

#2



The Standard

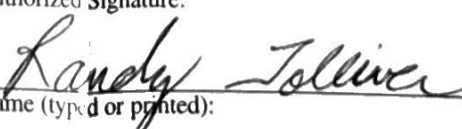
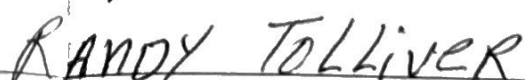
ENGINE LOG

MENA AIRCRAFT ENGINES, INC.
FAA CRS #S9QR340N


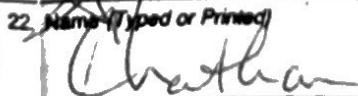
103 Aviation Lane
MENA, ARKANSAS 71953
(501) 394-7688

Engine Record General Information

Manufacturer Lycoming Model IO-540-T4A5D
Serial L-14555-48A Type Certificate _____
This engine is currently installed in aircraft: N 4736W Rockwell Commander
114 S/N 14066 1976
Minimum Octane Fuel _____ Oil Grade Summer 15W50/W100 Winter W80
Magnetos Time _____ Point Setting _____ Firing Order _____
Spark Plug Gap _____
Manufacturer's Recommended Overhaul at _____ hours

1. UNITED STATES		FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					3. SYSTEM TRACKING REF. NO. 61776	
4. ORGANIZATION		ELECTROSYSTEMS, INC. P.O. BOX 273 AIRPORT COMPLEX FORT DEPOSIT, AL 36032					5. Work Order, Contract, or Invoice No: W/O: M438560	
6. ITEM	7. DESCRIPTION	8. PART NO.	9. ELIGIBILITY*	10. QTY.	11. SERIAL/BATCH NO.	12. STATUS/WORK		
1	ALTERNATOR ***** END *****	ALX8421R	TBV BY INSTALLER	1	8052078	OVERHAUL		
13. REMARKS: A COPY OF WORK ORDER AVAILABLE ON REQUEST FROM ELECTROSYSTEMS, INC. APPROVED FOR EXPORT THE ORIGINAL MFG. SERIAL # AND MODEL # APPEARS ON THIS DATA PLATE IN THE LINE IDENTIFIED AS MOD/NO. COMPLIES WITH FPS-9001 NOTE: THE FAA-PMA SHOWN ON THE DATA PLATE ONLY REPRESENTS FAA APPROVAL OF THE REPLACEMENT DATA PLATE THE FOLLOWING SERVICE BULLETINS & ADs HAVE BEEN COMPLIED WITH ON ITEM 1: SB ASM-8, ASM-9, ASM-15, AND AD 7-15-2 OVERHAULED PER PRESTOLITE TECHNICAL DATA MANUAL DE-A1, ALX TECH DATA ISSUED 4-1-83								
Limited life parts must normally be accompanied by maintenance history including total time/total cycles/time since new.								
14. NEW <input type="checkbox"/> NEWLY OVERHAUL <input type="checkbox"/> Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness regulations. <u>NOTE:</u> In case of parts to be exported, the special requirements of the importing country have been met.					19. Return to Service in Accordance with FAR 43.9 <input checked="" type="checkbox"/> Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.			
15. SIGNATURE:		16. FAA Authorization No:		20. Authorized Signature:		21. Certificate Number:		
						UT2R226L		
17. NAME (typed or printed):		18. DATE:		22. Name (typed or printed):		23. DATE:		
						05/20/98		

[illegible]

UNITED STATES		FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration				3. System Tracking Ref. No. 12992 - 1	
4. Organization TEXAS AIRCRAFT INSTRUMENTS, INC. F.A.A. CRS# HE2R869K 8700 TRAVELAIR ST. HOUSTON, TEXAS 77061 PH 713 644 TEXAS						5. Work Order, Contract, or Invoice Number: 12992	
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial/Batch Number	12. Status/Work	
1	ALTIMETER, UNITED INSTS.	5934-1	VARIOUS	1	F626223	RTC	
13. Remarks <div style="text-align: center; font-size: 1.2em;">REPAIRED, TESTED, AND CERTIFIED</div> <div style="text-align: center;">CERTIFIED TO COMPLY WITH FAR, PART 43 APPENDIX E TO <u>20,000</u> FT.</div>							
Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.							
14. New <input type="checkbox"/> Newly Overhauled <input type="checkbox"/> Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts to be exported, the special requirements of the importing country have been met.				19. Return to Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.			
15. Signature		16. FAA Authorization No.:		20. Authorized Signature:		21. Certificate Number:	
						HE2R869K	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed):		23. Date:	
						12/9/96	

D & B AIRCRAFT ENGINES

5508 N. ROCKWELL, UNIT B
BETHANY, OKLA. 73008
(405) 495-0457

N4136W

Certified Repair
Station #
HX2R888K

Customer: Commander Aircraft Co **W.O. #:** 6315


Component: Hose (8) **Mfg.:** Stratoflex

Remarks: Built 8 hoses with firesleeve.

Date: 6-22-99

Inspected By: CAM

**Limited Maintenance
Release**



The component shown on the reverse side of this tag has been repaired and inspected in accordance with Federal Aviation Regulations. However, this component may require further inspection before its return to service. Only work noted is covered by this Release. Details are on file at this agency.

Date: 6-22-99

Authorized Signature: 

D & B AIRCRAFT ENGINES

5508 N. ROCKWELL, UNIT B
BETHANY, OKLA. 73008
(405) 495-0457

Certified Repair
Station #

HX2R888K

Customer: Commander Aircraft **W.O. #:** 6307


Component: Magneto D6LN-2031 **Mfg.:** Bendix

Remarks: Inspected as per AD96-12-07. X value
=37-39. Requires re-insp @ 100 hrs. S/N R959K

Date: 6-11-99

Inspected By: JLM

**Limited Maintenance
Release**



The component shown on the reverse side of this tag has been repaired and inspected in accordance with Federal Aviation Regulations. However, this component may require further inspection before its return to service. Only work noted is covered by this Release. Details are on file at this agency.

Date: 6-11-99

Authorized Signature: _____

[Handwritten Signature]

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

FAA Certified Repair Station CMKR305K
7200 N.W. 63rd St., Bethany, OK 73008
Telephone (405) 495-8080 FAX (405) 495-8383

MODEL IO-540-T4A5D REG# N4736W S/N L-14555-48A
DATE 07-21-99 TTAF 1528.54 SMOH N/A W/O M1715

Performed 100hr Inspection in accordance with Commander 114 guidelines. Changed oil & filter serviced with 8qt Aeroshell 15W50, C/W AD 93-02-05 insp. of fuel lines due each insp., C/W AD 96-12-07 magneto impulse coupling by CRS#HX2R888K WO# 6307 s/n R959K due each 100 hrs. C/W 5yr replacement of all fuel & oil hoses by CRS#HX2R888K W.O.#6315. C/W 500 oil cooler flush. Installed new spark plugs. This engine has been inspected in accordance with and 100hr Inspection and is approved for return to service for work performed under Commander Aircraft Company work order number M1715 A copy of this work order is on file at this repair station.

Signed: _____

FOR COMMANDER AIRCRAFT COMPANY REPAIR STATION CMKR305K

© 1991 ASA

JORDAN PROPELLER SERVICE, INC.

P.O. BOX 12656

CRS # EK2D797K
PHONE 713-643-7464

HOUSTON, TEXAS 77217

SOLD TO R011
Ruston Flying Service

P. O. Box 250

SHIP TO

Ruston Flying Service
128 Flightline Drive
Ruston LA 71270

Ruston LA 71273

ORDER NO
4736W

SHIPPING DATE

ROUTE

FOB

TERMS

INVOICE DATE

INVOICE NO

10/14/99 009711

QUAN.

