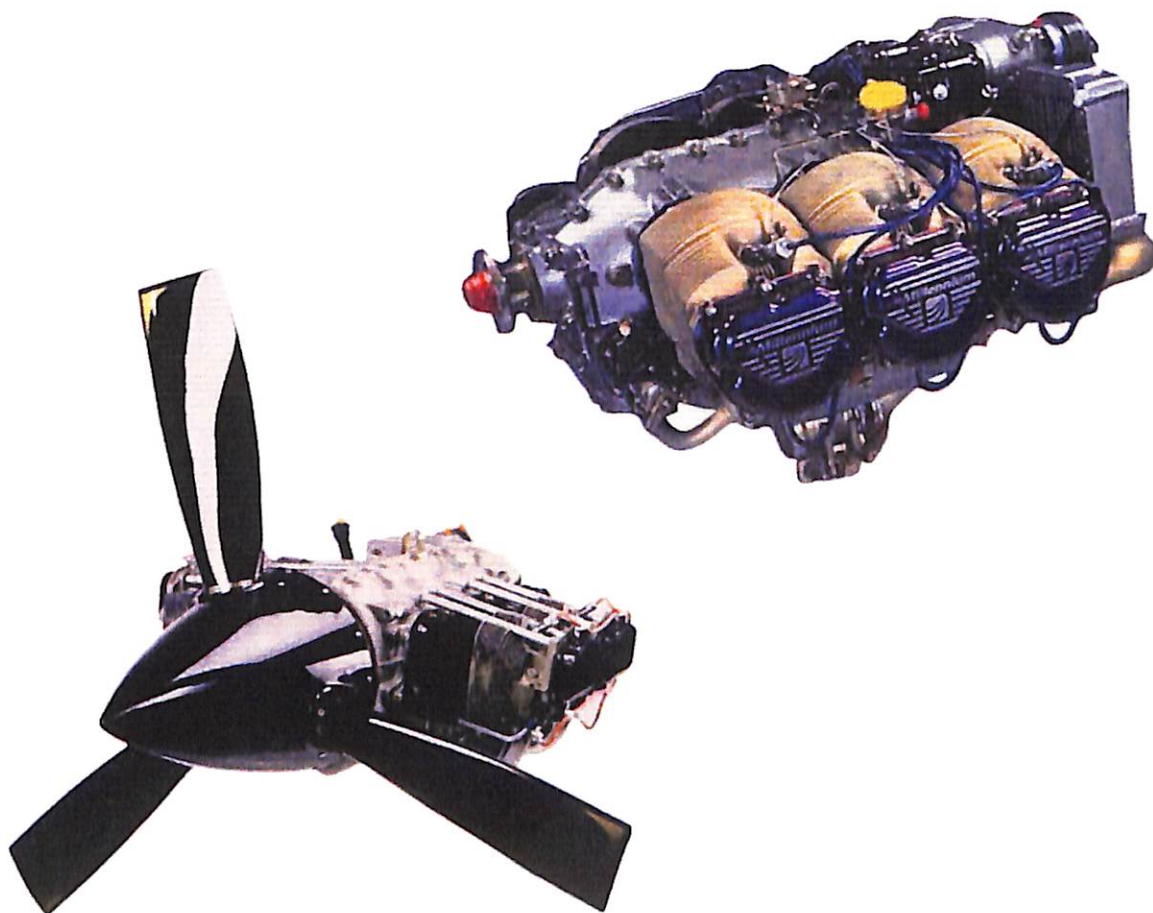


ENGINE MAINTENANCE RECORDS



Shipping Address: 2505 W. Broadway, Collinsville, OK 74021 ■ Mailing Address: P.O. Box 582453, Tulsa, OK 74158-2453
Toll Free 888 371-1371 ■ 918 371-3000 ■ FAX 918 371-3041 ■ Look us up at www.overhaul.com ■ E-Mail: info@overhaul.com
FAA Certified Repair Station IAXR223L

LIMITED WARRANTY

To: KUSA AVIATION Aircraft:
Model: IO-360-A1A Registration:
Serial Number: L-3569-51A Tach or Hobbs: 3095.6
Work Order: 623061 Date of Overhaul: 11-10-2023

AMERICA'S AIRCRAFT ENGINES, INC. warrants this engine to be free from defects in materials and workmanship by America's Aircraft Engines, Inc. for TWELVE (12) months or 500 hours, whichever occurs first. Accessories will be warranted by respective vendors.

This engine, excluding accessories, is further warranted to be free from defects in materials furnished by America's Aircraft Engine's, Inc. until T.B.O. on a pro-rated basis on parts. For the purpose of calculating pro-ration, a minimum of 40 hours per month from the date of overhaul will apply. Replacement or repair of engine, component, or parts under this Limited Warranty will not extend the warranty period. Installation or removal costs are excluded under pro-rated portion. Cracked cylinders and cracked crankcases excluded from all warranty unless it can be determined that they are a direct result of improper assembly.

To exercise this Limited Warranty, America's Aircraft Engines, Inc. must be promptly notified of the discovery of any defect or failure by call or letter fully describing such defect or failure to:

America's Aircraft Engines, Inc.
PO Box 582453, Tulsa, OK 74158
918-371-3000

All warranty work is to be accomplished in Collinsville, Oklahoma by America's Aircraft Engines, Inc. unless approval is granted in writing by America's Aircraft Engines, Inc. for work to be accomplished elsewhere or by anyone else, prior to commencement of such work. America's Aircraft Engines, Inc. reserves the right to furnish any or all parts thereof.

America's Aircraft Engines, Inc. is not responsible for any consequential loss associated with any failure or defect under this Limited Warranty and no allowance will be made for down time, loss of use, hotel, freight, transportation or any other incidental expense directly or indirectly associated with such defect or failure.

This Limited Warranty is expressly in lieu of all warranties and representations, expressed or implied in fact or by law including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. The work to which this Limited Warranty applies is deemed to have been accomplished in Collinsville, Oklahoma and in the event of a dispute on this Limited Warranty, the laws of the State of Oklahoma shall apply and any litigation shall be maintained only in the State of Oklahoma in a court of Competent Jurisdiction.

This Limited Warranty gives you specific rights and may be transferred only by express permission in writing by America's Aircraft Engines, Inc.

Stephen D. Jensen

ENGINE
MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N523MW

Engine Manufacturer _____

Model IO-360-A1A

Serial No. L-3569-51A

Date installed on aircraft Mar/18/2024

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

- ☐ Right ☐ Left
☐ Front ☐ Rear

(All applicable information must be filled in)

N523MW

LOG 2

The Standard



ENGINE LOG



VAAYU Aero Maintenance

West Houston Airport
18000 Groeschke Rd.
Houston, TX 77084



DATE: 06/28/2022 N523MW TACH: 2976.77 SMOH: 1038.67

POWERPLANT ANNUAL INSPECTION

WORK PERFORMED:

COMPRESSION CHECK: 1/69, 2/74, 3/65, 4/77

- CHANGED OIL AND FILTER PN#AA48108-2 AND SAFETIED. SERVICED ENGINE WITH 5 QTS OF AEROSHELL 100W DETERGENT OIL. WASH, RUN, AND LEAK CHECKED OK.
- REMOVED, CLEANED, AND RECHARGED INTAKE AIR FILTER.
- INSPECTED, CLEANED, GAPPED, TESTED, AND ROTATED SPARK PLUGS.
- INSPECTED INTAKE AND EXHAUST SYSTEMS.
- REMOVED, CLEANED, INSTALLED, AND LEAK CHECKED INJECTORS.
- C/W AD 2015-19-07 FUEL INJECTOR LINES/CLAMPS BY INSPECTION. DUE EVERY 110HRS/ANNUAL.
- ADJUSTED IDLE RPM TO 750-800.
- REINSTALLED MUFFLER AFTER REPAIR BY AERO STRUCTURAL SERVICES FAA CRS F8VR2340.
- REPLACED #2 CYLINDER PUSHROD SLEEVE, SEAL, AND VALVE COVER GASKET.
- REPLACED #4 CYLINDER OIL RETURN TUBE WITH NEW PN#73027.
- REPLACED #2 BOTTOM PLUG WITH NEW PN#UREM38S.
- REPLACED #1 CYLINDER INTAKE GASKET WITH NEW PN#71973.
- Researched AD's BIWEEKLY 2022-11(Summary Provided)



I certify that this ENGINE has been inspected in accordance with an Annual Inspection, PER 14 CFR 43 APPENDIX D and was determined to be in an airworthy condition.

