

JULY 1998

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~~N9700Z~~ error!
~~Not For~~

ENGINE

MAINTENANCE RECORDS



N5040M



ENGINE

BOOK 2

JUNE 1998 TO PRESENT



WESTERN
Skyways
INC.

Engines Are Our **ONLY** Business

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D/

MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: N5040M



DATE: 05/21/2025
ENG TSOH: 1,707.1
ENG TSN: 3,682.2
TACH: 397.5

Mandatory Part 91 Maintenance & Life Limits

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 77/80 #2 78/80 #3 77/80 #4 78/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness

- Changed oil & filter, serviced with Phillips XC 20W50 oil and inspected challenger reusable filter p/n: CP48110C. No contaminants found
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date using ADTOOLBOX. See attached AD report dated 05/21/2025.

General Maintenance

- Timed Magnetos to 24 degrees

I certify that this ENGINE has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.

Brett J. Kurth A&P/IA 3874583

No loose Bolts LLC**ENGINE**

N#: N5040M Mfg: Lycoming Model: O-320-E3D SN: L-30971-27A Tach: 475.5

- R/R Cylinder 1,3 top and bottom plugs with new Tempest URHM-40E.
 - R/R Cylinder 4 top plug with new Tempest URHM-40E
 - Timed LH and RH mags to 25 Degrees BTDC.
 - Adjusted carb Idle air mixture, Adjusted idle.
- Performed runup, mag check within specified limits. Idle and air mixture check good
- All work done IAW Lycoming OHM. This aircraft is RTS only for the work described

Date: 7/09/2025 Name: Cody Colclasure Cert: AP4469525

Signature:

No Loose Bolts LLC.**Engine**

Make: Lycoming Model: O-320-E3D Serial Number: L-30971-27A N Number: N5040M Engine
TSOH: 1794.9 TSN: 3770 Tach Time: 485.3

Performed a 100 Hour Inspection in accordance with FAR 43 Appendix D with reference to Lycoming OHM.

Performed compression Test with the following results: **1: 73/80 2: 76/80 3: 78/80 4: 77/80**

Removed Spark plugs, Cleaned, gapped, and tested. Reinstalled spark plugs

Oil Change: Drained oil, Removed Challenger reusable filter and inspected. No abnormalities found reinstalled oil filter and safety wired. Added 7 Qts Phillips XC 20W50.

- C.W with all AD's See AD report dated 7/13/2025.**
- Noted Intake leak from Cylinder 2 intake boot. Band loose. Tightened band clamp.
- Replaced air filter with new element.

Ran engine, performed runup, mag check, leak check, and ops check good.

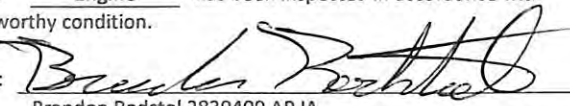

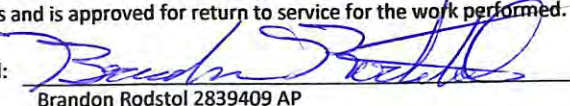



I certify that this Engine has been inspected IAW a 100 hour inspection and was determined to be in airworthy condition...

Name: Cody Colclasure

Signature:

Cert #: AP4469525

Date: 07/14/2025

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	N#: 5040M Date: 11-21-2023 W/O: 1257	Mfg: Lycoming ETT: 3243.26 Model: O-360-E3D TSMOH: 1268.16 SN: L-30971-27A Tach: 5240.26
	Scheduled Maintenance: <ul style="list-style-type: none">Complied with Annual inspection IAW FAR 43 Appendix D using Ridgeline Aviation 100hr/Annual inspection checklist.Cylinder compressions as follows: #1 75/80 #2 77/80 #3 76/80 #4 76/80Cleaned, inspected, serviced, gapped, and rotated spark plugs, installed using new M674 gaskets, torqued to 360 in lbs.Checked and verified magneto timing to 25 degrees BTDC.Lubricated and inspected engine controls.	
	Unscheduled Maintenance: <ul style="list-style-type: none">Removed engine from engine mount, removed nose strut assembly from the engine mount and removed mount from the airframe. Sent mount to Aerospace Welding Minneapolis, Inc for repair. Reinstalled repaired engine mount (AWI W/O # 216620) IAW B19 Shop Manual 3-54B Engine Installation, torqued bolts to 325 in lbs. Reinstalled engine to mount using original shock mounts and hardware IAW B19 Shop Manual 3-54B Engine Installation, torqued bolts to 500 in lbs. Reinstalled nose strut assembly to mount, reconnected lines, hoses, control cables, and wiring. Ground run, OPS and leak checks satisfactory	
	Airworthiness Directives: <ul style="list-style-type: none">Reviewed all applicable airworthiness directives through this date, see AD compliance record.	
	I certify this <u>Engine</u> has been inspected in accordance with <u>Annual</u> inspection and was determined to be in airworthy condition.	
	Signed:  Brandon Rodstol 2839409 AP IA	Ridgeline Aviation LLC 3910 Airport Way E Wenatchee WA 
	N#: 5040M Date: 07-11-2024 W/O: 1457	Mfg: Lycoming AFTT: Model: O-320-E3D Tach: 5258.18 SN: L-30971-27A
	Performed the following maintenance: <ul style="list-style-type: none">Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Installed new CH48110-1 oil filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 7 qts Aeroshell W100 oil and 8 oz of Camguard. Performed satisfactory ground run and leak check.	
	This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed.	
	Signed:  Brandon Rodstol 2839409 AP	Ridgeline Aviation 3910 Airport Way E Wenatchee WA 
	MAKE: LYCOMING MODEL: O-320-E3D S/N: L-30971-27A REG #: N5040M	DATE: 10/02/2024 ENG TSOH: 1,348.7 ENG TSN: 3,323.8 TACH: 39.1 
	Mandatory Part 91 Maintenance & Life Limits <ul style="list-style-type: none">Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.Compressions: #1 79/80 #2 80/80 #3 80/80 #4 79/80	
	Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness <ul style="list-style-type: none">Changed oil & filter, serviced with Phillips XC 20W50 oil and new CH48110-2 filterRemoved, cleaned, gapped, tested and re-installed spark plugsReplaced air inlet filter with new elementPerformed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted	
	Airworthiness Directives <ul style="list-style-type: none">AD's checked through this date 10/02/2024	
	General Maintenance <ul style="list-style-type: none">Timed Magnetos to 24 degrees	
	I certify that this <u>ENGINE</u> has been inspected in accordance with a <u>100 Hour Inspection</u> and was determined to be in airworthy condition.	
	Brett J. Kurth A&P/IA 3874583 	

MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: N5040MDATE: 12/01/2024
ENG TSOH: 1,436.4
ENG TSN: 3,411.5
TACH: 126.8

WORK

Mandatory Part 91 Maintenance & Life Limits

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 78/80 #2 78/80 #3 79/80 #4 80/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness


- Changed oil & filter, serviced with Phillips XC 20W50 oil and new CH48110-2 filter
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date 12/01/2024. See attached AD report

General Maintenance

- Timed Magnetos to 24 degrees

I certify that this ENGINE has been inspected in accordance with a 100 Hr/Annual Inspection and was determined to be in airworthy condition.Brett J. Kurth A&P/IA 3874583 MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: N5040MDATE: 02/10/2025
ENG TSOH: 1,532.9
ENG TSN: 3,508.0
TACH: 223.3**Mandatory Part 91 Maintenance & Life Limits**

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 79/80 #2 77/80 #3 79/80 #4 78/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness


- Changed oil & filter, serviced with Phillips XC 20W50 oil and new challenger reusable filter p/n: CP48110C. See attached STC and 337 dated 02/10/2025 for installation.
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted

Airworthiness Directives

- AD's checked through this date using ADTOOLBOX. See attached AD report dated 02/10/2025.

General Maintenance

- Timed Magnetos to 24 degrees
- Removed carburetor p/n: 10-5217 s/n: MS0E4U22 and installed overhauled carb p/n: 10-5217 s/n:
- Replaced Bottom #2 & #4 spark plugs and #1 Top with new p/n: CHAMPION RHM40E.