ITEM #

DESCRIPTION

1 Each Edo-Aire Governor
Model 34-828-014-7
Serial 9655 Overhauled
I/A/W Manual No. 34-828-01
Overhaul Parts Kit
Labor
Freight
Materials
Product Liability Insuran

1
1
1
1
1

WOK-001
LABOR
FREIGHT
MAT
PLI

SHIP METHOD: Counter Pickup
002841

COMMENTS:

C.D. Swartz

SUB 1

MISC. CH
FRE
TOTAL

Thank You

JORDAN PROPELLER SERVICE, INC.

Form W-12

SERVICEABLE

NAME RUSTON FLYING SERVICE

~~PROPELLER~~—~~GOVERNOR~~—~~BLADE~~—~~HUB~~—

MODEL 34-828-014-7

SERIAL SERIAL 9655

PITCH-HIGH --- LOW --- INDEX/REV. ---

OUTPUT PRESS. 290 QT.PER.MIN. 5

MIN. RPM ---- MAX. RPM 2570

REMARKS _____

☒ OVERHAULED

☐ REPAIRED -

☒ INSPECTED

☒ TESTED

YOUR ORDER NO. 4736W

OUR ORDER NO. 2841

MAINTENANCE RELEASE

This stamped paper is an official document and shall be kept with the AIRCRAFT'S OFFICIAL HISTORICAL RECORDS. Work accomplished under the above listed work order number is on file at this agency. The above component was repaired and/or inspected in accordance with the current FEDERAL AVIATION REGULATION, and approved for return to service. The mechanic making the installation must C/W FAR 43.9.

SIGNED C.D. Swartz DATE 10-14-99

JORDAN PROPELLER SERVICE, INC.

6820 PICCADILLY • HOUSTON, TEXAS 77061

FAA APPROVED REPAIR STATION EK2D797K

1 UNITED STATES		2 FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG US Department of Transportation Federal Aviation Administration		3. System Tracking Ref. No. SAME AS BLOCK 5	
4. Organization Teledyne Continental Motors P.O. Box 90 Mobile, Alabama 36601		PAA/PMA		5. Work Order, Contract, or Invoice # P29715	
6. Item 1	7. Description MAGNETO		8. Part No. BL-682560-11		9. Eligibility* TBV BY INSTALLER
10. Qty 1	11. Serial/Batch No. I289906GR		12. Status/Work REBUILT		

13. Remarks
AIRWORTHINESS APPROVAL-PARTS. THIS IS NOT AN EXPORT APPROVAL.

THIS PART HAS BEEN RETURNED TO SERVICE IN ACCORDANCE WITH FAR PART 43.3(J)(2).
MANUFACTURED UNDER FAA/PMA

Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.

14. New Newly Overhauled		19. Return to Service in Accordance with FAR 43.9 <u>X</u>	
<p>Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness regulations.</p> <p>NOTE: In case of parts to be exported, the special requirements of the importing country have been met.</p>		<p>Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service.</p>	
15. Signature:	16. FAA Authorization #:	20. Authorized Signature: <i>Daniel L. Nicholas</i>	21. Certificate Number: PQ1269CE
17. Name (typed or printed):	18. Date:	22. Name (typed or printed): Daniel L. Nicholas	23. Date: 10/07/1999

Airworthiness Approval Tag User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The FAA Form 8130-3 and JAA Form One are equivalent. Other countries such as Canada also have equivalent acceptable documents.

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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LOUISIANA AIRCRAFT INC. , Satellite repair station #CRSUG1D531K

128 Fightline Dr. P.O.Box 250 Ruston, Louisiana 71270

Date: 11-26-99 TACH: 1551.7 N4736W Commander 114 Engine entry as follows:

Removed magneto system M/N 10-382560-11 S/N R959K and installed magneto rebuilt by T.C.M. P/N BL-682560-11 S/N I289906GR using Textron Lycoming Maint. manual . Timed magneto to engine, installed new base gasket. Installed new ignition harness P/N 10-821614-6 (new) and routed as removed. Ran engine and checked for leaks and mag. drop. Returned to service under Louisiana Aircraft Inc.

W.O. # 3455 Signed Todd M. Fourmy Todd M. Fourmy
Chief Inspector for CRSUG1D531K

MAR 200 Total time 1562.43

REMOVE ENGINE FOR TUNE DN. + INSPECT
AS PER. Cust. Request. - ENCL -

Todd M. Fourmy AEP 1573460

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

MENA AIRCRAFT ENGINES, INC. - - FAA CRS#S9QR340N

Date: May 3, 2000 Engine Total Time: 1562.43 Time Since Overhaul: 00.00 hrs.
Engine Data: Textron-Lycoming model IO-540-T4A5D Serial #L-14555-48A

WORK PERFORMED: Major overhaul to new limits and specifications in accordance with Textron-Lycoming parts catalog #PC-615-8, Textron-Lycoming overhaul manual #60294-7, and Textron-Lycoming Table of Limits manual #SSP-1776.

COMPONENTS

crankshaft/counterweight assembly - magnetic particle and dimensionally inspected, rods and mains polished to M003, plated and baked flange, overhauled counterweights, installed, and dynamically balanced, c/w S.B.#475B, and certified by Rock Aviation of Boerne, TX w/o 5918-1 FAA CRS#RA7R115J.

crankshaft drive gear - p/n LW10284 - magnetic particle inspected, c/w S.B.#475B, and certified by Rock Aviation of Boerne, TX w/o 5172 FAA CRS#RA7R115J.

connecting rods(6) - p/n LW11750 - magnetic particle inspected, rebushed and repaired per Lycoming manual #60294-7, and certified by Rock Aviation of Boerne, TX w/o 5918-4 FAA CRS#RA7R115J.

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

COMPONENTS CONTINUED

camshaft - p/n 76148 - magnetic particle inspected, repaired per RAPS-1 and RAI0-1, and certified by Rock Aviation of Boerne, TX w/o 5918-2
FAA CRS#RA7R115J.

tach drive shaft - p/n 76121 - magnetic particle inspected, preground, chrome plated and finish ground per QQ-C-320B and #1035, and certified by Aircraft Specialties of Tulsa, OK w/o 109524 FAA CRS#DD2R764K.

hydraulic lifter bodies(12)- p/n 72877 - magnetic particle and dimensionally inspected, per RAIP-1, repaired per RAPS-3, and certified by Rock Aviation of Boerne, TX w/o 5918-3 FAA CRS#RA7R115J.

hydraulic plunger assemblies(12) - p/n 78290 - cleaned and inspected, flow matched per RAPS-10, and certified by Rock Aviation of Boerne, TX w/o 5918-3.5 FAA CRS#RA7R115J.

internal steel - cleaned and magnetic particle inspected by Rock Aviation of Boerne, TX w/o 5918-5 FAA CRS#RA7R115J.

crankcase - cleaned, zygo inspected, repaired, surfaced, align-bored, stress relieved, thru-bolt dowels installed, and certified by DIVCO of Tulsa, OK w/o WDC#73426 FAA CRS#DB2R762K.

cylinders(6) - exchanged - inspected, new seats, guides, and exhaust studs installed, new barrels installed, and certified by CAMtech Precision Manufacturing of Dallas, TX w/o 02097 FAA CRS#ZC5R060Y.

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COMPONENTS CONTINUED

valve rocker arms(12) - cleaned, magnetic particle inspected, rebushed and repaired per Lycoming manual #60294-7, and certified by Rock Aviation of Boerne, TX w/o 5918-5 FAA CRS#RA7R115J.

attaching hardware - cleaned, bright cadmium plated, baked at 375° for 3 hours, and iridited by United Plating Works of Tulsa, OK w/o 2230 FAA CRS#FA2R813K.