Details on file at VAAYU Aero Maintenance under WO# 31313
FAA Certified Repair Station

No. GK2R118E signed

James E. Platt

INS, TESTS, REPAIRS AND ALTERATIONS
I NAME, RATING AND CERTIFICATE NUMBER OF
EE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2022 9/15/22				<div>   </div> <p>VAAYU Aero Maintenance West Houston Airport 18000 Groeschke Rd. Houston, TX 77084</p> <p>DATE: 09/15/2022 N523MW TACH: 3008.14</p> <p>WORK PERFORMED: COMPRESSION CHECK: 1/75, 2/72, 3/12, 4/76</p> <ul style="list-style-type: none"> CHANGED OIL AND FILTER PN#AA48108-2 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF AERO SHELL 100 MINERAL OIL. WASH, RUN, AND LEAK CHECKED. NO LEAKS NOTED. REPLACED #3 CYLINDER WITH NEW P#IO-360-A1A. <p>I certify that the work performed was carried out in accordance with 14 CFR Part 43.9 and paragraph (b) of 14 CFR Part 43, Appendix B and was determined to be in an airworthy condition. Details on file at VAAYU Aero Maintenance under WO#31442 FAA Certified Repair Station</p> <p>No. GK2R118E signed <i>J. Duran</i></p>
10/7/22	3037.8			<p>OIL CHANGE</p> <p>SMOH: 1090</p> <p>CHANGED OIL FILTER AND OIL</p> <p>OIL: Phillips Vicory 20W-50 FILTER: AA48108-2</p> <p>29.7 HRS ON BREAK-IN CYLINDER MINERAL OIL</p> <p>ADDED 6 QTS OIL</p> <p>- JON DURAN <i>J. Duran</i></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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				CHECKED ENGINE TIMING, CHECKED ALL LINES AND HOSES I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHY CONDITION. Zach T. Mason AEP 3016487 JA

Calkins Aero Service Inc.

West Houston Airport
18000 Groeschke Rd.
Houston, TX 77084

DATE: 10/04/2021 N523MW TACH: 2910.41

WORK PERFORMED:

- CHANGED OIL AND FILTER PN#AA48108-2 AND SAFETIED. SERVICED ENGINE WITH 7 QTS OF PHILLIPS 20W50 X/C AVIATION OIL. WASH, RUN, AND LEAK CHECKED OK.

I certify that the work performed was carried out in accordance with 14 CFR Part 43.9 and paragraph (b) of 14 CFR Part 43, Appendix B and was determined to be in an airworthy condition.

Details on file at Calkins Aero Repair Station under WO# 30827

Calkins Aero Service Inc.

FAA Certified Repair Station

No. GK2R849K

signed

Don Z

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				<p><u>Calkins Aero Service Inc.</u> West Houston Airport 18000 Groeschke Rd. Houston, TX 77084</p> <p>DATE: 11/12/2021 N523MW TACH: 2921.13</p> <p>WORK PERFORMED: ENGINE</p> <ul style="list-style-type: none"> REPLACED #2 CYLINDER OIL RETURN LINE FLARED FITTING WITH NEW PN#MS20823-6D. <p>I certify that the work performed was carried out in accordance with 14 CFR Part 43.9 and paragraph (b) of 14 CFR Part 43, Appendix B and was determined to be in an airworthy condition.</p> <p>Details on file at Calkins Aero Repair Station under WO# 30857</p> <p>Calkins Aero Service Inc. FAA Certified Repair Station No. GK2R849K</p> <p>signed <i>Don Z</i></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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				March 5 2020
				Replaced #2 #3 Cylinder Auto low
				compression. All work performed per Lycoming Service
				Engine Service - Return to Service. 914.9 smoh
				Engine Ran No Problems.

wo: NMA_WO-437

Engine - page 2 of 2



New Mexico Aero Service LLC. - (505)307-3918

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with New Mexico Aero Service LLC. under work order: NMA_WO-437.

Fernando Nunez IA/AP 2749192

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

wo: NMA_WO-437

Airframe - page 2 of 2



New Mexico Aero Service LLC. - (505)307-3918

10. Lycoming AD 2017-16-11 Connecting rod small end bushing - N/A per (c)(1) S/N not listed on SB632B Table 1.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with New Mexico Aero Service LLC. under work order: NMA_WO-437.

Fernando Nunez IA/AP 2749192

5-18-21 TACH 2899 IT 2899 CHECKED
ALL ENGINE CONTROLS AND STOPS
LUBED AS NEEDED COMPRESSION
TEST 1) 70/80 2) 75/80 3) 74/80
4) 72/80 CHANGED OIL AND OIL
FILTER CUT OLD FILTER NO METAL
FOUND IN FILTER. CLEANED GAPPED
AND ROTATED ALL SPARK PLUGS

AFIT 2699. Engine 760.9 WA 1/18/2018 PROP 750.9

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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New Mexico Aero Service LLC
Licensed - General

New Mexico Aero Service LLC. • (505)307-3918

January 18, 2018

N523MW

Lycoming, O-360, S/N: 0 L-3569-S1A

Tach: 2699.0

TTSN (Tach): 2699.0

SMOH (Tach): 760.9

1. Performed Annual inspection per Title 14CFR chapter 43, appendix D. I certify that this engine has been inspected IAW annual inspection and was determined to be in an airworthy condition.
2. Compression test results: 1-74/80, 2-72/80, 3-78/80, 4-70/80 psi. All airworthy.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with New Mexico Aero Service LLC. under work order: NMA_WO-148.

Fernando Nunez IA/AP 2749192

[Signature]

Engine

wo: NMA_WO-148

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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wo: NMA_WO-272

Engine - page 1 of 1



New Mexico Aero Service LLC
Licensed - General

New Mexico Aero Service LLC. • (505)307-3918

N523MW

Lycoming, O-360, S/N: 0

February 1, 2019

Tach: 2772.0

TTSN: 2772.0

SMOH: 833.9

1. Performed Annual inspection per Title 14CFR chapter 43, appendix D. I certify that this engine has been inspected IAW annual inspection and was determined to be in an airworthy condition.
2. Compression test results: 1-76/80, 2-70/80, 3-74/80, 4-78/80 psi. All airworthy.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with New Mexico Aero Service LLC. under work order: NMA_WO-272.

Fernando Nunez IA/AP 2749192

[Signature]

6/23/19				Changed oil + filter. installed a New oil filter ADDED 6qts of Phillips 2050 + 1 Pint of Cam Guard
				Tach Time 2794

22 hrs on oil

ENGINE


Performed a 100 hour inspection IAW Carson Aviation Services Annual/100-Hour checklist which meets FAR 43 appendix D. Drained oil and refilled crankcase with Aeroshell 15W-50 oil. Removed, cut and inspected filter, no problems noted. Timing and compression check okay. Compression 1-72, 2-74, 3-69, 4-73. Cleaned gaped inspected and reinstalled spark plugs.


Troy Creeks A&P3674511IA

C/W AD 11-26-04 Fuel injector lines by inspection next due 2736.2


Troy Creeks A&P3674511IA

I certify that this engine was inspected IAW a 100 hour inspection and was found to be in an airworthy condition.