I certify that this ENGINE has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.Brett J. Kurth A&P/IA 3874583 MAKE: LYCOMING
MODEL: O-320-E3D
S/N: L-30971-27A
REG #: N5040MDATE: 03/31/2025
ENG TSOH: 1,615.4
ENG TSN: 3,590.5
TACH: 305.8**Mandatory Part 91 Maintenance & Life Limits**

- Performed 100 Hour/Annual Inspection in accordance with FAR 43 Appendix D with reference to BEECH Maintenance Manual.
- Compressions: #1 78/80 #2 76/80 #3 77/80 #4 77/80

Manufacturers Time Limits, Inspections & Instructions for Continued Airworthiness


- Changed oil & filter, serviced with Phillips XC 20W50 oil and removed, inspected, & reinstalled challenger reusable filter
- Removed, cleaned, gapped, tested and re-installed spark plugs
- Replaced air inlet filter with new element
- Performed comprehensive exhaust system inspection and exhaust system pressure test with no defects noted



Airworthiness Directives



- AD's checked through this date using ADTOOLBOX. See attached AD report dated 03/31/2025.

General Maintenance

- Timed Magnetos to 24 degrees

I certify that this ENGINE has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.Brett J. Kurth A&P/IA 3874583 

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
6/12/21	5082.4	Drained Oil. Serviced with 6qts Phillips Victory oil 20w/50 Gunter Hudy CFI 4050980 8/21
7/24/21	5111.1	Drained Oil Serviced with 7qts Phillips Victory oil 20w/50 Replaced Oil Filter with AA4810-2 Cut open oil Filter No abnormalities found. Gunter Hudy CFI 4050980 8/21
<p>N#: 5040M Mfg: Lycoming Model: O-320-E3D SN: L-30971-27A Date: 08-02-2021 AFTT: : Tach: 5123.02 W/O: 833</p> <p>Performed the following maintenance:</p> <p>-Removed #1 cylinder due to apparent leaking cylinder base seal. Cleaned and inspected cylinder/ piston assemblies. No defects noted. Reinstalled cylinder assembly with all new seals and gaskets seal kit P/N SL12032-SC IAW Lycoming Direct drive Overhaul Manual. Torqued 1/2 "cylinder base nuts to 600 in lbs and 3/8" cylinder base nuts to 300 in lbs . Reinstalled intake tube and exhaust pipe with new gaskets. Ground run leak check satisfactory</p> <p>This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed.</p> <p>Signed: <u>Cass Monnin</u> A&P 3414130 IA</p> <p>Ridgeline Aviation 3910 Airport Way E Wenatchee WA</p> 		
8/16/21	5136.2	Drained Oil Serviced with 6qts Phillips Victory oil 20w/50 Gunter Hudy CFI 4050980 8/23
<p>N#: 5040M Mfg: Lycoming Model: O-360-E3D SN: L-30971-27A Date: 08-26-2021 ETT: 3155.91 TSMOH: 1180.81 Tach: 5152.91 W/O:</p> <p>Scheduled Maintenance:</p> <ul style="list-style-type: none"> Complied with 100hr inspection IAW FAR 43 Appendix D using Ridgeline Aviation 100hr/Annual inspection checklist. Cylinder compressions as follows: #1 75/80 #2 77/80 #3 77/80 #4 76/80 Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Removed oil sump screen, some abnormal carbon and metal particles were present. Cleaned and reinstalled sump screen with a new AN900-16 gasket and safety wired. Installed new AA48110-2 filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 6 qts Phillips Victory 20w-50 oil. Performed satisfactory ground run and leak check. Recommend reinspectng oil sump screen at next oil change. Cleaned, inspected, serviced, gapped, and rotated spark plugs using new M674 gaskets. Checked magneto timing, Left @ 29 degrees Right @ 28 degrees, retimed both magnetos to 25 degrees BTDC Lubricated and inspected engine controls. <p>Airworthiness Directives:</p> <ul style="list-style-type: none"> Reviewed all applicable airworthiness directives through this date. See AD log. <p>I certify this <u>Engine</u> has been inspected in accordance with <u>100 HR</u> inspection and was determined to be in airworthy condition.</p> <p>Signed: <u>Brandon Rodstol</u> 2839409 AP</p> <p>Ridgeline Aviation LLC 3910 Airport Way E Wenatchee WA</p> 		
9/21/21	5181.2	Drained oil Serviced with 6qts Phillips Victory Oil 20w/50 Gunter Hudy CFI 4050980 8/23

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
10/8/21	5204.4	Drained Oil Serviced with 7qts Phillips Victory oil 20w/50 Replaced oil Filter with CH48110-1. Cut open oil Filter No abnormalities found. <i>[Signature]</i> CFI 4060980 8/23
<p> N#: 5040M Mfg: Lycoming Model: O-360-E3D SN: L-30971-27A Date: 05-23-2022 ETT: 3222.04 TSMOH: 1246.94 Tach: 5219.04 W/O: 987 </p> <p>Scheduled Maintenance:</p> <ul style="list-style-type: none"> Complied with Annual inspection IAW FAR 43 Appendix D using Ridgeline Aviation 100hr/Annual inspection checklist. Cylinder compressions as follows: #1 77/80 #2 78/80 #3 72/80 #4 76/80 Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Removed oil sump screen, some ferrous metal particles were present. Cleaned and reinstalled sump screen with a new AN900-16 gasket and safety wired. Installed new CH48110-1 filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 8 qts Phillips Victory AW 20w-50 oil. Performed satisfactory ground run and leak check. Recommend reinspecting oil sump screen at next oil change. Cleaned, inspected, serviced, gapped, and rotated spark plugs using new P1003 gaskets. Checked magneto timing, Left @ 25 degrees Right @ 26 degrees, adjusted RH magneto timing to 25 degrees BTDC. Lubricated and inspected engine controls. <p>Unscheduled Maintenance:</p> <ul style="list-style-type: none"> Applied Pro Seal to crankcase FWD lower seam to help with oil weeping from that area. Repaired #1 cylinder side baffle support using .032 2024 T3 aluminum and rivets. <p>Airworthiness Directives:</p> <ul style="list-style-type: none"> Reviewed all applicable airworthiness directives through this date. See AD log. <p>I certify this <u>Engine</u> has been inspected in accordance with <u>Annual</u> inspection and was determined to be in airworthy condition.</p> <p> Signed: <i>[Signature]</i> Brandon Rodstol 2839409 AP IA </p> <p> Ridgeline Aviation LLC 3910 Airport Way E Wenatchee WA </p> 		
<p> N#: 5040M Mfg: Lycoming Model: O-320-E3D SN: L-30971-27A Date: 03-02-2023 AFTT: : Tach: 5237.63 W/O: 1155 </p> <p>Performed the following maintenance:</p> <ul style="list-style-type: none"> Drained engine oil, removed filter, examined filter elements for contamination, no abnormalities found. Removed oil sump screen, no contamination found, cleaned, and reinstalled sump screen with a new AN900-16 gasket and safety wired. Installed new AA48110-2 oil filter, torqued to 16 ft lbs, and safety wired. Serviced engine with 7 qts Phillips Victory AW 20w-50 oil and 8 oz of Camguard. Performed satisfactory ground run and leak check. <p>This aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service for the work performed.</p> <p> Signed: <i>[Signature]</i> Brandon Rodstol 2839409 AP </p> <p> Ridgeline Aviation 3910 Airport Way E Wenatchee WA </p> 		

Page No. _____

DAT



McGregor Executive Airport, McGregor TX 76657

Work Order: 18-0202 N5040M

ENG Mdl: Lycoming O-320-E3D	ENG SN: L-30971-27A	Position: Main	ENG TT: 4722.84	Date: 5/22/18
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Performed an **Annual Inspection** as required by FAR 91.409 in accordance with the Beech B19 service manual, and FAR 43 Appendix D. Accomplished the following items:

- 1) Compressions check results: 1) 79/80, 2) 75/80, 3) 79/80, 4) 76/80.
- 2) Drained oil and serviced engine with 8quarts of Aeroshell W100. Replaced oil filter with new CH48110-1. Leak check satisfactory.
- 3) Checked magneto timing.
- 4) Cleaned, gapped and rotated the plugs. Tested no defects noted re-installed them into engine.
- 5) Inspected the spark plug leads no defects noted.
- 6) Replaced the #1 & #3 cylinder valve cover gaskets P/N 75906. No leaks noted.

I certify that this engine has been inspected in accordance with an **ANNUAL / 100 Hr** Inspection and has been determined to be in an airworthy condition.

[Signature]

Gary Drapela A&P 3542901 I.A.