ACCESSORIES

fuel servo - p/n 2524673-7, s/n 56903, mfg. Bendix - inspected, overhauled, tested, and certified by Mike's A/C Fuel Metering Service of Tulsa, OK w/o 12560 FAA CRS#HK2R875K.

flow divider(with nozzles/lines) - p/n 2524232-2, s/n G1433, mfg. Bendix - cleaned, overhauled, tested, and certified by Mike's A/C Fuel Metering Service of Tulsa, OK w/o 12560 FAA CRS#HK2R875K.

fuel pump(exchanged) - p/n 41234 - cleaned, overhauled, tested, and certified by Aero Accessories of Gibsonville, NC w/o 31514 FAA CRS#YV4R688M.

following accessories were not overhauled at this time - they were overhauled at the following dates/hours: starter(12/7/94, 1426.0 hours), alternator(11/12/98, 1487.5 hours), propeller governor(10/18/99, 1550.3 hours), and magneto(11/26/99, 1557.7 hours).

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

NEW PARTS INSTALLED

Major overhaul gasket and seal set, crankshaft oil seal p/n LW13792, crankshft damper bushings, counterweight damper bushings, counterweight rollers, counterweight plates, counterweight snap rings, crankshaft gear attaching screw and lockplate, connecting rod bushings, connecting rod bolts p/n 75061, connecting rod nuts, connecting rod bearings M003, oil passage pipe plugs, front main bearings M003, intermediate and rear main bearings M003, oil pressure ball, oil pressure spring p/n 61084, prop governor drive set screw, tach drive snap ring, oil pump driving gear p/n 61297, oil pump driven gear p/n 61298, oil filter adapter kit, oil filter p/n CH48103, oil relief valve seat and snap ring, silicone valve cover gaskets, intake and exhaust rocker arm bushings, valve rocker shafts and thrust buttons, intake valves, exhaust valves, inner valve springs, outer valve springs, intake valve keepers, exhaust valve keepers, exhaust valve roto-caps, piston pin and plug assemblies p/n SL13444-1, cylinder oil drain hoses, cylinder oil drain hose clamps, magneto drive cushions, induction tube hoses, induction tube hose clamps, shroud tube lockplates and springs, exhaust gaskets, exhaust nuts, accessory housing and oil sump gaskets. Ignition harness installed new 11/26/99 at tach of 1557.7, and spark plugs installed new 7/21/99 at tach of 1528.54.

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

Engine Test Run: engine to be test run on aircraft in accordance with Textron-Lycoming Service Instruction #1427B by Hampton Enterprises of Mena, ARK 501-394-5290 and the appropriate log book entry made.

Return To Service - this engine overhauled to new limits in accordance with all current applicable FAA required data and procedures and is approved for installation and test run in aircraft. Pertinent details of the overhaul are on file at repair station **#S9QR340N** under work order # **00C-1157.**

Repair Station: Mena Aircraft Engines, Inc. - 103 Aviation Lane
Mena, Arkansas 71953 501-394-7688 or 7780

Signature *Robert Smith, Jr.* Robert Smith, Jr. #2549814

Date: May 3, 2000

Page 5

NOTE: list of A.D.'s complied with are listed in back of this engine log book in section designated for A.D.'s.

DATE <u>15</u> <u>MAY</u> <u>00</u>	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Date: 15 MAY 00 Tach: 1562.43 hours

Engine Time Since Major Overhaul: 00.00

This engine installed, ground run, and test flown in accordance with Textron-Lycoming Service Instruction #1427B and is approved for return to service. See aircraft log book for further details.

For Service AIP 1873460

Date 5-18-2000

Reg # N47036W

Tach 1562.43

AD compliance is current. Completed a 100 hour inspection IAW Rockwell Commander 100 Hour Inspection Checklist.

Mechanic [Signature] Cert. AIP 1873460 Date 18 MAY 00

I have inspected this engine in accordance with an annual inspection and determined it to be in airworthy condition.

Inspector [Signature] Cert. 1769599 Date May 18, 2000

DATE

19

Commander 114 s/n 14066 N4736W Tach 1577.0

Engine Log Entry

ons

of
(S.)*Legacy* AVIATION5410 OPERATIONS RD. — MONROE, LA 71203
(318) 387-0222 Repair Station #HLWR727EDATE 6-20-2000

Drained oil removed and inspected filter, no metal found. Installed new CH48103 filter and serviced with 8 qts of Aeroshell 50W mineral oil. C/W Mena Aircraft Engines, Inc. Service Bulletin #1. No leaks noted on runup.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.

LEGACY AVIATION FAA APPROVED REPAIR STATION #HLWR727E, MUNICIPAL AIRPORT, MONROE LA

SIGNED

Edmund M. Fournier

WO#

8281

12/05/00

TACH: 1600.9 Changed engine oil 8qts Alshell 80 mineral oil.
Removed & cut open oil filter & insp. for contaminants none noted.
C/W AD #2000-18-53E SB. #543A supplement #2 & S.I. #1453
by install of P/N 06 B23072 oil filter Adapter plate gasket.
Ran engine & checked for leaks. 1 Time completion - AD no longer
Applies.

Edmund M. Fournier
AP439138238IA

19_____

Legacy AVIATION

Drained oil removed and inspected filter, no metal found. Installed new CH48103 filter and serviced with 8 qts of 15W50 Aeroshell. No leaks noted on runup. Adjusted max rpm on governor. Removed Skytec starter and installed new magnalite starter p/n MZ-6222 s/n A111830.
Weight and balance change negligible.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service.

LEGACY AVIATION FAA APPROVED REPAIR STATION #HLWR727E, MUNICIPAL AIRPORT, MONROE LA

SIGNED E. H. [Signature] WO# 8574

ions
of
ies.)

DATE 2-9-01

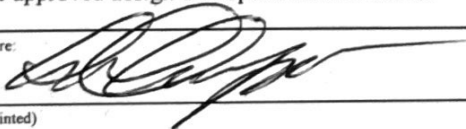
DATE 19 _____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
12-11-02	Jach	1769.08		<p>Changed oil and filter. Removed filter inspected no contaminants noted. Serviced engine with 8 Qts Aeroshell 15W50 and 1 ea CH48103 oil filter C/w AD93-02-05 by inspection of fuel injection lines and clamps per Lycoming EB 342A. No discrepancies noted. Next insp. due at Jach 1869.08 or 100 Hrs. Engine operational normal.</p> <p style="text-align: right;">Johnny M. Silver A&P 1942532</p>
06/25/03	TACH:	1796.5		<p>DRAIN OIL, TAKE OIL SAMPLE FOR LAB TEST. REMOVED, CUT AND INSPECT OIL FILTER. NO CONTAMINATION NOTED. SERVICE ENGINE WITH 8QTS. OF AEROSHELL 15W50 AND CH 48103 OIL FILTER. WASH ENGINE, TEST RUN AND CHECK FOR OIL LEAKS.</p> <p style="text-align: right;">[Signature] A&P 431894010</p>

FAA/PMA APPROVED

THIS STARTER WAS MANUFACTURED FROM ALL NEW COMPONENTS IN ACCORDANCE WITH FAR 21.303(h) UNDER AUTHORITY OF PMA NO. PQ0852SW AND IS AIRWORTHY. THIS STARTER IS FAA/PMA APPROVED AND IS ELIGIBLE FOR INSTALLATION ON LYCOMING 235, 290, 320, 360, 540, & 541 SERIES ENGINES. ENTER STARTER MODEL, SERIAL AND DATE OF INSTALLATION. ATTACH THIS TAG TO ENGINE LOGBOOK.

