

THE  
**adlog**<sup>TM</sup>

AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

**LEFT ENGINE  
MAINTENANCE  
RECORDS**

# ENGINE MAINTENANCE RECORDS

Log No. II

Aircraft Registration No. N 8971Y

Engine Manufacturer LYCOMING

Model IO-320-C1A

Serial No. L4014-55A

Date installed on aircraft 12-17-87

Time Between Overhauls (TBO) 1800 Hours

If used on multi-engine aircraft:

- Right
- Left
- Front
- Rear

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


8/1/94

LEFT ENGINE LOG ENTRY:

LIO 320 CIA Service Number L 4014-55A  
 Engine Total: 2703.18  
 Engine SMOH: 603.18  
 New Tack Reading: 1783.00

Changed oil with 8 quarts of Aeroshell 15W50.  
 Changed oil filter.  
 Differential compressor check: 1-75 2-78 3-78 4-75.  
 Installed 8 new spark plugs.  
 Removed old Bendix magnetos and installed 2 new Slick K-4575.  
 Installed 2 new harness kits.  
 Replaced upper oil cooler, oil line and fire sleeve.  
 Installed heat shield around turbocharger exhaust portion.  
 Replaced all adell clamps to comply with A.D. # 93-02-05.  
 Replaced turbo intake ducts.  
 Replaced vaccuum pump intake and exhaust hoses.  
 Replaced all valve cover gaskets. Lubricated all cables.  
 Adjusted prop dome pressure.  
 Replaced fuel pump vent tube.

At the time of this inspection it is certified that this engine had been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

DATE 8/1/94 TOTAL HRS 2703.18  
 I certify that this Engine 603.18 SMOH  
 has been inspected with a  
100 HR inspection and was  
 determined to be in Airworthy Condition  
 D. G. MacMillan LA. 1304844  


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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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<p><u>LEFT ENGINE LOG ENTRY:</u> <span style="float: right;">4-10-95</span></p> <p>L10 320 CIA Service Number L 4014-55A            Engine Total: 2771.25            Engine SMOH : 671.25            New Tack Reading: 1851.07</p> <p>Changed oil with eight quarts of Aeroshell 15W50.            Changed oil filter.            Differential Compression Check: 1=80/72 2=80/78 3=80/74            4=80/72.</p> <p>Cleaned and gapped spark plugs.            Replaced lower turbo oil hose and firesleeve.            Replaced upper oil cooler hose and firesleeve.            Replaced lower oil cooler hose and firesleeve.            Replaced alternator V belt.            Replaced fuel line and fire sleeve from fuel injector servo unit to fuel distribution module.</p> <p>At the time of this inspection it is certified that this engine had been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p>				
				<p style="text-align: right;"><i>95 DMM</i></p> <p>DATE <u>4/10/94</u> TOTAL HRS <u>2771.25</u>            I certify that this <u>Engine</u> SMO <u>671.25</u>            has been inspected with a  <u>100 HRC</u> inspection and was            determined to be in Airworthy Condition            D. G. MacMillan LA. 1304844  <i>D. G. MacMillan</i></p>
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LEFT ENGINE LOG ENTRY

4-24-96

L10 320 CIA Serial Number L-4014-55A  
 Tack Time: 1923.34  
 Engine Total: 2843.52  
 SMOH: 743.52

Cylinder # 1 and # 3 overhauled by Chuck Ney Enterprises, Inc.  
 Lapped valves. Installed new valve guides.  
 Installed new piston rings. Honed cylinders.  
 1=78/80 2=74/80 3=78/80 4=75/80  
 Installed oil filter and eight quarts of 40W mineral oil.  
 Overhauled turbo charger.  
 Overhauled starter. *→ AIR (AW)*  
 Installed Brackett oil filters STC # SA71GL.  
 Cleaned and gapped plugs.  
 Timed both magnetos.  
 Installed four new exhaust gaskets.

4/24/96 2843<sup>52</sup> 743<sup>52</sup> 1923<sup>34</sup>

2843<sup>52</sup> TT

DATE 4/24/96 TOTAL HRS 743<sup>52</sup> SMO

I certify that this Engine  
 has been inspected with a  
100 hr inspection and was  
 determined to be in Airworthy Condition