McGregor Executive Airport, McGregor TX 76657

Work Order: 18-0386 N5040M

ENG Mdl: Lycoming O-320-E3D	ENG SN: L-30971-27A	Position: Main	ENG TT: 4773.37	Date: 8/17/18
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Drained oil and serviced engine with 8quarts of Aeroshell W100. Replaced oil filter with new CH48110-1. Performed a ground run up and checked for leaks no defects noted at this time.

The above described repair or maintenance is certified airworthy and approved for return to service.

[Signature]

Michael Perez A&P 3813294

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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N#: N5040M
ETT: 2878.73
Date: August 1, 2019
Tach: 4875.73

Mc Aviation, LLC
1-254-216-1136
Gatesville, Texas
maviation@hotmail.com

Make: Textron Lycoming
Model: O-320-E3D
Serial#: L-30971-27A
ETSMOH: 903.63

- Performed an Inspection in accordance with Annual Inspection criteria.
- Performed an engine operational ground check including to full power.
- Performed engine compression check on all cylinders.
- Removed and replaced induction air filter with new BA-7305.
- Performed an oil and filter change. Removed and replaced oil filter with new CH48110-1. Cut open filter for contamination check. No contamination found at this time. Added 11 quarts of Aeroshell 100W Plus.
- Removed and replaced spark plugs with new part number REM40E.
- Removed and replaced vacuum pump with new part number AA3215CC, serial number 01ZG14.
- Removed and replaced cabin heat scat hose with new.
- Removed and replaced alternator with new part number 10-1050A, serial number H-T050359.
- Removed and replaced regulator with new part number R15V0N, serial number 60F021

This Engine has been inspected and was found to be in an airworthy condition.

[Signature]
Travis Tatum

[Signature]
IA321139AP

7/20/20 Tach: 4995.1 SMOH: 1023.4
Performed annual inspection. Installed new intake filter element BA-7305. Drained oil and serviced engine with Aeroshell 100P, replaced filter with AA48110-2. Cleaned, gapped, and checked spark plugs. Compression results: 1-78 2-76 3-77 4-76. Installed new valve cover gaskets RG-75906. Installed new intake gaskets 71973 and couplings 69603. Installed Overhauled carb MA-4SPA, 10-5217 S/N: MS0E4U22, See 8130. Performed ground run and set idle mixture, idle speed, and leaked check system. Steven Mcleod A&P 3370601

Date: 02/09/2021 N5040M Lycoming O-320-E3D S/N L-30971-27A Tach: 5056.04 TSMOH: 1084.04
Inspected engine in accordance with Service Manual 100 HR/Annual inspection checklist & per FAR 43. App. D. Cleaned, checked & gapped sparkplugs - ok. Checked compression #1 73/80, #2 74/80, #3 73/80, #4 71/80. Checked Ad's thru this date, see AD list for details - all prior complied with.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was determined to be in airworthy condition when list of discrepancies has been cleared. List given to owner.

[Signature]
Mari Elin I. Byler
A&P 3535707 IA




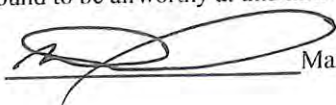


April 26, 2021 N5040M B-19
Lycoming O-320-E3D S/N L-30971-27A
Tach 5056.58


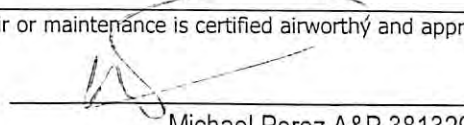

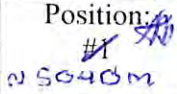

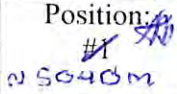
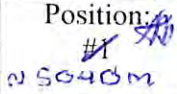
ENGINE: Drained oil, Removed, Cut, and inspected oil filter, no anomalies noted Replaced with new Filter p/n AA48110-2. Removed and inspected suction screen, no anomalies. Serviced with 7qts Phillips Victory 20w50. Reviewed list od discrepancies from annual inspection and performed the following. Resecured defrost scat tube to prevent further rubbing on engine mount. Inspected presence of sealant around crankcase hardware no corrective action required. Inspected starter installation no discrepancies noted. Inspected alternator belt in reference to cowling hardware, no discrepancies noted. Oil return lines replaced as needed. Inspected oil dipstick, missing handle does not prevent secure installation and sealing of the dipstick, no further action required. Reposition rubber cushion on primer line to prevent rubbing on clamp and tied up loose ignition harness. Inspected engine oil preheater installation and determined pre heater installed correctly and per the manufacturer is an FAA accepted item. List of discrepancies from annual inspection cleared.



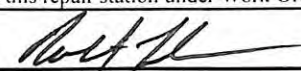
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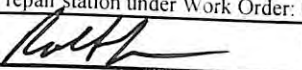
Page No. _____


DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
		<div><div>Sport Aviation Company 360 Howard Clemmons Rd. Suite A Granbury, TX. 76048</div><div>May 18, 2016 N5040M</div><div>Tach Time: 4605.99 TSMOH: 633.99</div><div>Engine Warmed. Oil Drained. Filter cut and inspected no contaminates found. Compression check performed results as follows: #1 78/80 #2 77/80 #3 77/80 #4 76/80. Serviced Engine with 8 Qts. Aeroshell 100W and CH48110-1 Filter. Spark Plugs cleaned gapped and rotated. Ignition timing checked and leads inspected. Run up and Leak Check Performed Satisfactory.</div><div>Shane Stuart  A&P 3453915</div><div>I Certify this engine has been inspected In accordance with an Annual Inspection and was determined to be in an airworthy condition.</div><div>Shane Stuart  IA 3453915</div><div><div>Kachemak Bay Flying Service 7720C AIRPORT RD. TEMPLE, TX. 76504 254-773-9902 10 April 2017</div><div>N5040M Beechcraft B-19 S/N: MB-895 ACTT: 4626.2 Tach: 4626.2 Engine: Lycoming O-320-E3D S/N: L-30971-27A EngTT: 2629.3 SMOH: 654.2 Prop: Sensenich Model: 74DM6S55-0-54 S/N: A59985 TSN: 474.5 SMOH: 474.5</div><div>1. As per FAR43.13 the engine was cleaned, inspected, and serviced per Lycoming Service Manual Inspection report and a checklist meeting the scope and details outlined in App. D of FAR 43 2. AD's checked thru 2017-06. See AD Compliance Report for details. 3. Drained oil. Removed filter and cut open for inspection, no defects noted. Installed a new CH48110-1 oil filter and serviced engine with 8 qts of Aeroshell 100W. 4. Installed new BA7305 air filter 5. L/H Magneto S/N: 96110560 & R/H Magneto S/N: 98030172 removed and sent to Magneto E.R. M6RR443X for 500hr. Inspection. Reinstalled magnetos, Checked magneto to engine timing. 6. Installed new magneto wiring harness P/N: M2508 7. Removed, cleaned, gapped, and reinstalled sparkplugs. 8. Replaced 4 ea. exhaust flange gaskets P/N: 08-05211 9. Replaced 4 ea. rocker box cover gaskets P/N: 75906 10. Replaced fuel pump drain line. 11. Replaced crankcase vent hose flexible line. 12. PowerFlow Exhaust I.C.A. complied with per Power Flower report # PFS-13850-00 dated 07/18/07 Chapter 6 13. Checked cylinder compressions, #1 75/80, #2 75/80, #3 75/80, #4 75/80 14. Installed all panels and covers removed for inspection. All maintenance performed I.A.W. current Lycoming Service Manuals and standards outlined in FAA AC 43.13B I certify that this engine has been inspected IAW a 100 Hour Inspection.</div><div> Bryan Mangum A&P 3394692</div><div><div>Kachemak Bay Flying Service. 7720C AIRPORT RD. TEMPLE, TX. 76504 254-773-9902 5 April 2017</div><div>N5040M Beechcraft B-19 S/N: MB-895 ACTT: 4626.2 Tach: 4626.2 Engine: Lycoming O-320-E3D S/N: L-30971-27A TSN: 2629.3 SMOH: 654.2</div><div>I certify that this engine has been inspected IAW an Annual Inspection and was found to be airworthy at this time.</div><div> Mark McDaniel A&P2093072IA</div></div></div></div>