Troy Creeks A&P36745111A

INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
ORDERED WITH NAME, RATING AND CERTIFICATE NUMBER OF
FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

698.14 TTS mon

[illegible]

DATE 2014	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
11-10	2618.21	670.14	670.14	TIME SINCE 670.14, 100HR INSP FOR ANNUAL CHECKED AD'S 2011-26-04 NO DEFECTS comp-CHECK #1 77 #2 76 #3 78 #4 78, CLEANED, AND ROTATED PLUGS, CHECKED TIMING, CHECKED AND CLEANED SERVO STRAINER.
				I CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 HR ANNUAL</u> INSPECTION AND IS DETERMINED TO BE AIR WORTHY <u>R. Timmair IA1439557</u>
11-10-2015			689.14	TACH-100HR INSP FOR ANNUAL. C/W AD RECORD 94-28-11 AND 85-24-03. C/W AD 2015-19-07 ON FUEL LINES PER LYC S/R 342 G. NO DEFECTS. comp #1 79/80 #2 78/80 #3 78/80 #4 78/80, CHECKED FUEL SCREEN AND SERVO SCREEN BOTH CLEAN CHECKED TIMING & PLUGS. AMP OPS. CHECK -> NEXT

DATE 2015	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	2627		689.14	I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL/100HR INSP AND IS APPROVED FOR RETURN TO SERVICE <u>R. Timmair IA1439557</u>
Nov. 10-15 2015	2627		689.14	OIL + FILTER CHANGED + AIR CLEANER SERV. BY OWNER R. Timmair IA138313

S/N: L-3569-51A
S/N: 670013
ACTT: 2562.34 Hrs
TSO: 614.54 Hrs

Maintenance Performed:

- Complied with **Annual Inspection** using Crownair Aviation Annual / 100 Hour Inspection Checklist, Form CA 105.
- Compression checks as follows: #1. 76/80 #2. 70/80 #3. 74/80 #4. 74/80
- Changed oil and filter. Serviced with 8 Qts of Aeroshell 15W-50 oil and installed new CH48108-1 oil filter. Washed engine.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Complied with **AD 2011-26-04** by inspection of fuel injector fuel lines and clamps I/A/W **Lycoming MSB 342F** and no defects noted at this time. Due again @ 2662.34 Hrs Tach or November 2013 whichever occurs first.
- **AD 2012-03-06** is N/A due to no work done on the fuel servo after May 20, 2010.
- **AD 2012-19-01** is N/A due to engine model and crankshaft serial number.
- Removed left magneto and performed 500 Hr inspection. Installed new points P/N 10-382585 and new distributor gear kit P/N ES10-357584. Reinstalled mag using new gasket P/N 62224 and timed to engine. Ground run and mag check is good.
- Retimed right mag to 25 degrees BTDC.
- Removed induction air filter, cleaned and serviced I/A/W K&N Instructions and reinstalled.
- Gained access to #1 induction tube by dropping right side exhaust system. Removed loose induction tube and surfaced mounting flange. Reinstalled using new gasket and o-ring. Tube checks good.
- Replaced all spark plugs with customer supplied spark plugs.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-12-05937.

J. M. J. J.
Authorized Representative

[illegible]

2017

Donald E. Ruchow

DATE 9/17/10 TIME IN SERVICE 2469.29
I CERTIFY THAT THIS ENGINE
HAS BEEN INSPECTED IN ACCORDANCE
WITH A 100 HR. / ANN OOL
INSPECTION AND DETERMINED TO BE
IN AIRWORTHY CONDITION THIS DATE
SIGNATURE Don E. Fowler
(CERTIFICATE NO. 311365811 TA)

#6.
Donald E. Poucher
Donald E. Poucher

DATE 2011 17	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
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DATE 10/01/11 TIME IN SERVICE 2511.31
I CERTIFY THAT THIS ENGINE
HAS BEEN INSPECTED IN ACCORDANCE
WITH A 100 HR / ANNUAL
INSPECTION AND DETERMINED TO BE
IN AIRWORTHY CONDITION THIS DATE
SIGNATURE Danell E. Pouch
CERTIFICATE NO. 311368811 IA

3 FEB	2543.80
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2012

CHANGED OIL, ADDED 8 QTS, AEROSHELL 15W50

CHANGED AIRWOLF OIL FILTER

ADDED 802 CAM GUARD

RMort - owner 2138313

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 ENTRIES.)
Don Maxwell Aviation Services, Inc. ENGINE MODEL: IO-360 A1A ENGINE S/N: L-3569-51A REG. NO: N523MW WORK ORDER: 1021-07-2008 390 Central Road Longview, Tx 75603 Phone: 903-643-9902				DATE: 7/17/2008 A/C TSN: 2252.68 ENG TT: 2252.68 TSMOH: 304.88 TACH: 2252.68
Engine Entries (3) Checked compression: 1) 74, 2) 76, 3) 75, 4) 73. Cleaned & gapped plugs. Serviced injectors. Check mag timing & security. Change oil & filter.... (12) AD02-26-01 Fuel Injection line, Complied with by inspection and replacement of the large adel clamps.... (15) AD 2008-06-51 Precision Airmotive LLC Fuel Injection Servo Plug complied with by inspection of Servo Plug and found to be secure.... (26) Secured inner baffling hardware after chasing threads and installing new nuts on #1-#3 cylinder.... (27) Gained access to starter and replaced missing hardware mounting starter to engine.... (28) Tightened and saftied engine dipstick tube.				
I certify this engine has been inspected in accordance with a 100 hr. inspection and found in an airworthy condition. Don Maxwell A&P 1784050				
DATE: 7/17/2008		SIGNED: <i>Da P. Maxwell</i>		Work Order: 1021-07-2008 Printed by EBis 3 (datcomedia.com)
Don Maxwell Aviation Services, Inc. ENGINE MODEL: IO-360 A1A ENGINE S/N: L-3569-51A REG. NO: N523MW WORK ORDER: 1122-01-2009 390 Central Road Longview, Tx 75603 Phone: 903-643-9902				DATE: 1/20/2009 A/C TSN: 2270 ENG TT: 2270 TSMOH: 322.2 TACH: 2270
Engine Entries (1) Checked compressions, #1) 75, #2) 70, #3) 73, #4) 76.				
Don Maxwell A&P 1784050				
DATE: 1/20/2009		SIGNED: <i>Da P. Pouch</i>		Work Order: 1122-01-2009 Printed by EBis 3 (datcomedia.com)

DATE 2009 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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
AUGUST 01, 2009 Engine Total Time 2378.20 Hours (TACH: 2378.20) with 430.40 S.M.O.H. Performed compression check; #1 70/80, #2 70/80, #3 65/80, #4 71/80. Checked exhaust system for leaks. Cleaned, gapped and rotated spark plugs. Checked engine controls for security and freedom of movement. Checked magneto timing. Drained oil and checked oil filter and screen for foreign matter - none found. Installed new Kelly ES48108-1 oil filter and added 8 quarts of Aeroshell 100W oil. All AD notes checked and complied with - see listing in rear of Airframe Log Book #2.				<i>Donald E. Pouch</i> Donald E. Pouch 311368811 A&P
<div style="border: 2px solid red; padding: 5px;"> DATE 8/1/09 TIME IN SERVICE 2378.20 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR / ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION THIS DATE SIGNATURE <i>Donald E. Pouch</i> CERTIFICATE NO. 311368811 IA </div>				

DAT

19

ENGINE MODEL: IO-360
A1A
ENGINE S/N: L-3569-51A
REG. NO: N523MW
WORK ORDER:
640-06-2006

Don Maxwell Aviation Services, Inc.
390 Central Road - East Texas Regional Airport
Longview, Texas 75603
Phone: 903-643-9902

DATE: 6/14/2006
A/C TSN: 2178
ENG TT: 2178
TSMOH: 230.2
TACH: 2178

INS
NUMBER OF
ENTRIES.)

Engine Entries

(3) Checked compression. Cleaned & gapped plugs. Serviced injectors. Check mag timing & security. Change oil & filter.... (9)
AD02-26-01 Fuel Injection line, Complied with by inspection... (27) Induction tubes on #1,2 & 4 leaking. Resecured tubes and sealed
with RTV. Tubes may need replacement

I certify this engine has been inspected in accordance with a 100 hr. inspection and found in an airworthy condition. Don Maxwell A&P 1784050

DATE: 6/14/2006

SIGNED: 

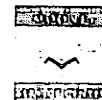
Work Order: 640-06-2006

Printed by EBis 3 (datcomedia.com)

DA

19

ENGINE MODEL: IO-360
A1A
ENGINE S/N: L-3569-51A
REG. NO: N523MW
WORK ORDER:
733-11-2006



Don Maxwell Aviation Services, Inc.
390 Central Road - East Texas Regional Airport
Longview, Texas 75603
Phone: 903-643-9902

DATE: 11/15/2006
A/C TSN: 2202.48
ENG TT: 2202.48
TSMOH: 254.68
TACH: 2202.48

INS
NUMBER OF
ENTRIES.)