MODEL 149-12LS SERIAL F2L-250303

DATE OF INSTALLATION 07/11/03

1. Approving Nation Aviation Authority/Country FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number F2L-250303	
4. Organization Name and Address Sky-Tec 350 Howard Clemmons Rd. Granbury, Texas 76048 (PQ0852S)						5. Work Order/Contract/Invoice Number: F2L-250303	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	STARTER	149-12LS	Lyc. 235, 290, 320, 360, 540, 541	1	F2L-250303	NEW	
13. Remarks This PMA part is not a critical component.							
14. Certifies the items identified above, were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				<input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, code of Federal Regulations, Part 43 and in respect to that work the items are approved for return to service.			
15. Authorized Signature: 		16. Approval / Authorization No. DMIR-750120SW		20. Authorized Signature:		21. Approval / Certificate No.:	
17. Name (Typed or Printed) Eugene Chiappe		18. Date (m/d/y) 06/24/03		22. Name (Typed or Printed):		23. Date (m/d/y):	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts part/components/assemblies from the Airworthiness authority of the country specified in Block 1. Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

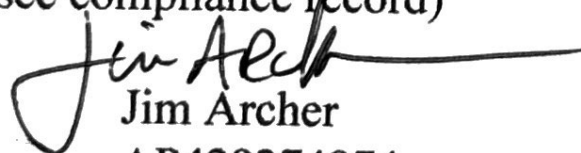
DATE 2003 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
07/11/03	TACH: 1796.5			REPLACE SKY-TECH STARTER WITH NEW SKY-TECH STARTER. SEE FORM 8130-3. RUN ENGINE AND ODS. CHECK.
				AP 43894910
10/14/03	TACH: 1810.60		ETSMOH: 248.17	COMPLIED WITH 100HR/ANNUAL INSPECTION I.A.W. COMMANDER 114 GUIDELINES AND CHECKLISTS. CHECK COMPRESSION '76, ² 74, ³ 74, ⁴ 72, ⁵ 77, ⁶ 77/80. CLEAN, GAPPED AND ROTATE SPARK- PLUGS AND REPLACE ALL SPARKPLUGS GASKET. COMPLIED WITH ALL APPLICABLE AD'S ON THIS ENGINE. WASH ENGINE, TEST RUN AND CHECK FOR OIL LEAKS. I certify this <u>ENGINE</u> has been inspected in accordance with an annual requirement and has been determined to be air worthy. AP 2649044861A

12-01-04

TACH TIME: 1863.7 ETSMOHI: 301.27

s and Alterations
rtificate Number of
her specific entries.)

Complied with 100HR/Annual Inspection IAW Commander 114 checklist and guidelines and Lycoming checklist. Checked compression (1) 77/80 (2) 76/80 (3) 75/80 (4) 72/80 (5) 76/80 (6) 74/80 replaced 6 spark plugs with RHM-38E, cleaned and gapped remaining plugs and installed new gaskets. Drained oil, removed, cut and inspected filter. Replaced filter with new P/N ES48103 and 8qts. Aeroshell 15W-50. Sent oil sample for Lab Analysis. Repaired 2 baffling with sheetmetal repairs. Replaced all SCAT and CAT Duct that were deteriorated and damaged. Replaced vaccuum hose with Mil-H-6000 hose. Washed Engine, test run and checked for leaks. All Ads checked and complied with through this date (see compliance record)


Jim Archer

AP429274974

I certify this ENGINE
has been inspected in accordance
with an annual requirement and
has been determined to be air
worthy.


AP 2649044881A

12-01-04

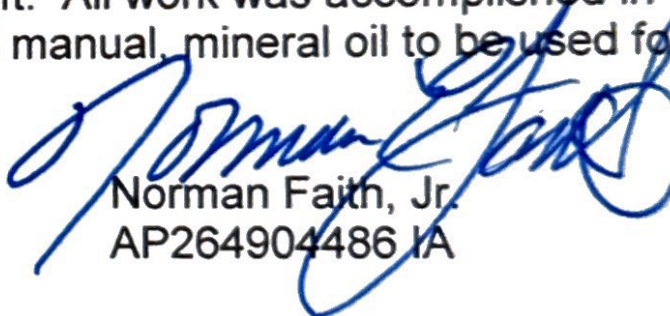
DATE 19 ____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

9/27/05

TACH: 1898.93

N4736W

Remove all six cylinders, due to sticking valves. Send cylinders to Gibson Aviation for overhaul, reinstall cylinders (see yellow tags), remove prop gov. & send to Aircraft Acc. for overhaul, reinstall overhauled prop gov. Test run Aircraft, test fly Aircraft. All work was accomplished in accordance with lycoming service manual & commander 114 manual. mineral oil to be used for first 50 hrs. & return to service.


 Norman Faith, Jr.
 AP264904486 IA

DATE 2005 12	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
12-12	1902.14	ETS MOH:	339.71	<p>Complied with 100hr ANNUAL INSPECTION. NEW CYLINDERS INSTALLED 3.21 HRS Ago. All COMPRESSIONS AND TIMING WITHIN NORMAL OPERATING PARAMETERS. CLEANED AND GAPPED SPARK PLUGS. WASHED ENGINE AND TEST RUN. NO LEAKS NOTED. All AD^s CHECKED AND COMPLIED WITH THROUGH THIS DATE.</p> <p>This engine was top overhauled at TACH. 1898.93 See Previous Page - 3.21 hrs total N. Jaich AP 264904486 IA</p> <p>I certify this has been inspected in accordance with an annual requirement and has been determined to be air worthy.</p> <p><u>ENGINE</u> Jim Archer AP 429224924</p> <p><i>[Signature]</i> AP 264904486 IA 12-12-05</p>

DATE 2006 19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
	1913.89			Replace two each fuel injector lines Change oil and filter, service engine with 8 qts Aeroshell 100 mineral, and a ES48103 filter. Take oil sample for lab. Clean spark plugs, check timing and compression, ran engine and had aircraft test flown by professional pilot. Ops. check good. <i>Matthew Spurs</i> <i>ABP 3039932</i>
9/26/06	TACH: 1927.60			DRAIN OIL AND TAKE SAMPLE FOR LAB. CUT FILTER FOR INSPECTION, SERVICE ENGINE WITH NEW ES48103 FILTER AND 8 QTS AEROSHELL 100W MINERAL OIL, WASH ENGINE AND RUN FOR LEAK CHECK. <i>Matthew Spurs</i> <i>ABP 3039932</i>

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

12/01/06 Tach: 1937.04 ATT: 1937.04 ETSMOH: 374.6 ETSTOH: 38.11 N4736W

Complied with 100HR/Annual inspection in accordance with Commander, Lycoming service manual & FAR 43 (d). Check compression #1 80/80 #2 76/80 #3 76/80 #4 76/80 #5 76/80 #6 76/80. Check timing, ignition leads, cleaned, gapped and rotate sparkplugs, took oil sample for Lab. oil only has 10 Hrs. since last oil change, serviced and cleaned all fuel nozzles, complied with AD 2002-26-01 by visual inspection, washed engine and run for leak check; all AD's checked through this date, see complete historical records in back of this book

Matthew Speers
Matthew Speers
A&P 3039932

I certify this Engine has been inspected in accordance with an annual requirement and has been determined to be air worthy.