Page No. _____

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK												
		<div><div> McGregor Executive Airport, McGregor TX 76657</div><div>Work Order: 17-0328</div><table><thead><tr><th>AC Mdl:</th><th>AC SN:</th><th>Reg No:</th><th>Tach:</th><th>Date:</th></tr></thead><tbody><tr><td>Beech B19</td><td>MB-895</td><td>N5040M</td><td>4648.09</td><td>8/23/17</td></tr></tbody></table><div>Performed the following repairs IAW the Beech B19 maintenance manual and AC 43.13-1B: 1) Replaced engine oil with 8qts new Aeroshell W100 oil and a new filter P/N CH48110-1. 2) Replaced the oil sump gasket with a new gasket P/N LW-13353. 3) Replaced Induction tube gaskets (4) ea. P/N 71793. 4) Replaced Induction tube couplings (4) ea. P/N 69603. 5) Replaced the engine mount isolators with (4) sets P/N 94150-01. 6) Replaced a broken shielding ground wire on the LH magneto with a new 20 gauge ground wire. 7) Performed a ground run of the engine to check for leaks. No leaks detected at this time.</div><div>The above described repair or maintenance is certified airworthy and approved for return to service.</div><div> Michael Perez A&P 3813294</div></div>	AC Mdl:	AC SN:	Reg No:	Tach:	Date:	Beech B19	MB-895	N5040M	4648.09	8/23/17		
AC Mdl:	AC SN:	Reg No:	Tach:	Date:										
Beech B19	MB-895	N5040M	4648.09	8/23/17										
		<div><div> McGregor Executive Airport, McGregor TX 76657</div><div>Work Order: 18-0628</div><table><thead><tr><th>ENG Mdl:</th><th>ENG SN:</th><th>Position:</th><th>ENG TT:</th><th>ENG</th><th>Date:</th></tr></thead><tbody><tr><td>Lycoming 0320- E3D</td><td>L30971- 27A</td><td> N5040M</td><td>4688.57</td><td>TC:</td><td>1/23/18</td></tr></tbody></table><div>Tightened alt.belt.,tightened fuel line.,changed oil&filter.,Repalced deteriorated scat hose.</div><div>The above described repair or maintenance is certified airworthy and approved for return to service. I certify that this aircraft engine/propeller has been inspected in accordance with FAR 91.409 (F)3, ha been found airworthy, and is approved for return to service.</div><div>Keith Hipp A&P #431252731 </div></div>	ENG Mdl:	ENG SN:	Position:	ENG TT:	ENG	Date:	Lycoming 0320- E3D	L30971- 27A	 N5040M	4688.57	TC:	1/23/18
ENG Mdl:	ENG SN:	Position:	ENG TT:	ENG	Date:									
Lycoming 0320- E3D	L30971- 27A	 N5040M	4688.57	TC:	1/23/18									







DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
		 Leading the Business of Aviation	Cutter Aviation Dallas, Inc. 1500 E Industrial Blvd McKinney TX 75069-7566
			
		Registration: N5040M	Tach 4422.58
		Model No. B19	
		Serial No. MB-895	
Engine Log Entry			
Performed oil change in accordance with B19MM section 2. Replaced oil filter with new PN CH48110-1. Serviced with 8quarts Aeroshell 15W50. Inspected old oil filter with no defects noted. Leak check good.			
The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order: 06M-3333			
Date:	July, 26 2013	CRS# UXCR663X	 Robert Fulcher

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
		 Leading the Business of Aviation	Cutter Aviation Dallas, Inc. 4500 Claire Chennault Dr. Addison, TX 75001
			
		Registration: N5040M	Tach 4464.68
		Model No. B19	
		Serial No. MB-895	
Engine Log Entry			
PN O-320-E3D SN L30971-27A			
Performed an 100 hour inspection in accordance with the Hawker Beechcraft 19 series maintenance manual chapter 5 100-hour checklist.			
Compression shows #1 78/80, #2 74/80, #3 75/80, #4 73/80			
Performed engine oil and filter change PN CH48110-1 and serviced with 8 qts Aero shell 15W50. Inspected old filter with no defects.			
Removed engine driven fuel pump PN 15472 SN 9803 and installed overhauled engine driven fuel pump PN LW 15472 SN 04SB27 in accordance with overhauled pump installation instructions. Operational check good. No leaks.			
Removed all four lower spark plugs from cylinders and replaced with new PN RHM 40E. Secured and torque. Function check good.			
I certify this engine has been inspected in accordance with a 100 hour inspection and has been determined to be in airworthy condition.			
The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order: 06M-3499			
Date:	February, 05 2014	CRS# UXCR663X	 Robert Fulcher

11-15-14 Engine Warmed, Filter Changed Inspected For Contamination
None Noted. Serviced with 8 quarts Aeroshell 15W50 and
Filter. Run up and leak check performed satisfactory.
 A&P 3453915

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- <u>Sport Aviation Company</u> 360 Howard Clemmons Rd. Suite A Granbury, TX. 76048	
		February 21, 2015 N5040M	Tach Time: 4540.49 TSMOH: \$68.49
Engine Warmed, Oil Changed, Compression Check Performed, results as follows: #1 78/80 #2 76/80 #3 76/80 #4 78/80. Plugs cleaned gapped and rotated. Verified Mag Timing, Inspected ignition Leads. Complied with AD 98-02-08, No Corrosion found Painted Internal Bore with Urethabond 104, stamped crank with PID, No further action is required. Run Up and leak check performed satisfactory.			
		Shane Stuart 	A&P 3453915
I Certify this engine has been inspected In accordance with an annual inspection and was determined to be in an airworthy condition.			
		Shane Stuart 	IA 3453915
8-7-15	4573.21	Engine warmed, filter removed, oil drained, checked for contamination - None noted. 8quarts of Aeroshell 15W50 added. Replaced filter # CH48110-1. Run-up and checked for leaks. None noted.  -Owner N5040M	
9-19-15	4574.0	Replaced all 8 Plugs w/new PN RHM40E AFTER NOTING ENGINE Roughness on flight home FROM HUNTON, OK (20%)	
<u>Sport Aviation Company</u> 360 Howard Clemmons Rd. Suite A Granbury, TX. 76048			
		November 3, 2015 N5040M	Tach Time: 4575.5 TSMOH: \$03.5
Removed #4 Cylinder to facilitate replacement of fractured cylinder hold down studs. Replaced all hold down studs P/N 38-13 and 50-15 at # 4 Cylinder in accordance with Lycoming SI 1290F and Torqued In Accordance with Lycoming SI 1029D. Repaired Baffling as required. Removed carb for repair by Aircraft Carb and Fuel Injection, ref WO# 5960, Adjusted Idle speed and Mixture. Run Up and Leak check performed satisfactory.			
		Shane Stuart 	A&P 3453915

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
7-12-08	9262.01	100hr inspection- all com. #1 75/80 #2 74/80 #3 75/80 #4 70/80 changed oil & oil filter, added 7qts aeroshell 50wt plus oil, cleaned & gaped plugs installed new air filter lube & ck all controls & Exhaust system over ck. o.k. I certify that this Engine has been inspected I/A an 100hr inspection and was determined to be in airworthy condition. William M. Staines A&P 413-86-3051 1/A
8-1-08	Tach. T 9293.	Changed oil & oil filter added 7qts aeroshell 50wt plus oil. William M. Staines A&P 413-86-3051
		Date 8-27-09 Total Time 395.51 m/o/H Tach/Hobbs Time 4367.52 I certify that this Engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition. Signed William Staines A&P No. 413-86-3051 1/A