D. G. MacMillan LA. 1304844

*D. G. MacMillan*

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<p><u>LEFT ENGINE LOG ENTRY:</u> <span style="float: right;">6-17-98</span></p> <p>IO 320 C1A Serial Number L-4014-55A                      Tack Time: 2038.14                      Engine Total: 2958.42                      SMOH: 19.21</p> <p>Compression test: 1-76 2-74 3-76 4-75                      Oil changed with eight quarts of Aeroshell 15-50.                      Changed oil filter.                      Cleaned and gapped spark plugs.                      Ran and checked for leaks.  <i>ENGINE DOWN</i></p> <p>I certify that this <del>airframe</del> is in airworthy condition in accordance with <del>annual</del> inspection.  <i>100 HR</i></p> <p style="text-align: right;"><i>D.G. Mac Millan A1P1304844</i></p>
				<p><u>LEFT ENGINE LOG ENTRY:</u> <span style="float: right;">6-21-99</span></p> <p>IO 320 C1A                      Serial Number: L-4014-55A                      Tach Total: 2075.18                      Engine Total: 2995.46                      SMOH: 56.25</p> <p>Compression Test # 1-75, # 2-77, # 3-75, # 4-76.                      Oil change with 8 quarts of Aeroshell 15/50 and a new oil filter. Cleaned and gapped plugs.                      Cleaned injectors. Ran and checked for leaks.</p> <p>I certify that this engine has been inspected with a 100 hour inspection and was determined to be in airworthy condition.</p> <p style="text-align: right;"><i>D.G. Mac Millan 6/21/99</i></p> <p>D.G. Mac Millan, I.A. 1304844</p>
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7-12-00	3033.5	94.29	2113.22	C/W ANNUAL INSPECTION DRAINED OIL R&R Filter compressions: ① $76/90$ ② $77/90$ ③ $75/90$ ④ $76/90$ cleaned gapped & tested spark plugs serviced engine w/ 8 qts 15W50 oil Ran engine; Leak & Functional check satisfactory. I CERTIFY THIS Engine Has BEEN inspected I/A/W an ANNUAL inspection & was determined to BE IN AN AIRWORTHY condition. <i>Changping IA14974276</i>
8-11-01			2148.05	C/W ANNUAL INSPECTION DRAINED OIL, R&R Filter compressions: ① $78/90$ ② $75/90$ ③ $77/90$ ④ $79/90$ cleaned gapped & tested spark plugs serviced engine w/ 8 qts 15W50 oil Ran engine; Leak & Functional check satisfactory. I CERTIFY THIS Engine Has BEEN inspected I/A/W an ANNUAL inspection & was determined to BE IN AN AIRWORTHY condition. <i>Changping IA14974276</i>
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12-14-02			2215.00	<p>C/W ANNUAL inspection  DRAINED OIL, L&amp;R Filter  compressions: ① 74/80 ② 77/80 ③ 74/80 ④ 75/80  cleaned gapped &amp; tested spark plugs  serviced engine w/ 8 qts 15W50 oil  Installed GAMI Injectors (see Form 337)  Ran engine; Leak &amp; Functional check  satisfactory. I certify this engine has  been inspected I/A/W an ANNUAL inspection  &amp; was determined to be in an AIRWORTHY  condition. <i>Charles Rosky</i> IA149742776</p>
				<p>LEFT ENGINE LOG ENTRY  N8971Y  April 6, 2004  TACH: 2270.2</p> <p>C/W ANNUAL INSPECTION  DRAINED OIL, R&amp;R FILTER  COMPRESSIONS: 1)77/80 2)74/80 3)77/80 4)76/80  CLEANED, GAPPED &amp; TESTED SPARK PLUGS  C/W AD 93-02-05 INJECTOR LINES BY INSPECTION  SERVICED ENGINE W/ 8 qts 15W50 OIL  RAN ENGINE; LEAK &amp; FUNCTIONAL CHECK  SATISFACTORY. I CERTIFY THIS ENGINE HAS BEEN  INSPECTED I/A/W AN ANNUAL INSPECTION &amp; WAS  DETERMINED TO BE IN AN AIRWORTHY CONDITION.</p> <p><i>Charles Rosky</i>  CHARLES ROSKY  IA149742776</p>
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7/17/04			2284	Remove Cover, removed all plugs Inspected cleaned + Gap + Painted reinstalled, Reset Mag To Engine Timing, Adjusted Mixture + set Idle, Install seat hose from Front Baffle to ALT, Recowled Engine, OK for return to Service. <i>Michael D. Vieke</i> A & P 308509011 I.A.
				TACH-WRONG ↑ ENTRY M.V. A & P 308509011 I.A. <i>Michael D. Vieke</i>
1-28-2005	TACH	2279.37		CHANGED OIL + FILTER, SERVICED WITH 8 QTS AEROSHELL 15W50. CUR OPEN OLD FILTER + CK'D FOR METAL-OK- CLEANED + GAPPED PLUGS. <i>MICHAEL D. VIEKE</i> A & P 308509011 I.A.
4-6-2005	TACH	2309.14		DRAINED OIL + CHANGED FILTER, SERVICED WITH 8 QTS AEROSHELL 1000 + A CH48110 FILTER. CUR OPEN OLD FILTER + CK'D FOR METAL-OK- REPLACED ALL 8 SPARK PLUGS, CK'D TIMING, CK'D COMPRESSION AS FOLLOWS: #1-72 #2-76 #3-74 #4-75 ALL OVER 80 PSI HOT. CK'D INTAKE + EXHAUST SYSTEM, CK'D FUEL + OIL LINES, CK'D + LUBED ENGINE + PROP CONTROLS, REPLACED ENGINE AIR FILTER, CK'D TURBO SYSTEM + LUBED WASTE GATE. CK'D AOS TO DATE, <del>AD</del> AD 02-26-01 INSPECTOR LINES, AD 04-11-14 CORRECTED BY AD 04-10-14 CI DUE AT PRDP STRIKE OR OVERHAUL, WASHED DOWN + TEST RAN-OK-
	TTE	3202.23		
	SMDH	1102.23		
				<p>I Certify this <u>ENGINE</u> to be in an airworthy condition. I/A/W an <u>ANNUAL</u> inspection. <i>Michael D. Vieke</i> A &amp; P 308509011 I.A.</p>
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Reg No: N8971Y      Serial No: 39-134      Date: 02-10-2006      Hobbs: 2514  
 Eng Model #: L10-320-C1A      Eng S/N: L29266A      Eng TT: 2514

Replaced alternator idler pulley bearing P/N-78629 and alternator drive belt. Reinstalled prop using new o-ring P/N-MS28775-228. Ground ran engine ops. checked and checked for leaks, checked okay.

I certify this Engine to be airworthy with respect to work performed. Details are on file at this office under Shop order number JAN-24900

Signed: *Greer Mitchell* Greer Mitchell  
 For Mercury Air Center 100 South Hangar Drive Jackson MS 39208  
 CRS#MOQR197Y (601) 939-9366

5-2-2006	TACH	2459.64		DRAINED OIL & CHANGED FILTER, SERVICED WITH 8
	TTE	3352.73		QTS AEROSPEL W/OIL & COPPER FILTER, CLEANED &
	SMOLT	1252.73		GAPED PLUGS, CK'D TIMING, INTAKE, EXHAUST, FUEL
				& OIL LINES, TURBO, INJECTORS & LINES, CK'D &
				LUBED ENGINE, TURBO & PROP CONTROLS, REPLACED
				ENGINE AIR FILTER ELEMENT, CK'D COMPRESSION AS
				FOLLOWS: #1-78 #2-75 #3-72 #4-79 ALL OVER 80 PSI NOT
				CHAD 02-26-01 INJECTION LINES, CK'D ADS TO DATE
				WASHED DOWN & TEST RAN-OK

I certify this ENGINE to be in an airworthy condition. I/A/W an ANNUAL inspection.  
 Michael D. Vieke *[Signature]*  
 A & P 308509011 I.A.

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5-22-2007	TACH	2624.37		DRAINED OIL & CHANGED FILTER, SERVICED WITH 8 QTS
	TTE	3517.52		AEROSHEK WIND & ACH48/10-1 FILTER, CUT OPEN OLD
	SMO#	1417.52		FILTER & CRD FOR MOTAL -OK -CLEANED & GAPPED PLUGS,
				CRD TIMING, INTAKE, EXHAUST, FUEL & OIL LINES,
				TURBO, ENGINE MOUNT & BUSHINGS, CRD COMPRESSION
				AS FOLLOWS: #1-78 #2-74 #3-70 #4-78 ALL OVER 80 PSI

fo

AMETEK B&S Aircraft Parts

CRD INJECTORS & CLAMPS, CRD & LUBED ENGINE,  
 P & TURBO CONTROLS, CWAD 02-26-01 INJECTOR LINES  
 AMPS, AD 05-26-10 SUPERCEDED BY AD 06-12-07 &  
 N/A TYPE CYLINDERS, AD 07-04-19 REVISED BY AD  
 04-19A1 & IS N/A TYPE CYLINDERS, CRD ADS  
 2007-10 WASABO DOWN & TEST RAN -OK-

I Certify this ENGINE to be in an  
 airworthy condition. I/AW an ANNUAL  
 inspection.  
 Michael D. Vieke *[Signature]*  
 A & P 308509011 I.A.