Norman E. Jalk
AP 264904486IA

DATE 19 _____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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3/15/07 TACH: 1945.68 N4736W

Drain oil take sample for Lab. cut filter for inspection, service engine with 8Qts. Aeroshell 15w 50 and new ES48103 filter, wash engine. Jack aircraft and performed gear retraction test and emergency extension test, check gear horn. Run engine for operational and leak check.


James Faith
A&P 3171275

DATE

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FLIGHTTOTAL
TIME IN

Description of Inspections, Tests, Repairs and Alterations

2/1/08 TACH: 1958.29 ETSTOH: 59.36 ETT: 395.86 N4736W

Complied with 100HR/Annual Inspection in accordance with Rockwell Commander 114 & Lycoming service manuals and FAR 43 (d). Check compression #1 78/80 #2 76/80 #3 76/80 #5 74/80 #6 75/80. Drained oil, take sample for Lab. cut filter for inspection, no particles found. Service engine with new ES48103 filter and 8 qts. aeroshell 15w 50 oil. Cleaned and reinstall Induction filter, installed M-20 air/oil separator Model # A-300 in accordance with installation instructions (see 337) Complied with AD 2002-26-01 by visual inspection, wash engine, run for operational and leak check. All AD's have been checked through this date see complete historical records in back of this book.

Matthew Speers
Matthew Speers
A&P 3039932

I Certify this Engine
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.

Norman E. Smith
AP 264904486IA

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

08/06/08 TACH: 2007.75 N4736W

Drain oil take sample for Lab. cut filter for inspection, serviced engine with new AA48103 filter and 8 qts. Aeroshell 15w 50 oil, wash engine and run for operational and leak check.


James Faith
A&P 3171275

DATE

RECORDING

TODAYS

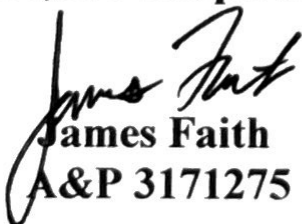
TOTAL

Description of Inspections, Tests, Repairs and Alterations

1'

03/10/09 Tach: 2040.91 ETSTOH: 141.98 ETSMOH: 478.48 N4736W

Complied with 100HR/Annual Inspection in accordance with Rockwell Commander 114 & Lycoming service manuals and FAR 43 (d). Check compression #1 76/80 #2 74/80 #3 74/80 #4 74/80 #5 74/80 #6 73/80. Check timing, cleaned gapped and rotate sparkplugs, replaced 10 ea. M-674 sparkplug gaskets, replaced 2 ea. RHM38E sparkplugs #4 & #5 bottom cylinders. Drained oil, take sample for Lab. cut filter for inspection. Serviced engine with 8 qts. Aeroshell 15w 50 oil and new AA48103 filter, complied with AD 2002-26-01 by visual inspection, wash engine run for operational and leak check, all Ad's have been checked through this date, see complete historical records in back of this book.


James Faith
A&P 3171275

I Certify this Engine
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


AP 2649044861A

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

09/1/09 TACH: 2071.55

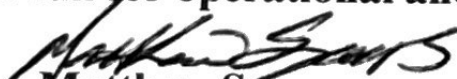
Drain oil take sample for Lab. cut filter for inspection, serviced engine with new ES48103 filter 8 QTS. Aeroshell 15w 50, wash engine and run for operational and leak check.


Matthew Speers
A&P 3039932

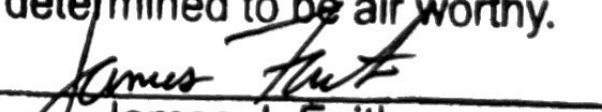
DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 _____				

04/07/10 TACH: 2092.47 ETSMOH: 478.48 N4736W

Complied with 100HR/ANNUAL inspection in accordance with Lycoming, Commander service manuals & FAR 43(d). Check compression #1 77/80 #2 74/80 #3 72/80 #4 74/80 #5 70/80 #6 72/80. Check timing, check ignition leads, cleaned all fuel nozzles, cleaned gapped and rotate sparkplugs, replaced 12 ea. M-674 sparkplug gaskets. Drain oil take sample for Lab. cut filter for inspection, serviced engine with 8 QTS. Aeroshell 15w 50 oil and New ES48103 filter. Installed new Induction filter P/N BA-4005, lubed all engine controls. Complied with AD 2002-26-01, AD 2008-14-07 by visual inspection. All other AD's have been checked through this date, see complete historical records in back of this book, wash engine and run for operational and leak check.


Matthew Speers
A&P 3039932

I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


James J. Faith
AP3171275IA

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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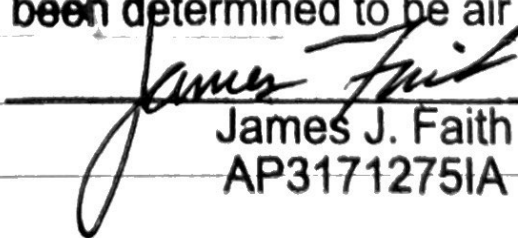
07/29/11 TACH: 2128.9 ATT: 2128.9 ETSTOH: 229.97 ETSMOH: 514.91

Complied with 100HR/Annual inspection in accordance with Lycoming, Commander service manuals and FAR 43(d) Check compression #1 76/80 #2 76/80 #3 75/80 #4 74/80 #5 72/80 #6 74/80. Drained oil take sample for Lab. cut filter for inspection. Serviced engine with 8 qts. Aeroshell 15w 50 oil and new 48103 filter. Checked timing, cleaned gapped and rotated sparkplugs, cleaned all fuel nozzles. Remove and replaced #2 cylinder fuel injector P/N LW18265. Complied with AD 2002-26-01 by inspection, AD 2008-14-07 by inspection, all other AD's have been checked through this date see complete historical records. Washed engine and run for operational and leak check.


Matthew Speers

A&P 3039932

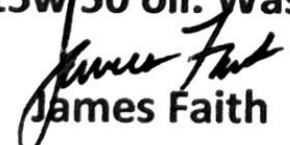
I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.

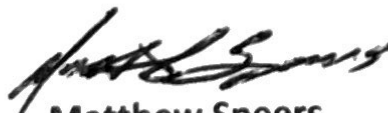
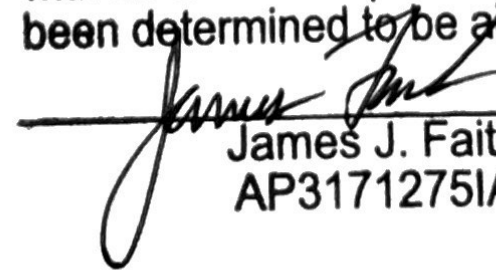

James J. Faith
AP3171275IA

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

05/01/12 TACH: 2157.46 N4736W

Drain oil take sample for lab. cut filter for inspection. Serviced engine with new 48103 filter and 8 qts. Aeroshell 15w/50 oil. Washed engine and run for operational and leak check.