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																				
		Date 8-16-10 Total Time 416.51 m/o/H Tach/Hobbs Time 4378.35 I certify that this Engine has been inspected in accordance with a 100hr inspection and was determined to be in an airworthy condition. Signed William Staines A&P No. 413-86-3051 1/A																				
		changed oil & oil filter added 7qts aeroshell 100 plus. com all 72 & better lube & ck all controls & ck. Exhaust system over. o.k.																				
		ENGINE LOG ENTRY August 01, 2012 Textron Lycoming O-320-E3D S/N L-30971-27A TACH: 4378.91 TT: 2382.1 TSMO: 406.91 Performed an annual insp. on this eng. IAW Beechcraft MM and Far 43 appendix D as applicable. Compressions: #1 78 #2 75 #3 73 #4 75. Clean, gap and test plugs. Replaced oil filler tube gasket. Run chk. ok. no leaks noted. I certify this eng. was insp. IAW an annual insp. and was determined to be in airworthy condition. AD's chk'd thru 2012-14. See compliance sheet. Matthew Parish AP 32491971A A&P 32491971A																				
		<table border="1"> <tr> <td colspan="2">  </td> <td colspan="2">Cutter Aviation Dallas, Inc. 1500 E Industrial Blvd McKinney TX 75069-7566</td> <td colspan="2">  </td> </tr> <tr> <td>Registration:</td> <td>N5040M</td> <td colspan="2" rowspan="3"> Engine Log Entry PN O-320-E3D SN L30971-27A </td> <td>Tach</td> <td>4384.04</td> </tr> <tr> <td>Model No.</td> <td>B19</td> <td></td> <td></td> </tr> <tr> <td>Serial No.</td> <td>MB-895</td> <td></td> <td></td> </tr> </table>			Cutter Aviation Dallas, Inc. 1500 E Industrial Blvd McKinney TX 75069-7566				Registration:	N5040M	Engine Log Entry PN O-320-E3D SN L30971-27A		Tach	4384.04	Model No.	B19			Serial No.	MB-895		
		Cutter Aviation Dallas, Inc. 1500 E Industrial Blvd McKinney TX 75069-7566																				
Registration:	N5040M	Engine Log Entry PN O-320-E3D SN L30971-27A		Tach	4384.04																	
Model No.	B19																					
Serial No.	MB-895																					
		Performed an 100 hour inspection in accordance with the Hawker Beechcraft 19 series maintenance manual chapter 5 100-hour checklist. Compression shows #1 76/80, #2 74/80, #3 78/80, #4 76/80 Performed engine oil and filter change PN CH48110-1 and serviced with 8 qts Aeroshell 15W50. inspected old filter with no defects. Cleaned oil strainer and reinstalled with new gasket PN MS35769-21. Replaced engine hoses (except type D) with new PN 24F002-8CR0363, 124F001-6CR0080, 124F001-3CR0124. I certify this engine has been inspected in accordance with a 100 hour inspection and has been determined to be in airworthy condition. The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order 06M-3141 Date: January, 29 2013 CRS# UXCR663X Robert Fulcher																				

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
9/26/05	4182.7	TSO 210.7 DRAINED OIL, INSPECTED FILTER AND SCREEN, NO DEFECTS. INSTALLED NEW FILTER P/N CH48110 AND SERVICED WITH 8 QTS AEROSHELL 100 PLUS. <i>J.H. M</i> ATP 431159002
2/15/06	4206.8	TSO 234.8 Changed Oil and filter. Serviced with seven (7) quarts of Aeroshell 80W (AD). Replaced filter with Champion CH48110-1 Oil Filter. Engine was run and checked for leaks. Aircraft returned to service. <i>Donald B. Phommavong</i> 2685578 AEP

PRECISION AEROSPACE TECHNOLOGIES INC.

LYCOMING 0-320-E3D * S/N L-30971-27A * TACH: 1751.4 * MAY 17, 2006
TTE: 2210.9 * SMOH: 235.8

COMPLIED WITH A 100-HOUR INSPECTION PER TITLE 14 CFR PART 43, APPENDIX D. DRAINED OIL. REMOVED, CUT & INSPECTED OIL FILTER, NO FILTER CONTAMINATION NOTED. INSTALLED A NEW CHAMPION CH48110-1 OIL FILTER AND SERVICED ENGINE WITH 7 QUARTS AEROSHELL W100 OIL. INSTALLED NEW TACH DRIVE GARLOCK SEAL P/N 642714, GASKET P/N 632085, AND NEW RAPCO RA215CC DRY AIR PUMP S/N A20579. CHECKED ENGINE COMPRESSION: #1 78/80 #2 77/80 #3 77/80 #4 77/80. CONNECTED LOOSE PRIMER LINE; CORRECTED CHAFFING BETWEEN PRIMER LINE AND #3 INTAKE. INSTALLED NEW VACUUM PUMP GARLOC SEAL P/N 06A19956 AND GASKET P/N 8313. RIGGED MIXTURE CABLE. REMOVED STARTER P/N MZ-4222-R AND 00879. ENGINE GROUND RUN & LEAK CHECK OK. INSTALLED NEW SAF-AIR OIL DRAIN VALVE P/N 07-THIS ENGINE & PROPELLER WERE INSPECTED IN ACCORDANCE WITH A 100-HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. IN ACCORDANCE WITH THE WORK MENTIONED ABOVE THIS ARTICLE IS APPROVED FOR RETURN TO SERVICE. ALL LEAK CHECKS FUNCTION CHECKS AND/OR INSPECTIONS WERE DONE IN ACCORDANCE WITH APPLICABLE MAINTENANCE MANUALS. DETAILS OF THE WORK PERFORMED CAN BE FOUND AT THIS AGENCY UNDER WORK ORDER NUMBER 5174.

SCOTT HOLT

SCOTT HOLT
CRS # P90R564Y

PRECISION AEROSPACE TECHNOLOGIES INC.


LYCOMING 0-320-E3D * S/N L-30971-27A * TACH: 4261.26 * SEPTEMBER 10, 2007
TTE: 2264.26 * SMOH: 289.16

COMPLIED WITH A 100-HOUR INSPECTION PER TITLE 14 CFR PART 43, APPENDIX D. DRAINED OIL. OBTAINED S.O.A.P. SAMPLE. REMOVED, CUT & INSPECTED OIL FILTER, NO FILTER CONTAMINATION NOTED. INSTALLED A NEW CHAMPION CH48110-1 OIL FILTER AND SERVICED ENGINE WITH 8 QUARTS AEROSHELL W100 PLUS OIL. CHECKED ENGINE COMPRESSION: #1 78/80 #2 76/80 #3 78/80 #4 76/80. ENGINE GROUND RUN & LEAK CHECK OK. THIS ENGINE & PROPELLER WERE INSPECTED IN ACCORDANCE WITH A 100-HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. IN ACCORDANCE WITH THE WORK MENTIONED ABOVE THIS ARTICLE IS APPROVED FOR RETURN TO SERVICE. ALL LEAK CHECKS FUNCTION CHECKS AND/OR INSPECTIONS WERE DONE IN ACCORDANCE WITH APPLICABLE MAINTENANCE MANUALS. DETAILS OF THE WORK PERFORMED CAN BE FOUND AT THIS AGENCY UNDER WORK ORDER NUMBER 5859.

SCOTT HOLT

SCOTT HOLT
CRS # P90R564Y

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N5040M	Date: 6-16-2001	Tach: 4120.1 TSO: 148.1 TTE: 2122.9 Performed annual inspection per FAR 43 Appendix D and a checklist. Cleaned, gapped, and rotated sparkplugs, Compression: #1-75/80; #2-76/80; #3-76/80; #4-76/80, Replaced #1 cylinder intake pushrod tube and seals, SB NE-01-22 n/a by date code, C/W AD 2000-18-53 Oil Converter Plate n/a by model. I certify this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition at this time and is approved for return to service. <i>Dana Brewer 507646159IA</i>
N5040M	Date: 8-6-2002	Tach: 4131.2 TSO: 159.2 TTE: 2134.0 Performed annual inspection per FAR 43 Appendix D and a checklist. Cleaned gapped and rotated sparkplugs, Drained oil, inspect/replaced filter CH48110 and serviced with Phillips XC 20/50, Compression: 1-75; 2-76; 3-76; 4-73 C/W AD 2002-12-07 Oil Converter Plate Gasket n/a by model no further action required. I certify this engine and propeller have been inspected IAW an annual inspection and were determined to be in airworthy condition at this time and are approved for return to service. <i>Dana Brewer 507646159IA</i>
N5040M	Date: 9-14-2003	Tach: 4142.2 TSO: 170.2 TTE: 2145.0 Performed annual inspection per FAR 43 Appendix D and a checklist. Cleaned gapped and rotated sparkplugs, Compression /80: 1-72; 2-72; 3-74; 4-73, I certify this engine and propeller have been inspected in accordance with an annual inspection and were determined to be in airworthy condition at this time and are approved for return to service. <i>Dana Brewer 507646159IA</i>
N5050M	Date: 6/1/2005	Tach: ^{4151.7} 5141.7 TTE: 2154.5 TSO: 179.7 Performed an annual inspection on this engine in accordance with FAR 43, Appendix D, and Beech Aircraft Service Manual. Performed compression test @80 PSI: #1-79; #2-75; #3-78; #4-74. Cleaned, gapped and rotated spark plugs, replaced #1 cylinder pushrod seals and o-rings. Disassembled engine and performed inspection replaced 2 each hydraulic lifter assy's, installed serviceable crankshaft and camshaft, installed serviceable crankshaft gear P/N 13519646 , replaced #1 cylinder assy P/N LW-12416 - all steel parts magnafluxed and reassembled engine per Lycoming overhaul manual, serviced with Aeroshell 100 mineral oil. Complied with A.D. 04-10-14 C1 Crankshaft Gear and Gear Retaining Bolt by replacing new bolt and lock plate. I certify this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition at this time and is approved for return service. <i>Dana Brewer 507646159IA</i>
8/9/05		Tach 4168.0 Installed New oil line P/N SD 57057 RS DB610008 TSO CS3TC III F417-8DD464. Run up & Checked for Oil leaks. All checked OK. <i>C. J. [Signature] 507646159IA</i>