Engine Entries

(1) Removed left mag, found capacitor ground strap had been soldered on at an angle and was grounding inside of cap. Replaced capacitor, reinstalled mag. Ops check good... (2) Removed exhaust system. Replaced old style intake tubes with new style using new gaskets & seals. Install exhaust.... (4) Change oil with 8 qts Aeroshell 100W and Champion CH48109-1 Filter with oil sample taken.

Don Maxwell A&P 1784050

DATE: 11/15/2006

SIGNED: 

Work Order: 733-11-2006

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360
A1A
ENGINE S/N: L-3569-51A
REG. NO: N523MW
WORK ORDER:
850-07-2007



Don Maxwell Aviation Services, Inc.
390 Central Road - East Texas Regional Airport
Longview, Tx 75603
Phone: 903-643-9902

DATE: 7/18/2007
A/C TSN: 2227.21
ENG TT: 2227.21
TSMOH: 279.41
TACH: 2227.21

Engine Entries

(3) Checked compression #1-63, #2-64/56, #3-65/56, #4-66/60. Cleaned & gapped plugs. Serviced injectors. Check mag timing & security. Change oil with 8 qts Aeroshell 100W & Champion CH48108-1 filter.... (10) AD 02-26-01 Fuel line inspection. Complied

I certify this engine has been inspected in accordance with a 100 hr. inspection and found in an airworthy condition. Don Maxwell A&P 1784050

DATE: 7/18/2007

SIGNED: 

Work Order: 850-07-2007

Printed by EBis 3 (datcomedia.com)

DATE <u>2005</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
<u>4-6-05</u>	<u>Tach</u>	<u>2117.26</u>		<u>Removed Engine IO-360-A1A s/n L-3569-51A</u> <u>From APC N523MW for Service.</u> <u>Phoebe Bailey APP219488994</u>
<u>5-3-05</u>				<u>REPLACED CRACKED CASE WITH NEW SUPERIOR AIR PARTS,</u> <u>INC. CRANKCASE AND STD ASSY. PN 5L36800-1W11. INSTALLED NEW MAIN</u> <u>BRGS P/N 5L13884 M03 AND 5L16711 M03, NEW PISTON COOLING NOZZLES PN</u> <u>73772, SEALS, CASKETS AND O-RINGS. LOG BOOK TIME TO CONTINUE.</u>
				Pertinent details of the repair are on file at this agency under work order No. <u>021678</u> Date <u>MAY 3 '05</u> Signed <u>Scott J. Smith</u> for Columbia Aircraft Services, Inc. Bloomsburg, Penna. FAA R.S. JM2R930K

DATE <u>10</u> <u>2005</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
<u>5-20-05</u>	<u>2117.37</u>		<u>2117.37</u>	<u>Reinstalled Engine IO-360-A1A s/n L-3569-51A</u> <u>onto APC N523MW (see prior page for work repair)</u> <u>refilled engine w/ 8qt mineral oil, cleaned &</u> <u>gapped plugs, New oil filter CH48109, Set Engine</u> <u>Control(s) travels, c/w AD 02-2601 Injector line,</u> <u>key Insp. Due again Next Annual/Maint./Tach 2217.37</u> <u>AD's checked thru Bi Weekly 2005-09, Engine</u> <u>ground Run up + flight test O.K. —</u>
				I certify that this <u>Engine</u> has been inspected I/A/W <u>Annual</u> and determined to be in <u>Good</u> condition. Details on file under W.O. # <u>4620</u> Total Time <u>2117.37</u> Signed <u>Scott J. Smith</u> Date <u>5-20-05</u> Freeway Airport, Inc. 2000 Church Rd Mitchellville, MD 20721 CFS-PKAR11Q

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
9-30	2029.89			ENGINE ON L-3569-51A DISASSEMBLED AND INSPECTED AFTER PROP STRIKE. NO DAMAGE FOUND DUE TO PROP STRIKE. ENGINE REASSEMBLED WITH RECONDITIONED CAM, NEW HYD BOLDS, NEW MAIN AND ROD BOLDS, NEW ROD BELTS AND NUTS, NEW PISTON COOLING NOZZLES, NEW CRANK GEAR BOLT, CYL'S HARVEY AND NEW RINGS FIT TO BARRELS, NEW VALVE RETAINING KEYS, SEALS, GASKETS AND O-RINGS. C/W AD 91-14-22 BY INSPECTING CRANK SH 13819646 AND INSTALLING NEW BOLT PER STD-2246, TORQUED AND LOCKED PER LK 5.B. C/W AD 96-09-10 BY IN- SPECTING OIL PUMP GEAR SH 18109 & 18110 (STEEL GEARS) AND RE-INSTALL- ING SAME. C/W AD 90-04-06 PER STEEL LINE AND FITTING INSPECTED AND RE-INSTALL- ED. C/W AD 2002-26-01 BY INSPECTING F.I. LINES ADDING CLAMPS AND 1 BRACKET AS REQUIRED. ENGINE TEST CELL RUN AND FOUND SATISFACTORY. REMOVED BOTS LIST AND YELLOW TAGS. BACK OF LOG BOOK. LOG BOOK TIME TO CONTINUE.
				Pertinent details of the repair are on file at this agency under work order No. 020986 Date SEPT 30 '03 Signed Heath Smith for Columbia Aircraft Services, Inc. Bloomsburg, Penna. FAA R.S. JM2R930K

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Annual Inspection

Aircraft: N 3220F Make: Mooney Model: M20E Tach Hours: 2029.89 Total Hours: 2029.89

- R/R ENGINE SENT OUT FOR PROP STRIKE TEAR DOWN INSPECTION, BY COLUMBIA AIRCRAFT SERVICES, INC. WO # 020035.
- R/R PROP GOVERNOR OVERHAULED BY SENSENICH PROPELLER CO., WO# 212431.
- R/R GENERATOR OVERHAULED BY AEROTECH, WO # 71320.
- CRANKCASE FILLED W/ AEROSHELL 40WT MINERAL OIL.
- ENGINE GROUND RUN CHECKS SAT.
- FLIGHT TESTS SAT.
- ADS CHECKED THROUGH BIWEEKLY 2004-02

-----END-----

Freeway Airport, Inc.
3900 Church Road
Mitchellville, MD 20721
CRS: FK8R141Q



I Certify that this Engine has been Repaired and Inspected
in accordance with an Annual Inspection and found to be in airworthy condition.
Details are on file under work order number 4412

Signed:

Thomas J. Williams
Thomas J. Williams

Date:

9-1-04

DATE 2002 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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
07-08	1942.8			
	SMITH	0.0		I Certify That this <u>ENGINE</u> <u>Prop</u> Has Been Inspected I/A/W A 100 Hr/Annual Inspection And Has Been Determined To Be In An Airworthy Condition <i>Paul A. Norman</i> A/P 298664021 IA
09-02-02	1949.49			
	5. New Prop	0.0		Removed Defective Hartzell Prop - Installed Replacement Hartzell Prop PN HC-C3YR-1RF/F 7282 SN DY 5547B - I/A/W Installation Manual #115N, Checked Hanger Run out .000 Installed Spinner & Test Run All ops Normal <i>Paul A. Norman</i> A/P 298664021

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				<div> <div> STEINER AVIATION INTERNATIONAL, INC. MFG <u>Mooney</u> MODEL <u>M20E</u> ACS# <u>670013</u> ACN# <u>N3220F</u> </div> <div> 1606 Triplett Boulevard Akron, Ohio 44306 CRS V4NR896Y </div> <div> DATE <u>11-1-02</u> WO# <u>1147</u> T.T. <u>1960.9</u> T.L. _____ </div> </div> <p>Changed oil cleaned oil screen Saffied and Serviced with 30w mineral oil (Arvo shell) Ground Run no leaks noted</p> <div> <p>MAINTENANCE RELEASE</p> <p>The Aircraft or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this repair station under</p> <p>Work Order Number <u>1147</u></p> <p>Date <u>11-1-02</u> Time <u>15:00 1960.9</u></p> <p>Signed <u>Paul W. Norman</u> A/P 18658335</p> <p>STEINER AVIATION INTERNATIONAL, INC. V4NR896Y 1600 TRIPLETT BOULEVARD AKRON, OHIO 44306</p> </div>