Date: 6/29/2007; Aircraft: N8971Y; Type: PIPER PA-39; S/N: 39-134; Hobbs: 2687.00; Tach: 0.00; Total Time: 0.00; Engine - Type: , S/N: , Time: 0.00; Prop - Type: , S/N: , Time: 0.00  
 Shop Order #: SH-07-0765

Discrepancy:2  
 LEFT ENGINE WILL NOT MAKE POWER  
 Corrective Action:2  
 INSPECTED INTAKE SYSTEM, NO DEFECTS NOTED. REMOVED CLEANED, INSPECTED AND REINSTALLED ALL FUEL NOZZLES. REMOVED, CLEANED, INSPECTED, REINSTALLED ALL SPARK PLUGS. INSTALLED OVERHAUL FUEL INJECTOR SERVO PN 2524242(RSA-5AD1) SN 21141, OVERHAUL BY AMETEK B&S AIRCRAFT PARTS & ACCESSORIES UNDER THEIR WO #R07-03965. ADJUSTED AS NEEDED IDLE STOP AND IDLE MIXTURE, RAN ENGINE AND LEAK CHECKED, NO DEFECTS NOTED. ALL WORK PERFORMED IN REFERENCE TO AVCO LYCOMING OVERHAUL MANUAL PN 60294-7.

Discrepancy:3  
 PILOT REPORTED STARTER ON LH ENGINE NOT ENGAGING AT TIMES  
 Corrective Action:3  
 CLEANED AND LUBRICATED LH STARTER DRIVE SPLINES, RAN ENGINE, NO DEFECTS NOTED.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current regulations of the Federal Aviation Administration and was found airworthy and is approved for return to service. Pertinent details of the repair are on file at this repair station.

Signed: *[Signature]* Dated: 06/29/07  
 Tri-State Aero, Inc. CRS AHTR102C 6101 Flightline Drive Evansville, Indiana 47725 812-426-1221

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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5-22-2007	TACH	2624.37		DRAINED OIL & CHANGED FILTER, SERVICED WITH 8 QTS
	TTE	3517.52		AEROSHELL LIQD & A CH46110-1 FILTER, CUT OPEN OLD
	SMO#	1417.52		FILTER & CRD FOR MOTAL -OK -CLEANED & GAPPED PLUGS,
				CRD TIMING, INTAKE, EXHAUST, FUEL & OIL LINES,
				TURBO, ENGINE MOUNT & BUSHINGS, CRD COMPRESSION
				AS FOLLOWS: #1-78 #2-74 #3-70 #4-78 ALL OVER 80 PSI
				HOT. CRD INJECTORS & CLAMPS, CRD & LUBED ENGINE,
				PROP & TURBO CONTROLS, CRD 02-26-01 INJECTOR LINES
				& CLAMPS, AD 05-26-10 SUPERCEDED BY AD 06-12-07 &
				25 N/A TYPE CYLINDERS, AD 07-04-19 REVISED BY AD
				07-04-19A1 & 25 N/A TYPE CYLINDERS, CRD ADS
				JH4 2007-10 WASPED DOWN & TEST RAN -OK -
				I Certify this <u>ENGINE</u> to be in an
				airworthy condition. I/AW an <u>ANNUAL</u>
				inspection.
				Michael D. Vieke <i>[Signature]</i>
				A & P 308509011 I.A.

**Tri-State Aero**

Date: 6/29/2007; Aircraft: N8971Y; Type: PIPER PA-39; S/N: 39-134; Hobbs: 2687.00; Tach: 0.00; Total Time: 0.00; Engine - Type: , S/N: , Time: 0.00; Prop - Type: , S/N: , Time: 0.00

Shop Order #: SH-07-0765

Discrepancy: 2

LEFT ENGINE WILL NOT MAKE POWER

Corrective Action: 2

INSPECTED INTAKE SYSTEM, NO DEFECTS NOTED. REMOVED CLEANED, INSPECTED AND REINSTALLED ALL FUEL NOZZLES. REMOVED, CLEANED, INSPECTED, REINSTALLED ALL SPARK PLUGS. INSTALLED OVERHAUL FUEL INJECTOR SERVO PN 2524242(RSA-5AD1) SN 21141, OVERHAUL BY AMETEK B&S AIRCRAFT PARTS & ACCESSORIES UNDER THEIR WO #R07-03965. ADJUSTED AS NEEDED IDLE STOP AND IDLE MIXTURE, RAN ENGINE AND LEAK CHECKED. NO DEFECTS NOTED. ALL WORK PERFORMED IN REFERENCE TO AVCO LYCOMING OVERHAUL MANUAL PN 60294-7.

Discrepancy: 3

PILOT REPORTED STARTER ON LH ENGINE NOT ENGAGING AT TIMES

Corrective Action: 3

CLEANED AND LUBRICATED LH STARTER DRIVE SPLINES, RAN ENGINE, NO DEFECTS NOTED.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current regulations of the Federal Aviation Administration and was found airworthy and is approved for return to service. Pertinent details of the repair are on file at this repair station.

Signed: *[Signature]*

Dated: 06/29/07

Tri-State Aero, Inc. CRS AHTR102C 6101 Flightline Drive Evansville, Indiana 47725 812-426-1221