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK		
<div style="text-align: center;">WESTERN SKYWAYS, INC. <small>1865 Iaina Dr. Montrose, Colorado 81401</small></div>				
Engine Make: <u>LYCOMING</u> Model: <u>O-320-E3D</u>				
Serial Number: <u>L-30971-27A</u> W/O No. <u>11237</u> Date: <u>6-01-98</u>				
Warranty Number: <u>99081</u> Warranty Start Date: <u>7-98</u>				
Gold Seal aircraft engine per <u>LYCOMING</u> Manual No. <u>60294-7-4</u>				
This engine & accessories were remanufactured to "Factory NEW Tolerances". See back section for Airworthiness Directive & Service Bulletin compliances. This engine was run in a test cell. Total Previous Time: <u>1975.1</u> Hrs.				
The accessories listed below were overhauled and supplied with this engine:				
	Part No.	Serial No.	Part No.	Serial No.
L/H Mag:	4372	96110560	Prop Gov:	N/A
R/H Mag:	4370	98030172	Alt/Gen:	N/A
Fuel Pump:	LW15472	803	Wastegate:	N/A
Inj/Carb:	10-5217R	CK47706	Controller:	N/A
Man Valve:		N/A	Controller:	N/A
Starter:	MZ4222R	6R000049	Relief Valve:	N/A
Turbo:		N/A	Vac Pump:	N/A
			Oil Pump:	N/A
<div style="text-align: center;">MAINTENANCE RELEASE</div> <p>The engine and accessories identified above were repaired and inspected in accordance with current Federal Aviation Regulations and were found airworthy for return to service. Pertinent details of this repair are on file at this repair station on above work order.</p> <p style="text-align: right;">Signature <u></u> Repair Station No. WS9R575J</p>				

DATE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED -- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
6/1/98	3972.0	TTE: 1975.1 TSO 0.0 THIS ENGINE INSTALLED ON N5040M. SEE AIRFRAME LOG. Dana Brewer 507646159IA
7/28/98	3983.19	TSO: 11.2 DRAINED AND SERVICED OIL
8/4/99	4032.5	TSO: 60.5 DRAINED AND SERVICED OIL
6/1/00	4057.3	TTE: 2060.1 TSO: 85.3 C/W ANNUAL INSP. IAW FAR 43 Appendix D AND A CHECKLIST. RESET R/H MAG TIMING; SAFETIED ALTERNATOR; COMP. CHECK #1-76/80, #2-74/80, #3-75/80, #4-76/80, SAFETIED CARBURATOR TO INTAKE PLENUM BOLTS; CLEANED, GAPPED, ROTATED SPARK PLUGS. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION APPROVED FOR RETURN TO SERVICE. Dana Brewer 507646159IA
6-19-00	4057.9	DRAINED OIL, INSPECTED FILTER AND SCREEN, NO DEFECTS NOTED. INSTALLED NEW FILTER P/N CH48110 AND SERVICED WITH 8 QTS Phillips XC20/50. Dana Brewer 507646159IA
8-8-00	4107.5	DRAINED OIL, INSPECTED, FILTER AND SCREEN OK. INSTALLED NEW FILTER CH48110 AND SERVICED W/ 8 QTS AXXOS Phillips XC20/50 Dana Brewer 507646159IA

ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. _____

Engine Manufacturer _____

Model _____

Serial No. _____

Date installed on aircraft N5040 m

JULY 1998

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

☐ RIGHT

☐ LEFT

☐ FRONT

☐ REAR

ENGINE LOG



The Standard

FEBRUARY 1981 TO JUNE 1998

BOOK 1

ENGINE

DATE 19 <u>91</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.)
11-9.	3883.08			Changed oil & filter (Phillips 20W50) 7Qts. Compression test as follows ① 77/80 ② 72/80 ③ 75/80 ④ 75/80. Serviced spark plugs, carb filter, fuel strainer. Checked magneto timing. Ignition leads. Inspected fuel, intake, exhaust, mufflers, oil & electrical syst. for security and leakage. Serviced induction filter. Ground run-up and leak check performed. I certify that this powerplant has been inspected IAW a 100hr inspection and was determined to be in an air worthy condition. Michael J. Zuber ACP 316-74-4048
				I CERTIFY THAT THIS AIRCRAFT engine ^{engine/propeller} HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. TACH 3883 DATE <u>11/9/91</u> NAME <u>JASchedlund</u> AEP 15341001A

DATE 19 <u>93</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.)
1-26-93	3889.08			Compression test all 75/80+. Checked timing, gapped spark plugs. Serviced, lubed, checked travel of engine controls. Inspected prop, spinner, and mounting hardware. Changed oil/used Phillips XC 20W50. ENGINE / PROP ENGINE
100 HR				AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. TACH 3889.08
126-93	AP 316-74-4048			Michael J. Zuber DATE 3-1-93 NAME <u>JASchedlund</u> AEP 15341001A
1994				
5-2	3896.6	TACH		CYLINDER COMPRESSION CHECKS GOOD ALL CYLINDERS. CHANGED OIL & OIL FILTER, ADDED PHILLIPS 20W50XC OIL. AD NOTE 93-18-33 DOES NOT APPLY TO THE CARBURETOR DISASSEMBLED AT THIS TIME - THE CARBURETOR HAS A ONE-PIECE VENTURI INSTALLED. I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN DISASSEMBLED IN ACCORDANCE WITH AN ANNUAL DISASSEMBLY WAS DETERMINED TO BE IN AIR WORTHY CONDITION AT THIS TIME. JASchedlund AEP 15341001A 5/2/94

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.)
				AD checked through 8-86, cleaned fuel strainer. I certify that this aircraft has been been inspected in accordance with an 100 hour inspection and was determined to be in airworthy condition. AWP 393760551 Dave O'Jude

June 2, 1986	TACH 3711 HRS.			I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Jack A. Schneidemann AIP 1534100 IA 6/2/86
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7-2-87	Tach Time 3748.4			Performed 100 hr Inspection in accordance with Beech Service Manual & Checklist. All AD's checked and complied with to date. Changed oil with 8qts 30W 50 Phillips, cleaned oil screen, cleaned gapped and tested plugs, tested all plug leads compression test as follows: #1 80 2 78 3 78 4 80. Toned mag's. I certify that this engine has been inspected in accordance with an 100 hr
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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.)
				inspection and was determined to be in airworthy condition. David A. Juckem AIP 393760551
7-2-87	3748.4 HRS		1752	SMOH I CERTIFY THAT I HAVE INSPECTED THIS AIRCRAFT ENGINE IN ACCORDANCE WITH AN ANNUAL INSPECTION & DETERMINED IT TO BE IN AIRWORTHY CONDITION AT THIS TIME. Jack A. Schneidemann AIP 1534100 IA 7-2-87
8-13-88	3797.4 HRS		1801	SMOH. CLEANED & GAPPED SPARK PLUGS. CYLINDER COMPRESSION CHECKED GOOD ALL CYLS - ALL 75/80 OR BETTER. MAGNETO TIMING CHECKED. TESTED IGNITION LEADS. CHANGED OIL - ADDED PHILLIPS 20W50. INSTALLED AC OIL FILTER ADAPTER. INSTALLED CHAMPION CH48110 OIL FILTER. MUFFLER REBUILT @ STEPPLEDAWLEY AVIATION BURLINGTON, WI - SEE TAG IN REAR OF AIRFRAME LOG. REPAIRED ALL EXHAUST GASLETS - RE-RIVETED CARB AIR BOX BUTTERFLY TO SHAFT. CHECKED STARTER BEGONS. - CONT' next page - Jack A. Schneidemann AIP 1534100 IA 8/13/88