DATE 2002 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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
06-01-02	1947.8			4ea SL 16740A Exhaust Valves, 8ea SL 13997-3 Keepers 4ea SL 13998-3 Valve Rotors, 4ea SL 13622 Intake Valves, 4ea Upper Intake Valve Spring Retainer PN 8ea SL 72050 Valve Keepers (Intake), 4ea SL 10207 Pistons 4ea SL 13444-1 Piston Pins, 4ea SL 5401SC Ring Set For Chrome Barrels - ENGINE was Reassembled using All new gaskets - Seals & O-Rings as Required Re-Installed the following Equipment 1ea AC Fuel Pump 1ea Pump Governor, Both Magnets, 1ea Starter 1ea Generator, 1ea Servo & 1ea Flow Divider 8ea Serviceable Spark Plugs, 4 LW 73772 oil nozzles 1ea MS 20523-60 Elbow, 1ea Oil Pressure Tower PN SL 77808, 1SL 61084 spring for oil pressure Both Ignition Harness. Inspected Injector Lines & Clamps I Certify that this engine has been overhauled J/A/W Lycoming overhaul manual PN 60294-7. Robert A. Norman A/P 298664021

DATE 2002 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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
06-25	1947.8			Re-Installed ENGINE IN MOONEY M20E N3220F using All new Bony ENKINS mounts PN 94011-02 Rigged All ENGINE Controls, Serviced with 8pts Amashell 40/80 mineral oil. Re-Installed Hartzell HCC3VR-IRF SN DY 5196B, & Spinner. Test Run ENGINE J/A/W Lycoming, ST 1427B. Set oil pressure Adjusted Idle mixture. C/W AD 91-14-22 Crankshaft Gear & Bolt. 93-02-05 Injector Lines & Clamps 96-09-10 Oil Pump Impellers (Carbonized & inside) Installed Applicable AD's SKD & C/W thru 2002-13F I Certify that this engine is in an Airworthy Condition this date. Robert A. Norman A/P 298664021

[illegible]

DATE 2000 10	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7-11-2000	1923:42			Compression Checked #1 ⁷⁴ / ₈₀ #2 ⁷³ / ₈₀ #3 ⁷³ / ₈₀ #4 ⁷³ / ₈₀ Timing CKD. Cleaned & Gapped Spark Plugs - Changed oil & Inspected Screen - Serviced with Castrol Aerashell 50/100 w see owners Entry on A Couple Pages Previous! Dated 7-8-00. Inspected Injector Lines & Clamps, Inspected Induction & Exhaust System. Greased & Adjusted Props - Washed ENGINE & Cowling Down.
	5mo#	854:42		C/w AD 93-02-05 Injector Lines & Clamps Applicable AD's CKD & C/w thru 2000-141
				I Certify That this ENGINE & Prop Has Been Inspected I/AW A 100 Hr/Annual Inspection And Has Been Determined To Be In An Airworthy Condition Robert A. Norman AIP29866402/TA

[illegible]

[illegible]

DATE 1999	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
06-21-99	1885:37			<p>Compression checked #1 $\frac{71}{80}$ #2 $\frac{73}{80}$ #3 $\frac{74}{80}$ #4 $\frac{71}{80}$</p> <p>Removed Lft Mag. Disassemble and Cleaned. Installed New Oil Seal, Starting & Running Points PN 10-382585 & 10-382584 - Re Installed @ 25° CKD Rt mag @ 25°. Cleaned & Gapped spark Plugs No oil change. Inspected Screen. Removed Starter For Repairs, Installed New Brushes In Generator Re Installed Both & Tested ops OK. Greased Prop - Washed ENGINE & Cowling Down Dressed Prop. Inspected Injector Lines & Clamps I/A/W AD 93-02-05 (Injector)</p>
	SMOH	816:37		<p>AD 98-17-11 Crankshaft Cracking N/A Applicable AD" CKD & Clw Hru 99-13m</p>
				<p>I Certify That this ENGINE & Prop Has Been Inspected I/A/W A 100 Hr/Annual Inspection And Has Been Determined To Be In An Airworthy Condition</p> <p><i>Robert J. Norman</i> AIP 298664021 JA</p>

DATE 19 <u>97</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
4-5	1804:66		735:66	Smart Performed annual inspection I/A/w Moway mail manual and checklist. no oil change. Cleaned oil screen. Cleaned exposed spark plugs. checked induction and exhaust system. C/w AD 93-02-05 fuel inj. line inspection. Aircraft test flown. operation normal. checked all AD's thru 97-06.
				I certify that this aircraft and engine has been inspected in accordance with a <u>100 hr</u> inspection and was determined to be in an <u>airworthy</u> condition. Work Order No. <u>2982</u> <u>4-5-97</u> Authorized Signature <u>[Signature]</u> Southeastern Ohio Air Service, Inc. P. O. Box 663 660 Airport Road Zanesville, Ohio 43702-0663 FAA Repair Station No. DXGR333D

DATE 19 <u>98</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
06-10	1809:20		1809:20	Compression Checked #1 ⁷³ / ₈₀ #2 ⁷⁵ / ₈₀ #3 ⁶⁸ / ₈₀ #4 ⁷² / ₈₀ Timing CKD @ 25° - Cleaned Spark Plugs - Changed oil & Inspected oil screen - Serviced with 7qts Aerashell 15/W50 - Inspected Exhaust & Induction System Washed ENGINE & cooling Down - Lubed all ENGINE Controls - Decussed Prop Blades - C/w AD 93-02-05 Injector Lines By Exp. NEXT Due 1909:20 98-02-08 Crankshaft Failure N/A Applicable AD's CKD & C/w thru 98-11m
				I Certify That this ENGINE & Prop Has Been Inspected I/A/W A 100 Hr/Annual Inspection And Has Been Determined To Be In An Airworthy Condition <u>Robert A. Norman</u> A/P 298664021 IA
				Smart
				740:20

DATE 19 <u>96</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3-23	1795.16			COMPLIED WITH Lycoming S.B. 524 by REPLACING sintered iron oil pump impellers P/N 78532 + LW-14038 with Lycoming Kit P/N OSK19423-S O.I Pump Impeller Kit. New seals and gaskets used. Replaced cylinder base seal on #2 cylinder due to oil leak. Engine test flown. Ops. normal. Installed new PINSLS3E19600 Veranotheam valve fabricated all new engine hoses.
				This aircraft and/or Component was repaired and in- spected in accordance with the current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency number: Work Order No. <u>2234</u> Date <u>3-23-96</u> <i>Ken A. Rly</i> Authorized Signature _____ Gen. No. _____ Southeastern Ohio Air Service, Inc. P.O. Box 663 850 Airport Road Zanesville, Ohio 43702-0663 E.A.A. Repair Station No. DXGR393D

DATE 19 <u>96</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3-31	1780.1			Replaced model 211CC Upe Pump with new unit. Ground run. ops normal. By A Rly ADP278508932
11-5-96	1803.5			AD 96-23-03 Textron Lycoming H16H PRESSURE FUEL PUMPS N/A TO THIS ENGINE. By A Rly ADP278508932
4-5-97	1807.66			AD 97-01-03 Piston Pins N/A to this Aircraft By A Rly ADP278508932

DATE 1980	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
8-20	RT. 1786.6		Total Hours 1786.6	3400H 717.6
			Oil Changed	Heater Muffs Ck. Plugs Cleaned & Gapped
			Oil Cleaned	Carb Air Heater Ck.
			Fuel Screen Cleaned	Eng. Mt. Ck. Mags Ck.
			Air Filter Cleaned	Eng. Wiring Ck. Eng. Washed
			compression check #1 75/80 #2 75/80 #3 75/80 #4 70/80	
			I certify that this engine has been inspected in accordance with	
			FAA inspection and was determined to be in airworthy	
			condition	
			This date August 20, 1980	
			JA 1782926 William E. Niddle	