James Faith
A&P 3171275IA

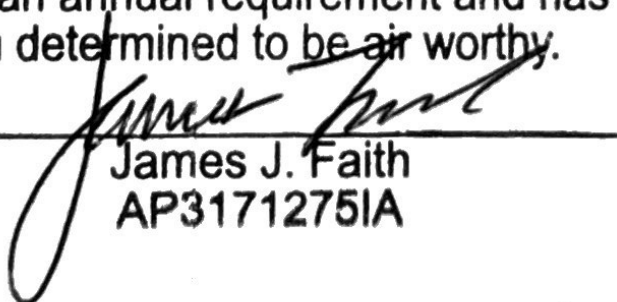
DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
19 04/01/13	12 TACH: 2159.6		ETSTOH: 260.67	ETSOH: 545.61 N4736W
<p>Complied with 100HR/Annual inspection in accordance with Lycoming, Commander service manual & FAR 43(d). Checked compression #1 76/80 #2 77/80 #3 73/80 #4 74/80 #5 70/80 #6 73/80. Drained oil and took sample for Lab. removed and inspected oil filter, no particles found. Serviced engine with 8 qts. Aeroshell 15w 50 oil and new 48103-1 filter. Checked timing, installed all new Sparkplugs 12 ea. RHM38E, serviced all fuel nozzles. Installed Turbo normalizing system in accordance with STC NO. SA00356DE, STC NO. SE00357DE and AC43-13.1b Installed AFM supplement, completed form 337. Washed engine and pre-oiled Turbo. Performed engine run up per section 14 of Turbo installation manual, no leaks noted. Complied with AD's 2002-26-01, AD 2008-14-07, AD 2011-26-04 by visual inspection. All other AD's have been checked through this date, see complete historical records.</p>				
<p> Matthew Speers A&P 3039932</p>				<p>I Certify this <u>ENGINE</u> has been inspected in accordance with an annual requirement and has been determined to be air worthy.  James J. Faith AP3171275IA 4/1/13</p>

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

05/01/14 TACH: 2206.0 ETSOH: 592.01 ETSTOH: 307.07 N4736W

Complied with 100HR/Annual inspection in accordance with Lycoming, Commander service manuals & FAR 43(d). Checked timing, cleaned gapped and rotated sparkplugs replaced 12 ea. M-674 sparkplug gaskets. Checked compression #1 76/80 #2 74/80 #3 75/80 #4 76/80 #5 72/80 #6 73/80. Drained oil take sample for Lab. cut filter for inspection, serviced engine with new 48103 filter and 8 qts. Aeroshell 15w 50 oil replaced Induction filter P/N BA-4005. Complied with AD's 2002-26-01, AD 2008-14-07, AD 2011-26-04 by visual inspections. All other AD's have been checked through this date, see complete historical records. Washed engine and run for operational and leak check.

I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


James J. Faith
AP3171275IA

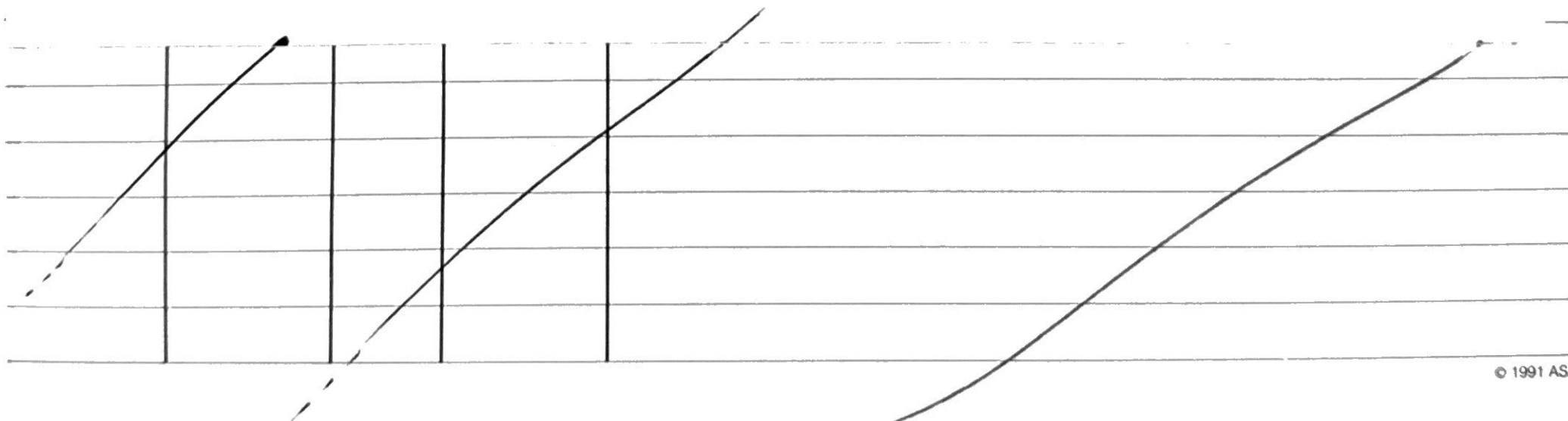
DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Lycoming IO-540-T4A5D Tach 2214.1 ETSTOH 315.2 Date: 06/19/15

1. Engine differential compression checked. Cylinder #1-80/80 #2-79/80n#3-75/80 #4-79/80 #5-70/80 #6-80/80.
2. Magnetos to engine timing checked okay.
3. Drained and replaced oil with 8 quarts of Aeroshell 15W50.
4. Cut oil filter, no metal noted. Replaced oil filter with new CH48103.
5. Replaced induction air filter with new PN BA-4005.
6. Removed, cleaned and tested spark plugs. Reinstalled with new gaskets.
7. Washed engine. Ops and leak okay.
8. I certify that this engine has been inspected I/A/W a 100HR inspection using the FAR 43 App D as guide and was determined to be in an airworthy condition.



Joel Ebersole A&P 2765211



DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Lycoming IO-540-T4A5D Tach 2239 ETSTOH 340.1 Date: 08/01/16

1. Engine differential compression checked. Cylinder #1-76/80 #2-75/80 #3-76/80 #4-76/80 #5-30/80 #6-77/80.
2. Removed and sent #5 cylinder for overhaul. Overhaul done by D&B Aircraft under W. O.16523. Reinstalled cylinder with new gaskets referring to Lycoming Overhaul Manual.
3. Magnetos to engine timing checked okay.
4. Drained and replaced oil with 8 quarts of Aeroshell 100.
5. Cut oil filter, no metal noted. Replaced oil filter with new CH48103.
6. Replaced induction air filter with new PN BA-4005.
7. Removed, cleaned and tested spark plugs. Reinstalled with new gaskets.
8. Replaced #6 cylinder fuel injector line with new PN LW12098-0-210.
9. Replaced #2 and #4 cylinder intake gaskets.
10. Replaced #4 cylinder intake tube with new PN 69603.
11. Washed engine. Ops and leak okay.

I certify that this engine has been inspected I/AW a 100 HR inspection using the FAR 43 App D as guide and was determined to be in an airworthy condition.


Joel Ebersole A&P 2765211

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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12/08/16 TACH: 2272.50 N4736W

Drain oil & remove oil filter, cut oil filter for inspection. Serviced engine with new CH48103 oil filter and 8 qts. Aeroshell 15w 50 oil. Washed engine and run for operational and leak check.

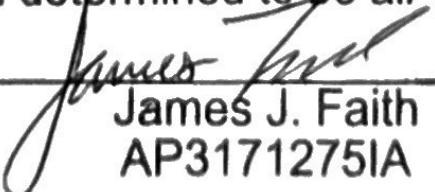
James Faust
A&P3171275

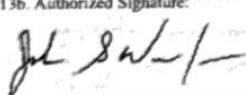
DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
19				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

05/16/18 TACH: 2273.6 ETSOH: 659.61 ETSTOH: 374.67 N4736W

Removed Propeller & Engine from Engine Truss for Overhaul by AWI (See 8130). Reinstall Engine Truss after Overhaul & Seal attach points with firewall sealant & replaced 5 ea. New Locknuts MS21045-6, reinstall engine reconnect & route all wires and ignition harness. Replaced 4 ea. Locknuts on Engine motor mounts P/N MS21045-7. Reinstall propeller & Torque bolts and safety wire in accordance with McCauley installation instruction & Commander service manual. Checked Timing & Ignition leads, cleaned Gapped and rotated sparkplugs, replace 12 ea. M-674 sparkplug gaskets. Replaced Fuel Hose assembly from transducer to throttle body with new P/N 11F417-4S0260 (see TSO cert.) replaced 3 in. Scat hose duct assembly for cabin heat, replaced 2 ft. MIL-6000 3/8 hose on intake duct. Checked Compression #1 76/80 #2 74/80 #3 75/80 #4 78/80 #5 72/80 #6 76/80 drained oil, cut filter for inspection. Service engine with new 48103 filter & 8 qts. Aeroshell 15w 50 oil, mouse milk wastegate. Complied with AD's 2002-26-01 by visual inspection, AD 2008-14-07 by visual inspection, AD 20011-26-04 by visual inspection, AD 2015-19-07 by visual inspection, see complete historical records. Washed engine and run for Operational and leak check.