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.)
10/20/84	100hr cont.)			I certify that this engine has been Inspected in accordance with a 100hr inspection and was determined to be in airworthy condition. Robert J Paul A3P392480446
4/27/85	3685		1689	T.S.M.O.H. Performed a 100hr inspection. Engine compression test results were #1 $7\frac{7}{80}$, #2 $1\frac{68}{80}$, #3 $7\frac{7}{80}$, and #4 $6\frac{7}{80}$. Drained oil, inspected screens and added 8qts Phillips X/C-20W50 oil. Cleaned, gapped tested and reinstalled spark plugs. Retimed Left magneto to engine and checked right magneto to engine timing. Inspected magneto leads. Inspected intake, exhaust, fuel, oil, and engine electrical systems and checked for security. Replaced alternator belt and retorqued to engine. Inspected prop. Checked engine controls for correct travel and lubed. Engine was ground run and leak checked. I certify that this engine has been inspected in accordance with a 100hr inspection and was determined to be in airworthy condition. End

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.)
Robert J Paul	A3P	392480446		
April 27, 1985	3685		1689	TOTAL TIME. 1689 TIME SINCE MAJOR O'HAUL. I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME. Jack A. Schriener A3P1534100JA 4/27/85
5-30-86	Tach Time	3711.16		performed 100 hr inspection in accordance with boeck maintenance manual and check list, changed oil with 8qts phillips 20W50, cleaned oil screen, cleaned gapped and tested plugs. compression test as follows #1 $7\frac{7}{80}$ #2 $1\frac{68}{80}$ #3 $7\frac{7}{80}$ #4 $6\frac{7}{80}$, inspected exhaust system found no cracks in muffler, installed new E&T battery due April 188 installed new bearings & reced on all wheel assemblies installed new points both mags and new distributor gear and brush on right mag, timed mags to engine, doosed prop checked battery, lubed all control linkages.

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3-16-84	Tach Time		3467.00	SMOH 1471 Changed oil with 8qts Phillips 20W50, cleaned oil screen, cleaned & gapped plugs compression test as follows #1 $\frac{75}{80}$ #2 $\frac{76}{80}$ #3 $\frac{72}{80}$ #4 $\frac{76}{80}$ installed washer on throttle linkage as per boech service instructions #1243 I certify this engine has been inspected in accordance with an 100 hr inspection and was determined to be in airworthy condition A/P David A. Fisher ATP 393760551
4-21-84	Tach Time		3544	Removed #1 + #3 cyl. installed new pistons P/N 75413 Piston Rings P/N 73998 and P/N 74673, honed cyl. all work performed according to Lycoming overhaul manual, new seals throughout. David A. Fisher ATP 393760551
4-21-84	Tach Time		3544	Changed oil with Phillips mineral oil for brake in at #1 & #3 cyl David A. Fisher ATP 393760551

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.)
4-28-84	Tach Time		3555	performed 100 hr inspection, changed oil with 8qts Phillips 20W50, cleaned oil screen, cleaned & gapped plugs, compression test as follows #1 $\frac{80}{80}$ #2 $\frac{79}{80}$ #3 $\frac{78}{80}$ #4 $\frac{76}{80}$ I certify this engine has been inspected in accordance with an 100 hr inspection and was determined to be in airworthy condition David A. Fisher ATP 393760551
7-20-84		ADDED 2		QUARTS PHILLIPS 20/50 TACH 363749 UP TO 7.5 QUARTS 7.5 Quarts T. Fisher
10/20/84	Total Time		3664.00	SMOH 1668 hrs. Compression Test Results were #1 $\frac{79}{80}$ #2 $\frac{77}{80}$ #3 $\frac{77}{80}$ and #4 $\frac{74}{80}$. Drained oil Inspected Engine and sump oil screens and added 8qts Phillips X/C 20W-50 oil. Cleaned, gapped, tested & reinstalled spark plugs. Checked magneto to engine timing. Inspected induction, oil, fuel and exhaust systems for leaks and security. Cleaned and dressed prop. Checked engine controls for proper travel and lubed. Engine was ground run and checked for leaks. (100hr cont)

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.)
Sep 9, 1983	Tach			3231 HRS installed all new spark plugs Gordon E. Huff A+B 1650056
OCT 19, 1983	Tach			Reads 3305 HRS 1319 Total Time S.M.O.H. 100 HR inspection completed at this time. oil drained screen cleaned 40 net oil added. compression @ 78 (2) 78 (3) 78 (4) 75 cleaned + gapped plugs checked Timing. inspected Muffler + Exhaust I certify that this engine has been inspected in accordance with a 100 HR inspection + Found airworthy Gordon E. Huff A+B 1650056
12-1-83	Changed oil			+ screen D.J. L. Huff A+B 1571526

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.)
12-15-83	Tach			3403.8 TSMOD 1417.8 A 100hr. inspection completed at this time. Comp/80 @ 75 (2) 75 (3) 71 (4) 74. Changed oil using Tex 30AD. Cleaned oil screen. Checked mag. Timing. Cleaned and gapped Spark plugs. Cleaned inlet fuel screen. Cleaned induction air filter. Checked induction and exhaust sys. Checked prop. Washed engine + lubed controls. I certify this engine was inspected I.A.W. the 100hr inspection and was found to be airworthy at this time. Michael C. Batem A+B 305563799
2-17-84	Tach			3456.8. Changed oil using 7ats Texaco 40 A.D. Cleaned screen Michael C. Batem A+B 305563799

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7-5-83				Conduct 100 hour inspection. Change oil
3117	RTT			using 8 quarts texaco 50 AD. Remove
1121	TSMOH			check and clean oil screen. Cylinder leakage
				1-78, 2-77, 3-78, 4-77. Clean regap, and
				pressure test all spark plugs. Check
				mag timing. Inspection done as per
				Beechcraft 100 hour inspection guide.
				Washeng.
				Jerome Washichech
				A#P 1340064.
8-4-83	3180.56			Drain oil. Add 8 qts 50W oil.
				Com Amer
				AP-538775

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.)
Aug 12, 1983				Tach Reads 3203 HRS. Installed Rebuilt
				9/10 motor
				Jerome C. Stiff A#P1650056
Aug 19, 1983				Tach Reads 3211 HRS. Total Time 1215
				100 hr inspection completed at this time. oil
				changed screen cleaned added 8 qts 50 wt
				oil compression 75/80 all cylinders checked
				Timing cleaned & gapped plugs checked muffler
				I certify that this engine has been inspected
				in accordance with a 100 hr inspection & found
				airworthy
				Jerome C. Stiff A#P1650056

[illegible]

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.)
4-15-83				Tach 3011 100 Hrs. insp. Drained oil, cleaned screen, added 8 qt Tex 50 AD oil. Cleaned plugs, checked timing, checked heater muff. I certify that this engine was inspected IAW 100 Hrs. insp and was found to be in an airworthy condition at this time. Michael's Tool CO 388-70-9269
June 13, 1983				Tach Reads 3066 HRS oil drained Screen cleaned added 8 qt 40 Det oil. Jordan. H. #A-01650056

4-15-83 Tech 3011 100 Hrs. insp.
Drained oil, cleaned screen, added 8 qt
Tex 50 WD oil. Cleaned plugs, checked
timing, checked heater mfl. I certify
that this engine was inspected IAW
100 Hrs. insp and was found to be in
an airworthy condition at this time.
Michael's Tool Co 388-70-9269

4-12-82

19__

DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
 RIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF
 HANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

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.)
1-27-81	Tach 2559	hrs.		Drained oil and added 8qts Tex. 30wt. Det. Mukul C. Bhatnagar A# 305563789
Dec 23 1981	Tach Reads 2605	T.S.M.O.H. 609	hrs.	100 hr inspection completed at This Time oil drained screen cleaned added 8q 30wt Plugs cleaned + gapped compression @ 75 @ 72 (3) 75 (4) 70- Retined LEFT Mag. Repaired carb heat box cleaned primer Nozels. Checked Exhaust + controls I certify That This Engine has been inspected in accordance with a 100 hr inspection & Found airworthy Gordon C. Stiff A# P1650056

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.)
4-6-82	2703.5	RTT		Conduct 100 hour inspection at this date.
HMT	3442.2			Change oil using 8 Quarts # 50AD. Check
TSMOH	707.5			and Clean oil screen. Cylinder leakage
				test reveals 1-78, 2-75, 3-76, 4-76.
				Check mag timing. Clean re gap and
				pressure test all spark plugs. Remove
				Exhaust system, check muffler for
				cracks and bulges, install new
				permanent type exhaust gaskets.
				Remove spinner, check prop & bulk-
				heads. Wash engine, Wash cowling.
				check # lube controls, check starter.
				check alternator. check alt belt. check
				Oil cooler. Clean Carb inlet screen.
				Jerome Wachichek
				A# P 1340064