DATE 1985	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				12-27-95 TACH 1790.46 721.46 SMOH LOGBOOK ENTRY
				Performed annual inspection. Removed spark plugs and performed differential cyclinder compression test. All cyclinders except #2 were at least 70/80 or better. Removed #2 cylinder due to ring blow-by. Valves removed and inspected. Reground and lapped. Piston cleaned, inspected, and reinstalled with new ring set and p/n 60828 piston pin plugs. Cyclinder reinstalled using new gaskets.. Installed 8 - new REM38E spark plugs. Installed all new exhaust and intake gaskets. Installed all new STD 1821 intake hoses and gaskets. Installed new RG-67193 silicon valve cover gaskets. Drained oil and cleaned oil screen. Added 8 qts. Aeroshell 100 Non-Det oil. C/W AD 90-04-06 by installing new oil line with steel fittings and 1- MS20822-6 & 74070 steel fittings. Removed fuel injectors and cleaned. C/W AD 93-02-05 Fuel Injector line inspection. Inspected both magnetos to verify compliance with AD 94-01-03 Bendix Magneto Coil and Magnet Inspection. Installed new coil and p/n 10-52945 magnet in RH magneto. Retimed magnetos to engine. Washed engine down and lubricated all engine controls. Inspected exhaust system and muffler. Removed oil cooler and flushed. Fabricated 2 new oil cooler lines. Inspect engine mounts. Performed ground run-up. Operations normal. Researched ADs and updated AD listing in back of logbook. All ADs thru Biweekly 95-25 checked.
				I certify that this aircraft and engine has been inspected in accordance with a <u>Annual</u> inspection and was determined to be in airworthy condition.
				<u>W.E. Niddle</u> <u>JA 278508932</u> <u>W.O. # 3449</u>
				Mechanic
				Southeastern Ohio Air Service, Inc.
				P.O. Box 613
				850 Airport Road
				Zanesville, Ohio 43702-0663
				F.A.A. Repair Station No. DXGR393D

DATE 1985	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
7/1/85	1754.94		1754.94	SMOH 658.94 Hrs. Run Compression Check: #1 - 75/80 - #2 - 75/80 - #3 - 75/80 - #4 - 40/80 Remove #4 CYLINDER - REPLACE RINGS & GRIND VALVES & SEATS - REPLACE ALL SEALS & GASKETS - REPAIR TOP RAFFLE & LEFT REAR RAFFLE - I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A 100HR. INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Ground Run OK. Chet E. Jones AEP 1224447
<p>Date <u>7/1/85</u> Tach Time <u>1754.94</u> I certify that this aircraft has been inspected in accordance with <u>100HR</u> inspection and was determined to be in airworthy condition. IA 309070 William M. Browning <u>William M. Browning</u></p>				

DATE 1987	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6-19	1770.8		Total Hours 1770.8	Oil Changed ✓ Heater Muffs Ck. ✓ Plugs Cleaned & Oil Screen Cleaned ✓ Carb. Air Heater Ck. ✓ Gapped ✓ Fuel Screen Cleaned ✓ Eng. Mt. Ck. ✓ Mags Ck. ✓ Air Filter Cleaned ✓ Eng. Wiring Ck. ✓ Eng. Washed ✓
Compression check #1 75/80 #2 78/80 #3 78/80 #4 74/80 Install new bendix on starter				
I certify that this engine has been inspected in accordance with for Annual inspection and was determined to be in airworthy condition <u>William E. Nickle</u> This date <u>June 19, 1987</u> IA 1782926 William E. Nickle				

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)																		
1984				<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center;">CYLINDER NO.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 16.6%;">1</td> <td style="width: 16.6%;">2</td> <td style="width: 16.6%;">3</td> <td style="width: 16.6%;">4</td> <td style="width: 16.6%;">5</td> <td style="width: 16.6%;">6</td> </tr> <tr> <td>75</td> <td>70</td> <td>75</td> <td>72</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td></td> <td></td> </tr> </table> <p style="text-align: center;">CO. _____ K</p> </div> <p>ENGINE - CHANGED OIL TO GREEN, CHANGED FILTER, CHECKED AND CLEANED SPARKPLUGS, CHECKED COMPRESSION, CHECKED FUEL SYSTEM, CHECKED PUMPS, CHECKED STARTER, AND GENERATOR BRUSHES CHECKED WAGS AND TIMED PROPERLY, CHECKED PROP FOR LEAKS AND GREASE, CHECKED ENGINE CONTROLS. ENGINE RUN UP AND LEAKS CHECKED.</p>	1	2	3	4	5	6	75	70	75	72			80	80	80	80		
1	2	3	4	5	6																	
75	70	75	72																			
80	80	80	80																			
				<p>DATE <u>11-1-84</u> TACH <u>1670.2</u> 601.</p> <p>I CERTIFY THAT THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH <u>annual</u> INSPECTION AND DETERMINED TO BE IN AIRWORTHY CONDITION. OTHER DETAILS OF THIS INSPECTION ARE ON FILE AT THIS FACILITY UNDER WO <u>11634</u> APPROVED REPAIR STATION NO. <u>367-12</u> INSPECTOR: <u>Thomson Spencer</u> SPENCER AIRCRAFT MAINTENANCE, INC. DUNN MEMORIAL AIRPORT - BUTLER, MO.</p>																		
9-29	1713.7			<p>RECHANGED OIL C LEANED AIR FILTER AERO SHELL 50 79CS</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
3/5/85	1742.65	—	1742.65	<p>SMOH 673.65 HRS. CHANGE OIL - CLEAN SCREEN - WASH ENGINE - (AERO SHELL W40) - CHECK FOR OIL LEAKS - REPLACE POWER BRACKETS - #2 & #4 Cyls. - REMOVE TAIL PIPE FOR REPAIR (TEMPORARY) - UNABLE TO GET CORRECT NEW TAIL PIPE FROM MOONEY - REPLACE ABSORBER ON TAIL PIPE HANGER - REPLACE CRANKSHAFT OIL SEAL - REMOVE & REINSTALL PROP AFTER O/H & C/W AD 77-12-06 (SEE PROP. LOG) CLEAN & GAP SPARK PLUGS - COMP. CHECK - #1 - 75/80 - #2 - 70/80 - #3 - 75/80 - #4 - 68/80 - #4 CYL. SHOULD BE CHECKED AGAIN SOON - Robert E. Sauer, AIP 1724447</p>
3/29/85	1751.03	—	1751.03	<p>REMOVE RIGHT MAGNETO - REPLACE COIL - POINTS CONDENSER & OIL SEAL - REINSTALL & TIME TO ENGINE - INSTALL EACH CHAMPION REM 38E SPARK PLUGS IN LOWER POSITION - Robert E. Sauer AIP 1724447</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				NO FOUR INSPECTION
				APPROVE - JACKED AIRCRAFT, REMOVED WHEELS, GREASED BEARINGS AND GEAR, CHECKED BRAKES, CHECKED RETRACTION AND EMERGENCY EXTENSION, CHECKED ELECTRICAL SYSTEM AND BATTERY, CHECKED ALL CONTROLS AND LUBED AS NEEDED, REMOVED ALL INSPECTION PLATES AND CHECKED STRUCTURE, CHECKED COCKPIT, BELTS, MOUNTS, AND INSTRUMENT OPERATION.
				Installed new A/C battery
				DATE <u>2-1-83</u> TACH <u>1653</u>
				I CERTIFY THAT THIS AIRCRAFT/ENGINE HAS BEEN
				INSPECTED IN ACCORDANCE WITH <u>annual</u>
				INSPECTION AND DETERMINED TO BE IN AIRWORTHY
				CONDITION. OTHER DETAILS OF THIS INSPECTION
				ARE ON FILE AT THIS FACILITY UNDER WO # <u>1405</u>
				APPROVED REPAIR STATION NO. 311-12
				INSPECTOR: <u>Thomas M. Spencer</u>
				SPENCER AIRCRAFT MAINTENANCE, INC.
				BUTLER MEMORIAL AIRPORT - BUTLER, MO.

DATE 19 <u>83</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
	<u>1653</u>			Eng given 100 hr insp comp checked
				Plugs cleaned oil changed screws cleaned
				Exhaust checked eng mount checked fuel
				injectors cleaned eng washed down sw
				up checked normal
				AD 82-2601 NA
				DATE <u>2-1-83</u> TACH <u>1653</u>
				I CERTIFY THAT THIS AIRCRAFT/ENGINE HAS BEEN
				INSPECTED IN ACCORDANCE WITH <u>annual</u>
				INSPECTION AND DETERMINED TO BE IN AIRWORTHY
				CONDITION. OTHER DETAILS OF THIS INSPECTION
				ARE ON FILE AT THIS FACILITY UNDER WO # <u>1405</u>
				APPROVED REPAIR STATION NO. 311-12
				INSPECTOR: <u>Thomas M. Spencer</u>
				SPENCER AIRCRAFT MAINTENANCE, INC.
				BUTLER MEMORIAL AIRPORT - BUTLER, MO.

