shell Oil	11	NSN	New
UM674PK	Spark Plug Gasket	12	NSN	New

I certify that this Engine has been inspected in accordance with Annual Inspection per FAR Part 43 of the Federal Aviation Administration and has been determined and is approved for return to service with regards to the work performed.

Pertinent details of this inspection and repairs are on file at this repair facility under work order number 2462.

Date: 12 February 2020

Signature: [Signature]

Robert R Hancock  
A&P 2210045 IA

OFFICE/ENGINE SHOP  
Hancock Enterprises, Inc  
3656 Central Pike  
Hermitage TN. 37076  
U.S.A

Hanger 624 MQY.  
Fitzhugh Blvd  
Smyrna, TN 37167  
U.S.A

T.T. AEROTECH Corp. 125 Airport Ln Savannah, TN 38372 7TTR565C  
LOG ID# 789 30 March-2021 WO# 1994-2 FORM# TTA-015 AC TT 6433.8 HOBBS 562.7  
N55BZ S/N 500B-1041-42 AERO COMMANDER 500B TSMOH 848.3

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\*\*\*\*\* ITEM # 1994-2 ANNUAL \*\*\*\*\*  
PERFORMED ANNUAL INSPECTION ON LH ENGINE IAW FAR 43 APPENDIX D AND OEM SERVICE MAINTENANCE.  
COMPRESSION CHECKED AS FOLLOWS: #1 80/80 , #2 80/80, #3 80/80, #4 78/80, #5 80/80, #6 80/80.  
RESEARCHED AIRWORTHINESS DIRECTIVES FOR APPLICABILITY AND COMPLIANCE THOUGH AD 17-16-11 AND  
3/29/2021. C/W AD 15-19-07 FUEL INJECTOR FUEL LINES AND CLAMPS IAW LYCOMING SB 342G, NO DISCREPANCY  
NOTED, NEXT DUE HOBBS 672.7. REPLACE BA151E AIR FILTER. REMOVED, CLEANED, RE-GAPPED, TESTED AND  
REINSTALLED SPARKS PLUGS WITH NEW GASKETS. CHECKED MAGS TIMING. OIL CHANGED BY CUSTOMER. PERFORMED  
POST INSPECTION OPERATIONAL GROUND RUN UP OF ENGINE, CHECKED GOOD. I CERTIFIED THAT THIS AIRCRAFT  
ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL AND WAS DETERMINED TO BE IN AN AIRWORTHY  
CONDITION AND RETURNED FOR SERVICE.