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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<p><b>Tri-State Aero</b></p> <p>Date: 8/21/2007; Aircraft: N8971Y; Type: PIPER PA-39; S/N: 39-134; Tach: 2639.58; Total Time: 2639.58; Engine 1 Type: , S/N: , Time: 0.00; Prop 1 Type: , S/N: , Time: 0.00; Engine 2, Type: , S/N: , Time: 0.00; Prop 2, Type: , S/N: , Time: 0.00            Shop Order #: SH-07-0848            Discrepancy:1  <b>PERFORM PRELIMINARY INSPECTION.</b></p> <p>PRELIMINARY INSPECTION COMPLIED WITH, AND ANY DISCREPANCIES NOTED ARE LISTED ON WORK ORDER WORKSHEET.</p> <p>Discrepancy:2  <b>LEFT ENGINE WILL NOT MAKE POWER.</b></p> <p>REMOVED ENTIRE ENGINE COWLING, TROUBLE SHOT FUEL SYSTEM. FLOWED FUEL FROM FUEL INJECTOR LINES, FUEL SERVO INLET FUEL LINE, AND FROM LH FUEL STRAINER. ALL THREE SOURCES HAD DIRT AND DEBRIS, WHICH CLOGGED TWO FUEL INJECTOR NOZZLES ON LEFT ENGINE. ALSO FOUND DIRT AND DEBRIS IN FUEL SERVO FINGER SCREEN PORT, AND IN FUEL STRAINER. ALL DISCREPANCIES THAT WERE FOUND ARE LISTED SEPARATELY ON THIS WORK ORDER. RE-INSTALLED ENTIRE ENGINE COWLING FOLLOWING ALL REPAIRS.</p> <p>Discrepancy:5            FLUSH DIRT AND DEBRIS FROM ALL LEFT ENGINE FLEXIBLE FUEL LINES. REPLACE ANY LINES THAT ARE DRY WROTTED OR DAMAGED.</p> <p>REMOVED ALL LEFT ENGINE FLEXIBLE FUEL LINES FROM ENGINE NACELLE FIRE WALL FORWARD. FLUSHED LINES WITH ALCOHOL AND COMPRESSED AIR. RE-INSTALLED ALL FLEXIBLE FUEL LINES</p> <p><b>Tri-State Aero</b></p> <p>AND FLUSHED AGAIN WITH FUEL. TORQUE ALL FITTINGS AND LEAK CHECKED UNDER FUEL PRESSURE NO LEAKS NOTED AT THIS TIME.</p> <p>Discrepancy:6            FLUSH DIRT AND DEBRIS FROM FUEL DISTRIBUTION BLOCK, FUEL INJECTOR LINES, AND FUEL SERVO.</p> <p>RE-MOVED LEFT ENGINE FUEL DISTRIBUTION BLOCK AND FLUSHED OUT WITH ALCOHOL AND LOW PRESSURE COMPRESSED AIR. REMOVED ALL LEFT ENGINE FUEL INJECTOR LINES TO EACH CYLINDER, AND FLUSHED OUT WITH ALCOHOL AND COMPRESSED AIR. FLUSHED OUT LEFT ENGINE FUEL SERVO WITH ALCOHOL AND LOW PRESSURE COMPRESSED AIR. RE-INSTALLED ALL OF ABOVE MENTIONED PARTS AND FLUSHED OUT AGAIN WITH FUEL. TORQUED ALL FUEL LINES AND LEAK CHECKED UNDER FUEL PRESSURE. NO DEFECTS NOTED AT THIS TIME.</p> <p>Discrepancy:7            CLEAN ALL LEFT ENGINE FUEL INJECTOR NOZZLES.</p> <p>REMOVED AND CLEANED ALL OF LEFT ENGINE FUEL INJECTOR NOZZLES. RE-INSTALLED NOZZLES I/A/W GAMI-JECTORS INSTALLATION INSTRUCTIONS. INSTALLED NEW O-RINGS ON INJECTORS AND INSTALLED UPPER DECK PRESSURE FITTINGS AND LINES. LEAK CHECKED FUEL NOZZLES UNDER FUEL PRESSURE. NO LEAKS NOTED AT THIS TIME.</p> <p>Discrepancy:11            NUMBER THREE CYLINDER FUEL INJECTOR LINE FITTING CRACKED AT DISTRIBUTION BLOCK.</p> <p>INSTALLED NEW NUMBER THREE FUEL INJECTOR LINE PART# LW12098-0-210. LEAK CHECKED FUEL</p>				
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<p><b>Tri-State Aero</b></p> <p>LINE UNDER FUEL PRESSURE. NO LEAKS NOTED AT THIS TIME.</p> <p>Discrepancy:13 AD 02-26-01 FUEL INJECTION LINE INSPECTION DUE ON LEFT ENGINE.</p> <p>COMPLIED WITH AIRWORTHINESS DIRECTIVE 02-26-01 AMEND. 39-12986, DATED 1/31/03, (FUEL INJECTION LINES), INSPECTED IN ACCORDANCE WITH TEXTRON LYCOMING SB 342D, (REF AD PARAGRAPH C).</p> <p>Discrepancy:16 LEFT ENGINE NUMBER 2 CYLINDER EXHAUST HAS MISSING HOLD DOWN STUD AND ATATCHING HARDWARE.</p> <p>REMOVED EXHAUST STACK FROM LEFT ENGINE NUMBER 2 CYLINDER INSTALLED HELICOIL AND NEW STUD IN REFERENCE TO AC4313-1B CHAPTER 4, AND REINSTALLED EXHAUST STACKS FOR CYLINDER #S 1,2,3,4.</p> <p>Discrepancy:17 LT ENGINE NUMBER 3 CYLINDER EXHAUST RISER FLANGE MOUNT HARDWARE LOOSE.</p> <p>REMOVED EXHAUST STACKS FROM LEFT ENGINE. INSTALLED HELI-COIL AND NEW STUD FOR NUMBER 3 CYLINDER. IN REFERENCE TO AC4313-1B SECTION 4. RE-INSTALLED EXHAUST STACKS FOR CYLINDER #S 1,2,3,4.</p> <p>Discrepancy:18 LEFT ENGINE MANIFOLD PRESSURE LINE CRACKED.</p> <p><b>Tri-State Aero</b></p> <p>FABRICATED AND INSTALLED NEW LEFT ENGINE MANIFOLD PRESSURE LINE FROM CYLINDER PORT FITTING TO RUBBER FLEX LINE BEHIND ENGINE. USED OLD LINE AS TEMPLATE FOR MAKING NEW LINE.</p> <p>Discrepancy:20 LEFT ENGINE ALTERNATOR BELT COMMING APART.</p> <p>INSTALLED NEW ALTERNATOR DRIVE BELT WHILE PROPELLER WAS REMOVED FOR OTHER MAINTENANCE.</p> <p>Discrepancy:22 LEFT ENG OIL COOLER SUPPORT BRACKET CRACKED</p> <p>FABRICATED AND INSTALLED PATCH ON LEFT ENGINE OIL COOLER SUPPORT BRACKET.</p> <p>The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current regulations of the Federal Aviation Administration and was found airworthy and is approved for return to service. Pertinent details of the repair are on file at this repair station.</p> <p>Signed: <u>Jeremy S. Burt</u> Dated: <u>8/21/07</u> Tri-State Aero, Inc. PRS AHTR102C 6101 Flightline Drive Evansville, Indiana 47725 812-426-1221</p>				
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page



**LEFT ENGINE**

September 27, 2007  
N8971Y

Hobbs 2646.8

Lycoming IO-320-C11

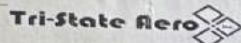
S/N L4014-55A

Installed new Fuel Nozzle P/N 9143 in #2 cylinder. Installed new Fuel Injector Line from flow divider to nozzle P/N LW12098-0-0-140. Complied with AD 02-26-01 "Fuel Injector Lines" by inspection. No leaks noted, engine run and leak check satisfactory.

*The aircraft and/or component identified above was repaired and inspected in accordance with the current FAR's and was found to be airworthy with respect to work performed and was returned to service.*

Date 9/27/07 Work Order #07-3123

*Michael J. Gick* A&P17432421A  
Lafayette Aviation, Inc.  
100 Aviation Dr.  
West Lafayette, IN. 47906



Date: 9/25/2007; Aircraft: N8971Y; Type: PIPER PA-39; S/N: 39-134; Tach: 0.00; Total Time: 2639.60; Engine 1 Type: , S/N: , Time: 0.00; Prop 1 Type: , S/N: , Time: 0.00; Engine 2, Type: , S/N: , Time: 0.00; Prop 2, Type: , S/N: , Time: 0.00

Shop Order #: SH-07-0972

Discrepancy:2

LEFT ENGINE WILL NOT RUN.

Corrective Action:2

REMOVED CLEANED AND RE-INSTALLED BOTTOM PLUGS FOR THE RIGHT MAG. REMOVED AND CLEANED ALL FUEL INJECTOR NOZZLES. NOZZLES #1,2 WERE CLOGGED. RE-INSTALLED ALL FUEL INJECTOR NOZZLES GROUND RUN ENGINE OPERATIONAL CHECK GOOD AT THIS TIME.