DATE 1979	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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
10-25	1522			eng given 100 hr insps oil changed installed new hoses from oil radiator to rear case installed complete new muffles and exhaust system
				I certify that this Aircraft eng has been inspected in accordance with annual inspection and determined to be in Airworthy Condition. Date 10-25-79 Tach Time 1522. Total Time The master Spencer AP 1658830 EA
9-22-80	1564.0		1564.0	Annual insp. Changed oil & cleaned screen. Checked comp, mag timing & pts. Fuel injection B.H. by B+S Aircraft, (See A.D. compliance in rear of book) Replaced all rocker gaskets, Dressed prop & painted face. "I certify this engine has been inspected I.A.W. Sam Winters a annual inspection and found to be airworthy." A & P 1898473 I.A.

DATE 19 <u>81</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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
10-7	1614.			Eng given 100 hrs eng compressor, checked top plugs closed lower plugs were new at 1609 hrs exhaust checked eng controls checked oil service done prop checked and serviced engine washed down runway checked normal
				certify that this Aircraft <u>eng</u> has been inspected in accordance with <u>annual</u> inspection and determined to be in Airworthy Condition. Date <u>10-7-81</u> Tach Time <u>1614.</u> Total Time <u>545.</u> <u>Smith</u> <u>Thomas J. Spencer</u> AP 1656830 IA

10-7	16/14	Eng given 100 hrs eng compressor checked top plugs closed lower plugs were new at 1609 hrs exhaust checked eng controls checked oil service done prop checked and serviced engine washed down run up checked normal
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certify that this Aircraft has
has been inspected in accordance
with annual inspection and determined
to be in Airworthy Condition.
Date 10-7-81 Tack Time 1614. Total Time 545. Smith
Thomson Spencer AP 1658830 IA

9-22-80	1564.0	1564.0	Annual insp. Changed oil & cleaned screen. Checked comp, mag timing & pts. Fuel injection O.H. by B+S Aircraft, (See A.D. compliance in rear of book) Replaced all rocker gaskets, Dressed prop & painted face. "I certify this engine has been inspected I.A.W. Sam Winters a annual inspection and found to be airworthy." A+P 1898473 I.A.
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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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
4-10-75	1069.0		1069.0	Engine given major overhaul. Crankcase cleaved, yzgleed and straight main brg, dowels installed, all steel parts magna fluxed, work done by K.C. Flying Serv. w/o # 15731. Cyls. reworked all vlv ex. valves and guides installed. New LW 11754 camshaft & lifters installed. New LW 106465 con. rods installed. New LW 102075 pistons (std.) and rings. All vlv main & rod brgs. (std.). New oil pump parts installed 78532 gear, LW 14038 gear, 61174 shaft, 78528 body. Generator, replaced both brgs. and brushes and 1927843 plate. Replaced pts., cond., and seals in both mags. Turned starter comm. and replaced bushings. Installed new ign. harness, Prop O.H. by Foster Prop. Serv w/o # 2174. Engine filled with 8qts. Shell 40m mineral oil. Run in on ground and test flown by owner, all o.k. "I certify this engine. has been inspected I. A. W. Tom Winters an annual inspection and found to be airworthy." A & P 1898473 IA. A.D. listing in rear of this book.

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 MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
5-29-76	1177.0		1177.0	Annual inspection. Changed oil & cleaned screen. Replaced all spark plugs. "I certify this engine. has been inspected I. A. W. Tom Winters an annual inspection and found to be airworthy." A & P 1898473 IA.
7-7-77	1263.0		1263.0	Annual inspection. Changed oil & cleaned screen, replaced one rocker cover gask. replaced all ex. gaskets. Dressed prop. "I certify this engine. has been inspected I. A. W. Tom Winters an annual inspection and found to be airworthy." A & P 1898473 IA.
9-22-78	1417.0		1417.0	Annual insp. Changed oil & cleaned screen, checked comp., cleaned & gapped spark plugs. Replaced all ex. gaskets with blo-proof type. "I certify this engine. has been inspected I. A. W. Tom Winters an annual inspection and found to be airworthy." A & P 1898473 IA.

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Lycoming MODEL IO-360 A1A

SERIAL L-3569-51A TYPE CERTIFICATE _____

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT Mooney N3220F N523MW

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

The Standard



ENGINE LOG

MOONEY AIRCRAFT, INC.

ENGINE LOG

LOG 1

PROPELLER INSPECTION AND REPAIRS

I N S P E C T I O N			R E P A I R S		
DATE	INSPECTED BY	CONDITION	DATE	REPAIRED BY	REPAIRS MADE
11-27-74	Tack reads	1057	Filed	wick	and dressed
					prop blades due to aircraft condition
					report from FAA dated 10-22-74.
					Tom Winter AxP 1898 473

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
11-13-72	Annual insp.		Total time 1004.00		Replaced right front ex. stack, CK'd ex. sys. and replaced all ex. gaskets. Replaced aeroduct to heat muff. C.W. A.D. 71-11-2 Lvc. LW-11829 lifter kit installed. C.W. A.D. 71-5-2 and t. 39-1537 #2 cyl. removed and center main CK'd OK, NO shifting noted, oil screen shows no abnormal wear, screen to be cleaned at ^{each} 25 hrs. Oil changed Mobil 40 AD.						
	29 Winter		JA. 1898473		I certify this engine has been inspected I. A. W.						
	5 annual		inspection and found to be airworthy."								
BROUGHT FORWARD											
TOTALS											

PROPELLER INSPECTION AND REPAIRS

[illegible]

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
4-16-71									Tach Reads 922.41 Charged oil + cleaned + decked screen. Cleaned + gaped spark plugs. Filled + painted prop w/ SB 327 Lyeomir. Found to be airworthy.		
<p>I certify that this <u>engine</u> has been inspected in accordance with a <u>100 hr</u> inspection and was determined to be airworthy.</p>											
									DATE <u>4-16-71</u> TACH <u>922.41</u>		
									TOTAL TIME <u>922.41</u>		
<p>BROUGHT FORWARD</p>											
<p>TOTALS</p>											
<p>NAME <u>Arthur D. Kober</u> for R R 2 K C PIPER SALES, INC. 718 1991046 913 State 2-3122 Olathe, Kansas ... Repair Station <u>336T</u></p>											

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
<p>I certify that this <u>engine</u> has been inspected in accordance with a <u>visual</u> inspection and was determined to be airworthy.</p>											
<p>TOTAL TIME <u>922.41</u> <u>4-16-71</u></p>											
<p>NAME <u>Fred O. Sloan</u> K C PIPER SALES, INC.</p>											
<p>No. <u>ATI 394284</u> Box 366A 913 State 2-3122 R. R. 2 Olathe, Kansas</p>											
BROUGHT FORWARD											
TOTALS											

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
<p>I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>ANNUAL</u> inspection and was determined to be airworthy.</p>											
<p>TOTAL TIME <u>73/069</u> <u>4-4-69</u></p>											
<p>NAME <u>William H. Brown</u> K C PIPER SALES, INC.</p>											
<p>No. <u>DA 160200</u> Box 366A 913 State 2-3122</p>											
<p>R.R. 2 Olathe, Kansas</p>											
BROUGHT FORWARD											
TOTALS											

[illegible]

ENGINE LOG

DATE		R. P. M.	TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
Ground	Air		Hours	Min.	Hours	Min.	Hours	Min.			
I certify that this <u>ENG</u> has been inspected in accordance with a <u>100hr</u> inspection and was determined to be airworthy.											
TOTAL TIME			624.63								
NAME			Gerald H. Carlisle		K C PIPER SALES, INC. Box 366A 913 State 2-3122 R.R. 2 Olathe, Kansas						
No.			A48 1661220								
Changed Oil 7 qts Mobil Aero 100 Inst. CK & Clean Oil screen. Cleaned Gapped Plugs. Cyl Bleed Down OK 80% All Cyls. Timming CK Retimmed Left Mag. Points OK. Dressed & Painted Props. All Wiring, hoses, & Tubing OK. Gen & Starter Brushes OK. ACFT Run up & CK OK, Mag Drop 250 RPM R. 250 TOTALS Static 2700 RPM All Inst. Normal. <i>Gerald H. Carlisle</i> 16611220											