I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


James J. Faith
AP3171275IA

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 4933008	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215					5. Work Order/Contract/Invoice Number: 2145537	
6. Item: 10	7. Description: HOSE	8. Part Number: R221249	9. Quantity: 12	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: AIRWORTHINESS APPROVAL - PARTS. PO#: 00959						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval/Authorization No.: ODA-100129-CE		14b. Authorized Signature		14c. Approval/Certificate No.:
13d. Name (Typed or Printed): JOHN S. WALTON		13e. Date (dd/mm/yyyy): 05/Feb/2016		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

FAA Form 8130-3 (02-14)

NSN: 0052-00-012-9005

bility

310D, 310E, 310F, 310G
 310E, 310F, and 310G
 210C, 210-5 (205), & 210-5A (205A)

5, K35, M35, N35, P35, 35-33, 35-A33, 35-3, and F33

5, V35A, V35B, 35-C33A, E33A, F33A, and

100 Series II

1-2A, BN-2A-6, BN-2A-8, BN-2A-9

A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, 35, G1A5, G1B5, G1C5, G1D5, G1E5, J4A5, C5, K1F5, L1A5, M1A5, P1A5, S1A5, and

Piper	Pa-24-250 Comanche Pa-24-260 Comanche	Piper	Pa-32-260 Cherokee 6 Pa-32R-300 Lance
Mooney	M20A-J	Cessna	180, 182
Rajay	All Rajay models on STC		

RJ1031

Grommet

FAA PMA Approved

RAJAY® Parts LLC

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Make Eligibility	Model Eligibility	Make Eligibility	Model Eligibility
Piper	Pa-23 and Pa-23-160	Cessna	310, 310B, 310C, 310D, 310E, 310F, 310G
Helio	H395	Cessna	310C, 310D, 310E, 310F, and 310G
Beechcraft	95, B95, B95A, D95A, and E95	Cessna	210, 210A, 210B, 210C, 210-5 (205), & 210-5A (205A)
Helio	H295	Aero Commander	500A
Cessna	310I and 310J	Beechcraft	Bonanza H35, J35, K35, M35, N35, P35, 35-33, 35-A33, 35-B33, 35-C33, E33, and F33
Cessna	310, 310B, 310C, 310D, 310E, 310F, 310G	Beechcraft	Bonanza S35, V35, V35A, V35B, 35-C33A, E33A, F33A, and F33C
Aero Commander	560E	Evangel	4500-300, 4500-300 Series II
Piper	Pa-34-200 Seneca	Britten Norman	Islander BN2, BN-2A, BN-2A-6, BN-2A-8, BN-2A-9
Piper	Pa-24-400 Comanche	Lake	LA-4, LA-4-4A
Piper	Pa-23-235 and Pa-23-250	Lake	LA-4-200
Piper	Pa-23-250 and Pa-E23-250, S/N 27-2505 and subsequent	Lycoming	IO-540-A1A5, B1A5, B1B5, B1C5, C1B5, C1C5, C2C, C4B5, C4C5, E1A5, E1B5, G1A5, G1B5, G1C5, G1D5, G1E5, J4A5, K1A5, K1B5, K1C5, K1F5, L1A5, M1A5, P1A5, S1A5, and K1E5
Piper	Pa-30 and Pa-39 Twin Comanche	Piper	Pa-32-260 Cherokee 6
Piper	Pa-24-250 Comanche Pa-24-260 Comanche	Piper	Pa-32R-300 Lance
Mooney	M20A-J	Cessna	180, 182
Rajay	All Rajay models on STC		

19	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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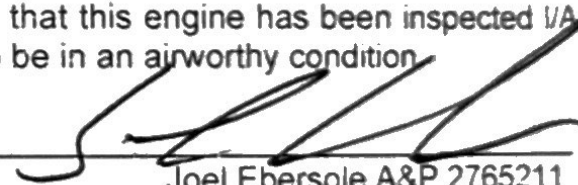
Lycoming IO-540-T4A5D

TACH and TT 2363.1

07-June-19

1. Cylinder compressions are as follow - #1 -73/80 # 2 -68/80 #3 -73/80 #4 -75/80 #5 -74/80 #6 -73/80
2. Magnetos to engine timing checked out okay.
3. Replaced air filter with new PN BA-4005.
4. Replaced all exhaust gaskets and several exhaust studs.
5. Adjusted RPM to under redline.
6. Cleaned fuel injectors and strainer.
7. Replaced fuel injector grommets with new 12 each PN RJ1031.
8. Drained and replaced oil with 8 quarts of Philips AD100.
9. Cut oil filter, no metal noted. Replaced oil filter with new 48103-1.
10. Removed, cleaned and tested spark plugs. Reinstalled with new gaskets.
11. I certify that this AC has been inspected IAW the following ADs and was found to be in an airworthy condition:
 1. AD 2015-19-07 by visually inspecting fuel lines per SB 342G. No defects noted. Next due at 2463.1 hrs.
12. Washed engine. Ground ops and leak okay.

Work done referring to LYCO OI-540 Engine Maintenance Manual. I certify that this engine has been inspected IAW a 100 HR inspection using the FAR 43 App D as guide and was determined to be in an airworthy condition.


 Joel Ebersole A&P 2765211
 A&E Aviation - Ruston, LA

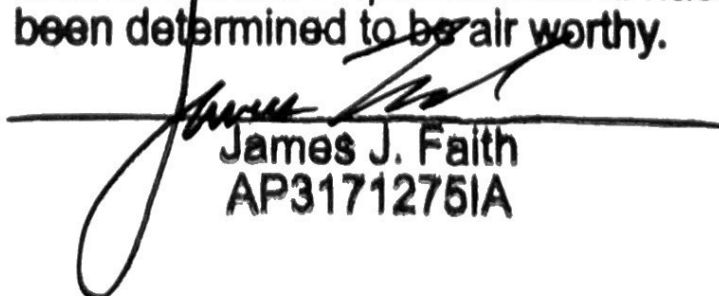
DAT

19_

08/12/2020 TACH: 2349.8 ETSOH: 735.81 N4736W

Complied with 100HR/Annual Inspection in accordance with Lycoming, Commander service manual & FAR 43(d). Checked Timing, cleaned gapped and rotated sparkplugs replaced 11 ea. M-674 sparkplug gaskets, cleaned all Fuel injectors. Checked Compression #1 78/80 #2 76/80 #3 73/80 #4 78/80 #5 77/80 #6 76/80. Drained oil take sample for Lab. cut filter for inspection, removed bad oil quick drain and install new SAF-AIR oil drain P/N P5000 and safety wire, removed suction screen and cleaned, reinstall suction screen with new crush gasket and safety wire. Serviced engine with new 48103 filter and 8 ea. Aeroshell 15w 50 oil, mouse milk wastegate, replaced Induction filter P/N BA-4005, replaced Alternator belt with new P/N 37A19773-376 and set belt to proper tension. Complied with AD's 2002-26-01, AD 2008-14-07, AD 2011-26-04, AD 2015-19-07 by visual inspection, see complete historical records. Washed engine and run for operational and leak check.