Discrepancy:3

LEFT ENGINE FUEL FLOW DISTRIBUTION BLOCK NEEDS SENT OUT FOR REPAIR.

Corrective Action:3

REMOVED LEFT ENGINE FUEL FLOW DIVIDER PART# 2524218-2, SERIAL# 586L. SENT TO B&S AIRCRAFT FOR REPAIR ON 8/27/07. REINSTALLED FLOW DIVIDER PN: 2524218-2, SN: 586L, OVERHAULED BY D & G SUPPLY. REFERENCE W/O 17444 PERFORMED LEAK & OPERATIONAL CHECK NO DEFECTS NOTED AT THIS TIME

Discrepancy:4

CHANGE LEFT ENGINE FUEL CARRYING HOSES.

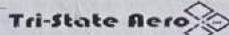
Corrective Action:4

REMOVED ALL ENGINE FUEL CARRYING HOSES ON LEFT ENGINE REPLACED WITH NEW PT#S 111F504-4S-0090 111F417-5S-0146, 7 124f001-4CR-0320 RAN ENGINE FOR LEAK CHECK NO DEFECTS NOTED AT THIS TIME

Discrepancy:5

CHANGE LEFT ENGINE OIL AND OIL FILTER.

Corrective Action:5



CHANGED LEFT ENGINE OIL AND OIL FILTER. INSPECTED OIL FILTER CARTRIDGE, NO DEFECTS NOTED. SERVICED WITH AEROSHELL 100 and CH48110 FILTER. RAN AIRCRAFT FOR LEAK CHECK NO DEFECTS NOTED

Discrepancy:6

FUEL INJECTOR LINE ON #2 CYLINDER HAS A CRACK IN IT

corrective Action:6

INSTALLED NEW FUEL INJECTOR LINE WITH NEW RAN ENGINE FOR OPERATIONAL & LEAK CHECK NO DEFECTS NOTED AT THIS TIME

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with the current regulations of the Federal Aviation Administration and was found airworthy and is approved for return to service. Pertinent details of the repair are on file at this repair station.

Signed: *Shawn G. Reed* Dated: 8-31-07

Tri-State Aero, Inc. CRS AHTR102C 6101 Flightline Drive Evansville, Indiana 47725 812-426-1221

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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RIGHT ENGINE

October 12, 2007  
N8917Y

Hobbs 2676.8  
Piper PA-39

Changed oil and oil filter, inspected filter for debris, none noted. Serviced engine with Aeroshell 80W and LW16702. Engine run and leak check satisfactory.

*The aircraft and/or component identified above was repaired and inspected in accordance with the current FAR's and was found to be airworthy with respect to work performed and was returned to service.*

Date 10-12-2007 Work Order #07-3157

*Michael J. Giehl*

Lafayette Aviation, Inc.  
1630 Aviation Dr.  
West Lafayette, IN. 47906  
AHRR100C

5-6-2008 2732.55

DRAINED OIL & CHANGED FILTER, SERVICED WITH 8 QTS AEROSHELL

JTE 3625.68

W100 & A C48110 & FILTER, CK'D OLD FILTER FOR METAL - OK -

SMOH 1526.12

CK'D COMPRESSION AS FOLLOWS: #1-78 #2-73 #3-71 #4-77 ALL OVER 90 PSI HOT. CK'D TIMING, FUELY OIL LINES, REPLACED ALL 4 SPARK PLUGS, REPLACED THE ENGINE AIR FILTER ELEMENT, CK'D TURBO, CK'D AOS TO DATE, CHANG'D O2-26-01 INJECTOR LINES, WASHED DOWN & TEST RUN - OK.

I Certify this ENGINE to be in an airworthy condition. I/A/W an ANNUAL inspection.

Michael D. Vieke  
A & P 808509011 I.A.



May 22, 2008 N8971Y LH Tach 2732.9 Piper PA39 S/N 39-76

Installed O/H Alternator P/N ALX8521 S/N H1237212 on RH side. Repaired wires on LH alternator, operational check satisfactory.

*The aircraft and/or component identified above was repaired and inspected in accordance with the current FAR's and was found to be airworthy with respect to work performed and was returned to service.*

Date 05-22-2008 Work Order 08-3385

*Michael J. Giehl*

Lafayette Aviation, Inc.  
1630 Aviation Dr.  
West Lafayette, IN 47906  
Repair Station #AHRR100C

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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LEFT ENGINE  
N8971Y

IO-320 CIA  
August 29, 2008

S/N L-4014-55A  
Tach 2774.11

Changed oil and oil filter this date. Inspected filter for debris, none noted. Serviced engine with Aeroshell 80W. Engine run and leak check satisfactory.

*The aircraft and/or component identified above was repaired and inspected in accordance with the current FAR's and was found to be airworthy with respect to work performed and was returned to service.*

Date 8/29/2008 Order #08-3509

Lafayette Aviation, Inc.  
1630 Aviation Dr.  
West Lafayette, IN. 47906  
Repair Station # AHRR100C

LEFT ENGINE TACH 2809.54  
CHANGED OIL & FILTER. SERVICED  
WITH 7 QTS AEROSHELL W100 & A  
AA 48110 OIL FILTER

MICHAEL D. VIEKE  
*M.D.V.* ATP 308509011FA

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LEFT Engine  
August 27, 2009  
N8971Y

Lycoming IO-320-B1A  
Tach/Hobbs 2868.5

Changed oil and oil filter. Inspected filter for debris, none noted. Serviced engine with Aeroshell 80W. Cleaned Turbo Oil Filter.  
Complied with AD 08-14-07 "Fuel Injector Line" by inspection, no defects noted.  
Installed new Push Rod Tube Seals on #3 & #4 cylinders.  
Installed O/H Prop Governor P/N F6-3A S/N A6081T.  
Run, leak, and operational check satisfactory.

*The aircraft and/or component identified above was repaired and inspected in accordance with the current FAR's and was found to be airworthy with respect to work performed and was returned to service*

Date 08-27-2009 Work Order 09-3828

*Michael J. Gick*  
Lafayette Aviation, Inc.  
1630 Aviation Dr.  
West Lafayette, IN. 47906  
Repair Station #AHRR100C

11/05/09			LEFT ENGR 29161	Oil: Filter Checked, satisfactory	RW Kelly
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March 25, 2010

LEFT Engine      Textron Lycoming IO-320-C1A      S/N L-4014-55A  
N8971Y      Tach/Hobbs 2994.9      T.T. 3915.2      TSOH 976.1

Complied with 100 hour/Annual inspection of engine this date in accordance with Pipers Inspection Report # 230-209. Changed oil, and oil filter. Checked filter for debris, none noted. Serviced engine with Aeroshell 80W.  
Cleaned, gapped, and checked spark plugs. Checked Magneto timing.  
Compression checks #1 74/80 #2 73/80 #3 72/80 #4 75/80  
Complied with **AD 08-14-07** "Fuel Injection Lines" by inspection of LH & RH fuel injection lines, no defects noted.  
Run, leak, and operational check satisfactory.  
See separate file for AD note listing and compliance.