Winston Braun, 3-30-2021  
signed 7TTR565C WINSTON BRAUN JR Date

1406120	6415.1 <del>8133.8</del>	830.2	544.6	DRAINED OIL, REMOVED FILTERS, CUT OPEN & CHECKED FOR METAL, SERVICED WITH 12 QTS AEROSHELL W100 SAE J1899 SAE 50, AND TEMPEST OIL FILTERS AA48108-2 AND 1 PINT CAM GUARD AVIATION, EACH ENGINE. RAN ENGINES CHECKED FOR LEAKS, NONE FOUND. Daniel B. Miller PILOT/OWNER ATP 2726097
				SUB-TOTALS this page
				TOTALS-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
23 JUN 21	6451.2 <del>6470.5</del>	866.9	581.3	REMOVED FILTERS, DRAINED OIL, CUT OPENED FILTERS, CHECKED FOR METAL, SERVICED WITH 12 QTS AEROSHELL W100, SAE J1899 SAE 50 AND 1 PINT CAM GUARD AVIATION GRADE ENGINE. MAN ENGINES CHECKED FOR LEAKS NONE FOUND. OWNER/PILOT NEW FILTER TEMPEST AA48108-L
9/24/2021	6459.6	874.7	599.1	<div> <div>GLEN WILSON AIRCRAFT, LLC 154 A. Q. GREER DR. HOLLY SPRINGS, MS 38635</div> <div>CELL: 901-481-2258</div> </div> <p>9/24/2021 N55BZ Aero Commander 500B s/n 500B-1041-42 hobbs: 5991.0 599.1</p> <p>Removed and replaced alternator belts p/n 7385. Removed &amp; replaced locknut on alternator mounting bolt p/n MS21045L7, adjusted belt tension and safety adjustment bolt.</p> <p>Glen K. Wilson Jr. A&amp;P 3399436 9/24/2021 Glen K. Wilson Jr. A&amp;P 3399436 9/24/2021</p>
12 007 21	6470.1	885.2	599.6	DRAINED OIL, REMOVED FILTER, CUT OPEN FILTER & CHECKED FOR METAL, SERVICED WITH 9 QTS AEROSHELL W100 SAE J1899 SAE 50, & 1 PINT CAM GUARD REMOVED AND INSPECTED SUMP SUCTION SCREEN, NOTHING FOUND. MAN ENGINES & CHECKED FOR LEAKS, NONE FOUND, NEW FILTER TEMPEST AA48108-L. OWNER/PILOT A7P 2726097
				<b>SUB-TOTALS</b> this page
				<b>TOTALS</b> -Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
11/11/21	6472.0	887.1	601.5	CK AD 2003-14-3 CK FOR LEAKS NONE FOUND Terry Swat A7P 3560242
				<div> <div>T.T. AEROTECH Corp. 125 Airport Ln Savannah, TN 38372 7TTR565C LOG ID# 906 26-March-2022 WO# 2111-0 FORM# TTA-015 AC TT 6484.9 HOBBS 613.8 N55BZ S/N 500B-1041-42 AERO COMMANDER 500B TSMOH 899.4</div> <div>Pg 1 / 1</div> </div> <p>**** ITEM # 2111-1 ANNUAL **** PERFORMED ANNUAL INSPECTION ON LH ENGINE IAW FAR 43 APPENDIX D AND OEM SERVICE MAINTENANCE. COMPRESSION CHECKED AS FOLLOWS: #1 72/80, #2 74/80, #3 76/80, #4 74/80, #5 76/80, #6 76/80. RESEARCHED AIRWORTHINESS DIRECTIVES FOR APPLICABILITY AND COMPLIANCE THOUGH 3/22/2022. C/W AD 15-19-07 FUEL INJECTOR FUEL LINES AND CLAMPS IAW LYCOMING SB 342G, NO DISCREPANCY NOTED, NEXT DUE HOBBS 713.8. INSTALLED GAMJECTORS GAMI KIT GL10-6 S/N: 30689 IN ACCORDANCE WITH STC SE094455C, OEM INSTALLATION PROCEDURES #IP-98-001 AND SUBMITTED FAA FORM 337. REMOVED, CLEANED, RE-GAPPED, TESTED AND REINSTALLED SPARKS PLUGS WITH NEW GASKETS. CHECKED MAGS TIMING. CHANGED OIL AND FILTER (AA18108-2, 10 QTS W100 AND 16 OZ CAMGUARD OIL SUPPLEMENT). PERFORMED POST INSPECTION OPERATIONAL GROUND RUN UP OF ENGINE, CHECKED GOOD. I CERTIFIED THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND RETURNED FOR SERVICE.</p> <p>Signed 7TTR565C THOMAS TWIDDY SR Date 3-26-2022</p>
				<p>This Engine Is Equipped With</p> <p><b>GAMIjectors®</b></p> <p>Performance Fuel Injection</p> <p>NOTE: Fuel Injector Nozzle Location Is Specific To Each Cylinder. Refer To Individual Cylinder/Injector Identification When Removing/Installing Nozzles.</p> <p>General Aviation Modifications, Inc. 2800 Airport Rd. - Ada, OK 74820 - (580)436-4833</p>
				<div> <div>T.T. AEROTECH Corp. 125 Airport Ln Savannah, TN 38372 7TTR565C LOG ID# 1102 12-May-2023 WO# 2257-1 FORM# TTA-015 AC TT 6561.9 HOBBS 690.3 N55BZ S/N 500B-1041-42 AERO COMMANDER 500B TSMOH 975.9</div> <div>Pg 1 / 1</div> </div> <p>PERFORMED ANNUAL INSPECTION ON LH ENGINE IAW FAR 43 APPENDIX D AND OEM SERVICE MAINTENANCE. COMPRESSION CHECKED AS FOLLOWS: #1 76/80, #2 78/80, #3 77/80, #4 77/80, #5 77/80, #6 76/80. RESEARCHED AIRWORTHINESS DIRECTIVES FOR APPLICABILITY AND COMPLIANCE THOUGH 5/11/2023. C/W AD 15-19-07 FUEL INJECTOR FUEL LINES AND CLAMPS IAW LYCOMING SB 342G, NO DISCREPANCY NOTED, NEXT DUE HOBBS 790.3. REMOVED AND REINSTALLED R/H MAG AFTER AERO ACCESSORIES CRS# XB2R288L PERFORMED 500 HOUR INSPECTION. CHECKED MAGS TIMING. REMOVED, CLEANED, RE-GAPPED, TESTED AND REINSTALLED SPARKS PLUGS WITH NEW GASKETS. CHANGED OIL AND FILTER (AA18108-2, 10 QTS W100 AND 16 OZ CAMGUARD OIL SUPPLEMENT). REPLACED AIR INDUCTION FILTER WITH BA151E. RETORQUED ROCKER COVER SCREWS. PERFORMED POST INSPECTION OPERATIONAL GROUND RUN UP OF ENGINE, CHECKED GOOD. I CERTIFIED THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND RETURNED FOR SERVICE.</p> <p>Signed 7TTR565C THOMAS TWIDDY SR Date 5-12-2023</p>
				<b>SUB-TOTALS</b> this page
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