ENGINE LOG

[illegible]

ENGINE LOG

ENGINE LOG										LICENSE NUMBER
DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.		
7-31-68									100hr inspection completed this date. Checked oil, checked oil filter (screen & fuel screen). Removed plugs, cleaned, regapped & tested. Bleed down OK 7480 on #4 cyl. others 8480. dressed & painted prop. cleaned eng. & inspected Eng & Accessories found OK. Tyto Minit Aero 500 st used in eng.	
<p>I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>100hr</u> inspection and was determined to be airworthy.</p>										
TOTAL TIME 532:67										
BROUGHT FORWARD										
TOTALS										
<p>NAME <u>Edward J. Hart</u></p> <p>ED HART Aviation Inc. Aircraft Sales & Service</p>										

No. AEP 1672584

Box 366A 913 State 2-3122

R.R. 2 Olathe, Kansas

ENGINE LOG

ENGINE LOG										LICENSE NUMBER
DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.		
7-31-68			T.T.	532.67.					ACFT Run-up AFTER 100hr Insp And Checked OK. MAG CK 50 RPM Drop L&R. STATIC 2700 RPM No Oil or Fuel Leaks Noted. All instruments Normal.	Daniel H Carlisle A&P 1661220
8-19-68									Took Time 566:39 oil changed Refilled with 7 qts motor and 50w	John F. Riley A&P 1672584
BROUGHT FORWARD										
TOTALS										

ENGINE LOG

ENGINE LOG									REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME				
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
6-21-68			Changed Oil & Refilled With Tgt Mobil Aero #50 cleaned Oil Screen				Total Ach Time 445.0 William W Ebeling A+P 1801387				
7-3-68			Changed Oil & Refilled With Tgt Mobil Aero #50 Total Ach 472.3 William W Ebeling A+P 1801387								
BROUGHT FORWARD											

ENGINE LOG

[illegible]

ENGINE LOG

DATE		R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
		Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
6-14-68										NO Hr Completed This Date. Repaired ALL Spark plugs with REM-58E Inspected Starter & Gen brushes Bleed Down OK #1 80/80 #2 60/80 #3 80/80 #4 80/80 Pulled #2 Cylinder & Reground Intake valve & Seat Reinstalled Cyl with New Rings & Gaskets Inspected Intake & Exhaust system ALL lines Fitting & Baffling. OK Mag points & Engine Timing Drained Oil & ReFilled with Tex Mobil Aero #50 OK Screen & Dressed & painted prop		
BROUGHT FORWARD												
TOTALS												

ENGINE LOG

ENGINE LOG									REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME				
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
Run up 11/29/70											
Rt 76 LT 75											
Static 2700											
CO Test OK											
Flight Test											
OK											
WE											
BROUGHT FORWARD											
TOTALS											

I certify that this Engine has been inspected
 in accordance with 100 Hr inspection and was determined
 to be airworthy.

TOTAL TIME: 422.81

NAME: William R. Helmer
 No. AP 1801387

Aircraft Sales & Service
 Box 266A 913 State 2-3122
 R.R. 2 Olathe, Kansas

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
5-26-68	I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>ANNUAL</u> inspection and was determined to be airworthy.										
	TOTAL TIME <u>351.21</u>										
	NAME <u>William W. Ebeling</u>										
	No. <u>LA 1260200</u>										
									ERHART Aviation Inc. Aircraft Sales & Service Box 366A 913 State 2-3122 R.R. 2 Olathe, Kansas		
5-6-68	Changel Oil & Refilled with 7qt Mobil Grease #50 Tack Time 339.4 William W. Ebeling										
BROUGHT FORWARD											
TOTALS											

ENGINE LOG

[illegible]

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
2-25-68									Changed Oil & Refilled Tank Mobil Aero #40		
									Total Tank time 268.34		
									W. H. HART		
									AT 1260700		
BROUGHT FORWARD											
TOTALS											

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
03-26-68									100 HP INSP COMPLETED THIS DATE.		
									OIL DRAINED, SCREENS CHK. & REFILLED WITH 79ts		
									MOBIL AERO 50WT. CHK. PTS. & MAG TIMING.		
									CLEANED FUEL SCREEN. CLEANED, CRK & GAPED PLUGS		
									GREENSED BRGS. CLEANED, DRESSED & REPAINTED PROP.		
									COMP CK. #1 80/80 #2 70/80 #3 80/80 #4 80/80		
									MAG DROP 50 RPM L&R. STATIC RPM 2700		
									1 cer. CO. CK. PREFORMED & FOUND TO BE WITHIN SAFE RANGE		
									ed in accordance w. 100HP inspection and was determined MPAD. NOTES		
									to be airworthy. c/w THRU 68-5-3		
BROUGHT FORWARD											
TOTALS											

TOTAL TIME 315:21

NAME

TOTALS

No. 1675817

ERHART
Aviation Inc.

Aircraft Sales & Service

Box 366A

913 State 2-3122

P. R. 2

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
10-26-67									Oil changed 7 QTS Mobil Aero 50wt. Replaced one REM 38 E plug. Compression #1 8 3/82 #2 9/80 #3 8 3/81 #4 8 1/81 screens OK Sumps, drained dressed & painted prop. Washed down engine & cowling. Starter & Gen. Brushes OK. Mount. Batt #25, Controls, Lincs & Hoses OK.		
I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>100%</u> inspection and was determined to be airworthy.											
TOTAL TIME		202.11									
BROUGHT FORWARD		NAME		ERHART Aviation Inc.							
TOTALS				Aircraft Sales & Service							
		No. FA 1260200		Box 366A 913 State 2-3122							
				R.R. 2 Olathe, Kansas							

ENGINE LOG

DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.			
12-8-67									Changed Oil & Washed down eng TACH Time 239.44 William Plante FA 1260200		
12-3-67									TACH TIME 252.00 INSTALLED NEW INSULATION VIBRATOR AND NEW STARTER SELNOID Clarence Robertson A+P 1670583		
BROUGHT FORWARD											
TOTALS											

ENGINE LOG

[illegible]

ENGINE LOG

ENGINE LOG										LICENSE NUMBER
DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME		REPAIRS — ADJUSTMENTS	SIGNATURE
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.		
9/14/67									Installed New Generator, Bendrive Belt, new Diaphragm and Bushings + springs installed in Bendix induction unit and Unit Flow Branch Set + Tested by Kansas City Flying Service, ON w/o 6082 William Harn	
									APR 1260200	
10/09/67									Changed Oil 7qts	
									mobil Aero 40 installed. Daniel H Corbale	
									APR 1661220	
BROUGHT FORWARD										
TOTALS										

Mfgr. <u>LYCOMING</u>	Place _____	Date <u>4-19-67</u>
Type _____	Model <u>IO-360A1A</u>	Serial No. <u>L-3569-51A</u>
Rated H. P. _____	Maximum H. P. _____	Weight (Dry) _____
Rated R. P. M. _____	Maximum R. P. M. _____	Oil Pressure _____
Bore _____	Stroke _____	Displacement _____ Cu. In.
Compression Ratio _____	Supercharger Ratio _____	Gear Ratio _____
Propeller _____	Hub Design _____	Hub Serial No. _____
Blade Design _____	Blade Serial No. _____	Blade Serial No. _____
Maximum Hub H. P. _____	Maximum Blade H. P. _____	
Pitch _____	Diameter _____	Length _____
Owners Name _____	City _____	
Address _____	State _____	

ENGINE LOG										REPAIRS — ADJUSTMENTS	SIGNATURE	LICENSE NUMBER
DATE	R. P. M.		TIME ON GROUND		TIME IN AIR		TOTAL TIME					
	Ground	Air	Hours	Min.	Hours	Min.	Hours	Min.				
1967												
<p>PRODUCTION FLIGHT TEST COMPLETED THIS DATE</p> <p>THIS AIRCRAFT INSPECTED NEW AT FACTORY</p> <p>AND FOUND TO BE AIRWORTHY.</p>												
4-19							1	30				
<p>Note: This engine installed in Mooney M-20E</p> <p>N3220F, Ser. No. 670013.</p>												
BROUGHT FORWARD												
TOTALS												