*I certify that this engine has been inspected in accordance with an Annual/100 hour inspection and was determined to be in an airworthy condition. Pertinent details of this inspection are on file at this agency under Work order 10-3987 Dated 03-25-2010*

*Michael J. Gick*  
Lafayette Aviation, Inc.  
1630 Aviation Dr.  
West Lafayette, IN. 47906  
Repair Station # AHRR100C

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
	3-22-2011	TACH		TOTALS brought forward from previous page
			3111.00	CHANGED OIL & FILTER, SERVICED WITH 6 QTS AEROSHELL W100 & A CH48110-2 FILTER CUT OPEN OLD FILTER & <del>SPARKED</del> FOR METAL-OK-TEST RAN-OK. MICHAEL D. VIEKO <i>[Signature]</i> ADP 3085090117A.
4-8-2011				CHANGED OIL & FILTER, SERVICED WITH 6 QTS
TACH 3/	42.20			AEROSHELL W100 & A CH48110-2 FILTER, CUT OPEN
ITE	4035.33			OLD FILTER & CK'D FOR METAL-OK- CLEANED,
SMOIT	<del>1925.27</del> 1096.4			GAPPED & ROTATED PLUSS, CK'D TIMING, INTAKE, EXHAUST, TURBO, FUEL LINES, INJECTION SYSTEM, CLEANED INJECTORS, ENG MOUNT,
				CK'D COMPRESSION ALL FOLLOWS: #1-75 #2-71 #3-74 #4-74 ALL OVER 80 PSI HOT, CK'D LUBED
				ENGINE & PROP CONTROLS -TEST RAN-OK-
				CWAD 09-14-02 INJECTOR LINES, CWAD 03-14-03 FUEL PUMP VISUAL-OK- AD 07-02-03 A/Q W/N 2577258
				INSTALLED 3-25-10 (SEE AD LIST DATED 3-25-10 MICHAEL J. GICK LAFAYETTE AVIATION) C
				SUB-TOTALS this page
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
5-30-2012				<p>CHANGED OIL &amp; FILTER, SERVICED WITH 6 QTS AEROSHELL W100 &amp; A CH48110-2 FILTER, CUT OPEN OLD FILTER &amp; CAD FOR METAL-OK- CLEANED &amp; GAPPED PLUSS, CAD TIMING, INTAKE, EXHAUST, TURBO, FUEL &amp; OIL LINES, MOUNT, BUSHINGS, WIRING, CAD &amp; LUBED ENGINE &amp; PROP CONTROLS, CAD COMPRESSION AS FOLLOWS: #1-76 #2-70 #3-74 #4-74 ALL OVER 80 PSI HOT, CLEANED INJECTORS, CWAD 03-14-03 PER AD, CWAD 11-26-09 ON THE INJECTOR LINES, AD 12-03-06 AIR CONFIGURATION. CAD A/D'S TO DATE, UP DATED LIST &amp; INSERTED IN THE AIRCRAFT RECORDS JUST MAN-UK.</p> <p>I Certify this <u>ENGINE</u> to be in an airworthy condition. I/A/W an <u>ANNUAL</u> inspection. Michael D. Vieke <i>[Signature]</i> A &amp; P 308509011 I.A.</p>
LEFT TACH	3173.6			
TTE	4066.73			
S.M.O.H	1127.80			
4-12-2013				<p>OIL &amp; FILTER CHANGED BY OWNER, NEXT CITINGE IN 30 HOURS. CLEANED &amp; GAPPED PLUSS, CAD TIMING, INTAKE, EXHAUST, FUEL SYSTEM &amp; INJECTORS, CAD TURBO, CAD &amp; LUBED ENGINE &amp; PROP CONTROLS &amp; TURBO WASTE GATE, CAD COMPRESSION AS FOLLOWS: #1-77 #2-70 #3-73 #4-74 ALL OVER 80 PSI HOT. CAD MOUNT &amp; BUSHINGS, REPLACED THE ENGINE AIR FILTER ELEMENT WITH A BA-27, CAD A/D'S THRU 2013-07, CWAD 11-26-04 PER AD - INJECTOR LINES. UP DATED LIST &amp; INSERTED IN THE AIRCRAFT RECORDS</p> <p>I Certify this <u>ENGINE</u> to be in an airworthy condition. I/A/W an <u>ANNUAL</u> inspection. Michael D. Vieke <i>[Signature]</i> A &amp; P 308509011 I.A.</p>
LEFT TACH	3300.18			
TTE	4193.31			
S.M.O.H	1254.38			
				<p>SUB-TOTALS this page</p> <p>TOTALS—Carry forward to next page</p>

DATE	TOTAL TIME IN SERVICE	TOTAL	TACH OR	ING WORK
<p><b>N8971Y Lt. Engine</b>  <b>Date: 5/13/13 Hobbs: 3131.3</b></p> <ul style="list-style-type: none"> <li>• Installed 8 new Champion REB37E Sparkplugs.</li> <li>• Ran engine, operational check satisfactory.</li> </ul> <p style="text-align: right;"><i>Peter White</i>  <b>Peter White 3192553 IA</b></p>				
<p><b>N8791Y</b>  <b>Date: 7/8/13 Lt Eng Tach: 3337.41 Hobbs: 3158.3</b></p> <ul style="list-style-type: none"> <li>• Drained oil, changed filter, and serviced with 8qts Phillips 20w50.</li> <li>• Ran engine, leak check ok.</li> </ul> <p style="text-align: right;"><i>Peter White</i>  <b>Peter White 3192553 IA</b></p>				
6-20-14	4286.20 <del>4286.80</del>	1347.27 <del>1347.91</del>	3393.07	<p>Diff comp Test results: <math>1\frac{1}{2}/80</math> <math>2\frac{7}{8}/80</math> <math>3\frac{7}{8}/80</math> <math>4\frac{7}{8}/80</math> R+R #3</p> <p>cyl for low compression (Heller Aero Repairs)</p> <p>Changed oil + filter, open + insp. filter, clean + check fuel + oil screens, cleaned + checked turbo filter, added 7qts Aeroshell Mineral 100. c/w slick 500hr insp - both mag. Clean + gap plugs</p> <p>Cleaned injector nozzles. Replaced both waste gate clamps + gskts. Replaced inlet ducts as required</p> <p>Replaced air filter element. Checked exht + turbo system. c/w AD 2003-14-03 Rotary fuel pump insp (next due <sup>Tach</sup> 3443.07) c/w AD 2011-26-04 lng line insp (next due <sup>Tach</sup> 3543.07) checked + lubed controls</p>
<p>I certify that this (<u>Engine</u>) has been inspected in accordance with a(n) <u>annual</u> inspection and was found to be in airworthy condition.</p>				
<p><u>6-20-14</u> <u>Joseph P Flury</u>  Date Joseph P Flury  IA, NP3619207</p>				