I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


James J. Faith
AP3171275IA

04/01/2022

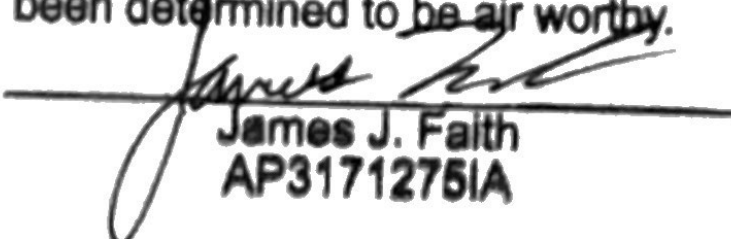
TACH: 2382.3

ETSOH: 768.31

N4736W

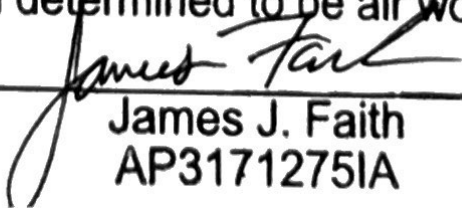
Complied with 100HR/Annual Inspection in accordance with Lycoming, Commander Service manual & FAR 43(d). Checked Timing, cleaned gapped & rotated sparkplugs replaced 11 ea. M-674 sparkplug gaskets, cleaned all Fuel injectors. Checked Compression #1 77/80 #2 76/80 #3 76/80 #4 75/80 #5 78/80 #6 77/80. Drain oil take sample for Lab. cut filter for inspection, remove suction screen & cleaned reinstalled suction screen with new crush gasket & safety wire. Serviced engine with new 48103 oil filter & 8 ea. Aeroshell 15w 50 oil, replaced Induction filter P/N BA-4005, complied with AD's 2002-26-01 by inspection, AD 2008-14-07 by inspection, AD 2011-26-04 by inspection, 2015-19-07 by inspection, see complete historical records. Washed engine and run for operational & leak check.

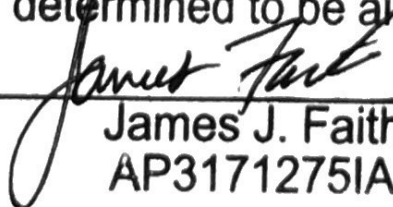
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AP3171275IA

Complied with 100HR/Annual Inspection in accordance with Lycoming, Commander Service manual & FAR 43 (d). Cleaned tested gapped & rotated Sparkplugs, replaced 11 ea. M-674 Sparkplug gaskets, cleaned all fuel nozzles. Removed Magneto and send out for inspection, internally time Magneto and reinstalled magneto with new Magneto gasket after 500 HR inspection,(see 8130) timed Magneto to engine. Remove entire exhaust system and removed #4 cylinder and send out for overhaul, remove #4 cylinder Rod assembly and send out for inspection. Reinstalled Rod assembly, (see yellow tag) with new Rod bearing P/N SL13521A, 2 ea. new Rod bolts P/N AEL75061, 2 ea. new Rod nuts P/N SL12186. Reinstalled #4 Cylinder assembly after overhaul from Gibson (see 8130) Installed new Hi-temp Rocker cover gaskets on #2, #4 cylinders P/N RG-75906, installed 1 ea. new Exhaust Stud on #6 cylinder P/N 31C-12. Reinstall Exhaust system with new 6 ea. new blow proof gaskets P/N 77611 & 12 ea. new exhaust nuts P/N STD-1410, installed new Turbo exhaust gasket 1 ea. P/N SA636465, installed 4 ea. new Turbo bolts P/N AN6C13A & mouse milk Turbo wastegate. Installed 1 ea. new CHT Probe #2 cylinder P/N 1260, Installed new EGT Probe #2 cylinder P/N M-111, installed new CHT probe #4 cylinder P/N M-113. Installed new Oil Bypass valve P/N SL53E19600, installed new oil pressure spring P/N 61084, installed new Oil pressure Ball assembly P/N 1028-B and set Oil pressure in accordance with Lycoming service manual. Drained oil & cut filter for inspection, removed suction screen and cleaned, reinstalled suction screen with new crush gasket & safety wire. Serviced engine with new 48103 filter & 8 qts. Aeroshell 15w 50 oil. Replaced Induction filter P/N BA-4005, complied with AD's 2002-26-01 by inspection, AD 2008-14-07 by inspection, AD 2011-26-04 by inspection, AD 2015-19-07 by inspection, see complete historical records. Washed engine and run for operational & leak check.

I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


James J. Faith
AP3171275IA

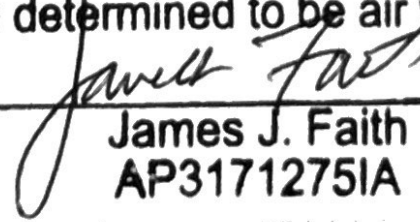
DATE	RECORDING	TODAYS	TOTAL	Description of Inspections, Tests, Repairs and Alterations
19__	04/08/2024	TACH: 2424.0	ETSOH: 810.1	N4736W
<p>Complied with 100HR/Annual Inspection in accordance with Lycoming, Commander service manual & FAR 43(d). Cleaned test gapped & rotated sparkplugs, replaced 11 ea. M-674 sparkplug gaskets, cleaned all fuel nozzles. Checked Timing, test ignition leads, check compression #1 74/80 #2 75/80 #3 75/80 #4 74/80 #5 73/80 #6 74/80. Drain oil take sample for Lab. cut filter for insepction, removed suction screen & cleaned reinstalled suction screen with new crush gasket & safety wire. Serviced engine with new 48103 oil filter, 7 1/2 qts. Aeroshell 15w 50 oil & 1 pint Camguard, replaced Induction filter P/N BA-4005. Remove old oil pressure relief valve & install new Oil Pressure Relief valve P/N SL77808 & safety wire. Complied with AD's 2002-26-01 by inspection, AD 2008-14-07 by inspection, AD 2011-26-04 by inspection, AD 2015-19-07 by inspection, see complete historical records. Washed Engine and run for operational and leak check, also set & adjust oil pressure on new Oil pressure relief valve.</p> <p>I Certify this <u>ENGINE</u> has been inspected in accordance with an annual requirement and has been determined to be air worthy.</p> <p> James J. Faith AP3171275IA</p>				

DATE 19____	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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05/08/2025 TACH: 2433.0 ETSOH: 819.1 N4736W

Complied with 100HR/Annual Inspection in accordance with Lycoming, Commander service manuals & FAR 43(d). Performed compression check #1 75/80 #2 76/80 #3 74/80 #5 74/80 #6 73/80 checked Timing, test ignition leads, cleaned test gapped & rotated sparkplugs, cleaned all Fuel Nozzles & replaced 11 ea. M-674 sparkplug gaskets. Drained oil, removed Filter and cut for inspection. Serviced engine with new 48103 filter, 7 1/2 Qts. Aeroshell 15w 50 oil & 1 pint Cam Guard, replaced Induction filter BA-4005. Complied with AD's 2002-26-01 by Inspection, AD 2008-14-07 by inspection, AD 2011-26-04 by inspection, AD 2015-19-07 by inspection, see complete historical records. Washed Engine and run for operational and leak check.

I Certify this ENGINE
has been inspected in accordance
with an annual requirement and has
been determined to be air worthy.


James J. Faith
AP3171275IA