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.)
8-10-81	Tach		2351	Changed oil 8 qts Tex 50 Det Oil change AD 1577576
9-9-81				AD. 81-16-05 D/N/A By S/N. Gary L. Adams AD1538775
9/10/81	Tach		2410	A 100 hr. inspection completed at this Time. Comp/80 @ 74 73 73 70 Drained o. l and added 8 qts Tex 50WT. Det. Cleaned oil screen. Checked mag. Timing. Cleaned and gapped Spark Plugs. Cleaned Carb. INLET Fuel Screen, cleaned induction air filter. Checked induction & exhaust sys. Washed eng. Lubed Controls. I Certify this engine was inspected I.A.W. The 100hr inspection and found airworthy Michael P. Babin AD 305563799

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.)
9-18-81	TACH		2425.76 hrs	Replaced Pressure pump & filter Michael Babin AD 305563799
10-8-81	2465			Drain oil ADD 8 qts 50W SAE Gary L. Adams AD 1538775
10/23/81	Tach		2499	T.T. 5MOH 503 A 100hr inspection completed at this Time. Comp/80 @ 76 75 75 76 Drained oil and added 8 qts Tex. 50WT. Det. Cleaned oil screen and replaced gasket. Checked mag. Timing, & Replaced Spark plugs. Cleaned carb. inlet fuel screen, cleaned induction air filter. Replaced oil press. Line. Replaced fuel press. Line. Checked exhaust & induction sys. Checked accessories. Washed engine & lubed controls. I Certify this engine was inspected I.A.W. The 100hr. inspection and was found to be in an airworthy condition at this Time Michael P. Babin AD 305563799

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.)
April 21, 1981				Tach Reads 2097 HRS. T.S.M.O.H. 101 HRS. 100 HR insp. completed at This Time drained oil cleaned oil screen. added 8 qu 40 Det oil. compression (1) 78 (2) 75 (3) 76 (4) 76 Retined Right mag cleaned & gaped plugs checked muffler. Lubbed controls. I certify That This Engine has been inspected in accordance with a 100 HR insp & Found airworthy Arden E. Stitt AXP 1650056
May 26, 1981				Tach 2171 drained oil cleaned Screen added 8 qu 50 Det oil washed Engine Arden E. Stitt AXP 1650056

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.)
6-10-81		2205		TACH TIME DRAIN OIL ADD 8 QTS 50 DET OIL Timing OK. Compression 1 75 2 74 3 78 4 77 I CERTIFY THAT THIS ENG. WAS INSPECTION 1/8/81 A 100 HR. INSPECTION AND WAS FOUND Airworthy. Arden E. Stitt AXP 1650056
7-2-81		2260		DRAIN OIL. ADD 8 QTS. 50W Arden E. Stitt AXP 1650056
July 22, 1981				Tach Reads 2305 HRS. T.S.M.O.H. 309 HRS. 100 HR insp completed at This Time 50 Det oil added Replaced air filter & intake duct. I certify That This Engine has been inspected in accordance with a 100 HR insp & Found airworthy Arden E. Stitt AXP 1650056

The aircraft and/or component identified below was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under Work Order No. #23776

Engine Model 0-320-E3D Serial No. L-30971-27A

Date February 10, 1981 Signed [Signature]
TOTAL TIME-1,923 hrs. for

G & N AIRCRAFT, INC.

GRIFFITH AIRPORT
GRIFFITH, INDIANA 46319
C. R. S. NO. 3125

Major overhaul engine to manufacturers specifications, comply with all current AD notes and Service Bulletins, overhaul or exchange Magnetos, Carburetor, Starter, and installed the following parts:

ENGINE PARTS:

1-#69371-1 gasket kit, 8-#78027 rod bolts, 8-#LW-12186 rod nuts, 1-#STD-847 crank bolts, 8-#68763 main bearing, 8-#61662 rod bearing, 4-#75413 piston, 8-#74673 piston ring, 4-#73998 piston ring, 4-#LW-13923 rod bushing, 4-#74637 rocker bushing, 4-#69603 intake hose, 4-#STD-2180 cyl drain hose, 8-#78290 hyd lifters, 8-#72877 lifter bodies, 8-#60828 piston pin plug, 1-#M2363 ignition harness, 8-#REM-40E spark plugs, 1-#STD-1211 crank plugs, 4-LW-13790 shaft, 8-#LW-12892 button, 4-#60398 bushing, 1-#CH48110 oil filter, 1-#LW-13775 impeller, 1-#60746 impeller, 1-#78528 housing, 1-#76121 tach assy, 1-#1028B ball, 1-#76097 cam, 1-#61665 gear, 2-#10-90751-19 pin, 1-#M3016 washer, 4-#74230-P05 guide, 4-#61681-P05 guide, 4-#74541 valve, 8-#LW-11795 spring, 8-#LW-11800 spring, 8-#MS-13997-3 key, 4-#MS13998-3 cap, 4-#1102 plug, 2-#71646 lock-plate, 1-#MS16625-1081 ring.

MAGNETO PARTS: (S/N 0110552R & 1010217R)

1-#4251R magneto exchange, 1-#4250R magneto exchange.

CARBURETOR PARTS: (S/N BL-0-1014)

1-#13-1521 shaft, 2-#15-483 screw, 1-#16-676 kit, 1-#24-A10 spring, 3-#29-113 clip, 1-#32-32 shaft, 1-#44-49 packing, 2-#44-223 o'ring, 1-#47-828 nozzle, 2-#60-260 bushing, 2-#78-121 washer, 1-#36-525 valve, 1-#78-388 washer, 1-#78-A109 washer, 4-#78-A110 washer, 3-#82-11 pin, 1-#194-581 plunger, 1-#233-615 needle & seat, 1-#155-226 lever, 1-#17-372 roll.

STARTER PARTS: (S/N 13976)

1-#1109657 starter exchange.

END

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.)
6/13/1981	Installed	100 hrs	This engine in N 5040 m
	Completed	100 hrs	at this time New spark plugs installed
	8 ga	30 New	Net oil added. New vacuum pump
			& Fuel pump & carburetor installed. New starter
			installed used old alternator. New fuel line
			installed Right side oil pump. I certify that
			This engine has been inspected in accordance
			with a 100 hr inspection and found airworthy
			Heaton & Lett ACP 1650056

Service Warranty

G & N Aircraft, Inc. warrants any aircraft engine remanufactured by G & N Aircraft, Inc. to be free from defects in material and workmanship under normal use and service for a period of Six (6) Months or One Hundred (100) Hours, whichever shall occur first. G & N Aircraft, Inc. will not assume freight charges, travel, or delivery expenses incurred in the execution of this warranty. Installation charges, airframe repairs, and crankcases and cylinders developing cracks after remanufacture, are not covered under the terms of this warranty.

After Six (6) Months or One Hundred (100) Hours, a pro rated warranty of Two (2) Years or Six Hundred (600) Hours, whichever shall occur first, shall apply.

This warranty does not apply unless this engine is installed properly, and maintained in accordance with the current recommendations of the manufacturer, as specified in pertinent factory manuals and/or service bulletins. This warranty will not apply to any engine which may, in any manner, have been repaired or altered outside the shops of G & N Aircraft, Inc. No warranty is made with respect to any and all engines remanufactured for customers furnishing their own parts. This warranty is expressly in lieu of all other warranties and representatives, expressed or implied, and all other obligations or liabilities on the part of G & N Aircraft, Inc.

G & N AIRCRAFT, INC.

By

R. E. Gulliland

Title

Vice President

Date

February 10, 1981

Warranty Number

23776

Engine Serial Number

L30971-27A

Aircraft Registration Number

ENGINE RECORD — GENERAL INFORMATION

MANUFACTURER Lycoming MODEL O-320-E3D
SERIAL L-30971-27A TYPE CERTIFICATE _____

THIS ENGINE IS CURRENTLY INSTALLED IN AIRCRAFT _____

MINIMUM OCTANE FUEL _____ OIL GRADE SUMMER _____ WINTER _____

MAGNETO TIME _____ POINT SETTING _____ FIRING ORDER _____

SPARK PLUG GAP _____

MFG. RECOMMENDED OVERHAUL AT _____ HOURS.

CAUTION:

Use only straight mineral oil during break-in period or for the first fifty (50) hours, whichever occurs first.

The Standard



ENGINE LOG