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
9-7-16	4381.77	1442.86	3488.64	Diff. comp. test results: 1 <sup>77</sup> / <sub>80</sub> 2 <sup>78</sup> / <sub>80</sub> 3 <sup>78</sup> / <sub>80</sub> 4 <sup>78</sup> / <sub>80</sub> changed oil & filter, open & insp. filter, cleaned & check fuel & oil screens, added 7 qts Phillips 20/50 XC. G/W AD 2015-19-07 by line insp (next due 9-17 or <sup>Tach</sup> 3588.64) checked mag timing, cleaned & gapped plugs. cleaned inj nozzles. G/W AD 2003-14-03 fuel pump visual insp (next due <sup>Tach</sup> 3538.64) checked exint & Turbo system. checked eng mount. checked & lubed controls
				I certify that this ( <u>Engine</u> ) has been inspected in accordance with a(n) <u>annual</u> inspection and was found to be in airworthy condition.
				9-7-16 <u>Joseph P. Flury</u> Date Joseph P. Flury IA, AP3519207
10-13-17	4423.79	1484.88	3530.66	Removed engine for ovhl due to metal contamination. <u>Joseph P. Flury</u> <sup>ARP</sup> 3519207

Tach 3530.66  
T.T. 4423.79

Heller Aero  
484-354-7322

2/9/2018 Engine IO-320-C1A S/N L-4014-55A TSO 0 This Engine TDI Completed. Crankcase Rework and cert. done by Divco, inc Ref.# 120660. Crankshaft Rework and cert. Done by AEA Ref. # 187230. Camshaft and tappet bodies done by AEA Ref #'s 187233,180317. Connecting Rods Rework and Cert. Done by AEA Ref. # 187231. All remaining Steel parts and gears NDT and cert. By AEA under the following Ref. #'s 187232,187234,218235 and 188201. Assembled this engine using The following parts, (2) SL13884AM03 FWD main bearing, (4) SL 11020M03 main bearings. (8) SL 61662A Rod bearings. (8) SL78027 Rod bolts and LW12186 rod bolt nuts. Installed (4) New 05K21242 Cylinder kits, Se 8130-3. Installed new SL76121 Tach shaft assy. Installed new oil pump housing P/N SL78528. C/WAD 04-10-14 C/S gear and bolt, lock tab bolt P/N STD-2213. C/WAD 15-19-07 F/I lines IAW S/B 342 G. TBV by engine installer! AD 03-14-03 Fuel pump Due 50 hrs from install date, See AD listing. See HASI inv. 1192 For complete parts listing. This Engine must be pre-oiled and serviced with min. oil! This Overhaul completed this date IAW all AD and S/B, MFGS MM

Joseph P. Flury AP3493139IA

— end —


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LH eng

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTALS brought forward from previous page				
5-10-2018	4423.79	0000	3530.66	Reinstalled this engine after Heller Aero ohl using new mounts + flex hoses. Serviced with Phillips 20/50 mineral and ground run per Lyco S.I. 1427C. Eng baffles + seals replaced or repaired as req'd. Turbo ohl'd by Main Turbo. Oil cooler ohl'd by Pacific. controls checked + Ripped. Prop + gov flushed by sensenich. All 8130' in separate envelope, AD list attached to log. Alternator, starter + Vac pump reinstalled with times carried fwd. cleaned Turbo oil filter
				I certify that this <u>Engine</u> has been inspected in accordance with a(n) <u>annual</u> inspection and was found to be in airworthy condition.
				<div style="display: flex; justify-content: space-between;"> <div> <p>5-10-2018 Date</p> </div> <div> <p><i>Joseph P. Flury</i> Joseph P. Flury IA, AP3519207</p> </div> </div>

2-5-19

ENGINE MODEL IO-320-C1A  
ENGINE S/N (L)  
REG NO N8971Y  
WORK ORDER VAA10315-01-2019



**Van Allen Airmotive**  
Queen City Airport  
1730 Vultee Street  
Allentown PA 18103  
Phone: 484-224-0105

DATE 2/5/2019  
A/C TSN  
ENG TT (L) 3553.8  
HOBBS 3373.1

**Left Engine Entries**

- Oil and filter change in (L) engine... Completed oil change on (L) engine. Cut open old oil filter to check for metal deposits. No metal was found. Replaced the filter and serviced the engine with 7 Qts. of Phillips 20W50 XC. Run up shows no leaks.

Part 43 9(a) MAINTENANCE RECORD - The aircraft N8971Y, airframe, engine, propeller and/or components specifically listed above and only those items listed above was/were repaired, replaced and/or inspected in accordance with the current FAA Regulations and unless otherwise noted those specific items listed were found to be Airworthy for return to service. Pertinent details of the repair are on file at this facility under Work Order No VAA10315-01-2019, dated 2/5/2019 and all work was performed IAW current maintenance manuals and instructions.

DATE 2/5/2019

SIGNED: *Christopher Williams*  
Christopher J Williams, License AP3571863IA

Work Order: VAA10315-01-2019  
Printed by EBis 3 (datcomedia.com)

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LT Eng

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
8-1-2019	3576.63	45.97	3576.63	Diff comp test results: 1 <sup>75</sup> / <sub>80</sub> 2 <sup>76</sup> / <sub>80</sub> 3 <sup>78</sup> / <sub>80</sub> 4 <sup>76</sup> / <sub>80</sub> Changed oil + filter, open + insp filter, clean + check fuel + oil screens, added 7qts Phillips 20/50 XC. C/W AD 2015-19-07 Inj line insp (next due <sup>Tach</sup> 3676.63 or 8-2020) C/W AD 2003-14-03 Fuel pump leaks (next due <sup>Tach</sup> 3626.63) cleaned + gapped plugs, checked mag timing. Checked exit + turbo system. Checked + lubed controls. Checked engine mount. AD's checked thru 2019-15
				I certify that this (Engine) has been inspected in accordance with a(n) <u>annual</u> inspection and was found to be in airworthy condition.
				8-1-2019 <u>Joseph P. Flury</u> Date Joseph P. Flury IA, AP3519207

Date: 03/01/2021 Hours: 3649 TTAF L+

Tail#: N8971Y 3607 L tach 75 SOH

Make: Lycoming Model: IO-320-C1A S/N: L-4014-55A

Compression test results: #1) 76/80 #2) 77/80 #3) 78/80 #4) 77/80 Changed oil in engine and replaced filter, inspected old filter, no cont. noted. Serviced with Phillips 20w50 oil. Checked mag timing, replaced the Left mag base gasket, re-timed. Serviced spark plugs. Replaced the entire exhaust system with AWI overhauled exhaust components. C/W 03-14-03 rotary fuel pump, no leaks present. Next due 3749 Tach. C/W 15-19-07 fuel injector lines per SB 342G inspection. Next due 3749 Tach. I certify this engine has been inspected IAW an Annual inspection and is airworthy.

Name: Kent Heller  
Co: Heller Aero Service Inc

Cert: AP3493139 IA  
Sign: K Heller


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Hours: \_\_\_\_\_  
 Misc: \_\_\_\_\_

AD #	Category	Subject	Amend #	Eff Date	Rec	Remarks
Date/Hours	Compliance	Next Due	Name	Signature	Cert #	
66-20-04	Engine	Oil Filter Adapter Gasket	39-277	08/27/66		N/A
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
67-22-06	Engine	Bendix RS Delrin Stemmed Fuel Diaphragm	39-448	08/09/67		N/A See O/H info 8130-3
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
71-05-02	Engine	Crankcase Main Bearings	39-1589		Yes*	N/A
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
71-11-02	Engine	Intake and Exhaust Hydraulic Tappet Plunger As	39-1403	03/14/72		N/A O/H Date
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
73-23-01	Engine	Piston Pin Cracks From Grinding	39-2804	01/13/77		N/A P/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
75-08-09	Engine	Oil Pump Drive Shaft and Impeller	39-3013	08/18/77		N/A New style pump gears and housing
2/9/18	0 SMOH		Kent Heller			AP3493139 IA
75-09-15	Engine	Bendix Fuel Injector Flow Divider Cover Gasket	39-2187	04/30/75		N/A Due S/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
78-23-10	Engine	Bendix RSA Series Fuel Injector Bellows Seal	39-3333	11/07/78		N/A See O/H 8130-3
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
79-04-05	Engine	Bendix RSA Series Fuel Injectors Diaphragm	39-3570	09/26/79		N/A S/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
81-18-04 R2	Engine	Superseded By 96-09-10				SS
			Kent Heller			AP3493139 IA
90-04-06 R1	Engine	Propeller Governor External Oil Line	39-6915	05/28/91		PCW Steel fitting present, TBV by installer
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
91-14-22	Engine	Superseded By 04-10-14				SS
			Kent Heller			AP3493139 IA
92-12-05	Engine	Piston Pin Failure	39-8265	07/10/92		N/A P/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
92-20-07	Appliance	Superseded By 93-05-21				SS
			Kent Heller			AP3493139 IA
93-02-05	Engine	Superseded By 02-26-01				SS
			Kent Heller			AP3493139 IA
93-05-21	Appliance	Superseded By 93-11-11				SS
			Kent Heller			AP3493139 IA
93-05-22	Engine	Superseded By 02-26-01				SS
			Kent Heller			AP3493139 IA
93-11-11	Appliance	Diaphragm Fuel Pumps Overhauled (by AAI)	39-8584	06/21/93		N/A P/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
94-14-13	Engine	Superseded By 95-26-02				SS
			Kent Heller			AP3493139 IA
95-07-01	Engine	Superior Air Parts Connecting Rod Bolts	39-9183	04/12/95		N/A P/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
95-26-02	Engine	Detonation Due To Low Octane	39-9460	01/24/96		N/A Due Eng. S/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
96-09-10	Engine	Oil Pump Impeller Failure	39-9586	07/15/96		PCW
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
96-23-03	Engine	High Pressure Fuel Pumps	39-9826	12/17/96		N/A P/n
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
97-01-03	Engine	Superseded By 97-15-11				SS
			Kent Heller			AP3493139 IA
97-15-11	Engine	Piston Pin Failure	39-10085	08/12/97		N/A P/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
98-02-08	Engine	Crankshaft Corrosion Pits	39-10291	03/30/98	Yes	N/A Model
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
98-17-11	Engine	Crankshafts Installed by Nelson Balancing Servi	39-10713	10/19/98		N/A S/N
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA
98-18-12	Engine	Superseded By 03-14-03				SS
			Kent Heller			AP3493139 IA
02-26-01	Engine	Superseded By 08-14-07				SS
			Kent Heller			AP3493139 IA
03-14-03	Engine	Rotary Fuel Pump Leaks	39-13222	08/14/03	Yes*	Torque check Each 50 Hrs
2/9/2018	0 SMOH		Kent Heller			AP3493139 IA

02/09/2018

Make Model

Textron IO-320-C S/N L-4014-55A

Tail #

Serial #

Airworthiness Directive Compliance Report

Hours:

Misc:

AD #	Category	Subject	Amend #	Eff Date	Rec	Remarks
Date/Hours Compliance	Next Due	Name	Signature	Cert #		
04-10-14	Engine	Crankshaft Gear Retaining Bolt	39-13644	06/25/04		C/W this date new STD2213 bolt and lock ,and serviceable gear.
2/9/2018 0 SMOH		See AD	Kent Heller	AP3493139 IA		
08-08-14	Appliance	Superseded By 09-02-03				SS
		Kent Heller		AP3493139 IA		
08-14-07	Engine	Superseded By 11-26-04				SS
		Kent Heller		AP3493139 IA		
09-02-03	Appliance	RSA-5 or RSA-10 Series - Fuel Injection Servo F	39-15793	02/09/09	Yes*	N/A S/N
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
11-15-10	Engine	Superseded By 12-03-06				SS
		Kent Heller		AP3493139 IA		
11-26-04	Engine	Superseded By 15-19-07				SS
		Kent Heller		AP3493139 IA		
12-03-06	Engine	AVStar Fuel Servo Diaphragm	39-16947	02/24/12		N/A See O/H info 8130-3
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
12-19-01	Engine	Crankshaft Replacement	39-17196	10/24/12		N/A S/N
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
15-19-07	Engine	Fuel Injector Fuel Lines and Clamps	39-18269	11/03/15	Yes	C/W this date IAW 342G, TBV by eng. installer
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
17-16-11	Engine	Connecting Rod Failure	39-18988	08/15/17		N/A Due O/H date ,P/N
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
73-10-02	Appliance	Models RSA-5AD1, RSA-51B1 and RSA-10AD1	39-1634	05/16/73		N/A
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
79-21-08	Appliance	Models RSA-5AB1, -5AD1, -7AA1, -7DA1, -10xx	39-3593	10/24/79		N/A
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
79-26-03	Appliance	Models RSA-5AD1, P/N's 2524145-8 and 25241	39-3636	12/26/79		N/A S/N O/H date
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
80-06-05	Appliance	Impulse Hardness Test	39-3718	03/28/80		N/A Due model
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
81-16-05	Appliance	4200, 6200 Series - Cracked Coil	39-4173	08/06/81		N/A Due mag Model no.
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
93-11-11	Appliance	Diaphragm Fuel Pumps Overhauled (by AAI)	39-8584	06/21/93		N/A P/N
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
09-02-03	Appliance	RSA-5 or RSA-10 Series - Fuel Injection Servo F	39-15793	02/09/09	Yes*	N/A S/N
2/9/2018 0 SMOH		Kent Heller		AP3493139 IA		
14-05-29	Appliance	(SAP) Cast Cylinder Assemblies	39-17801	04/25/14	Yes	N/A Due installed. 05K21242 Kits
2/9/2018 0 SMOH		N/A	Kent Heller	AP3493139 IA		

— End —

