
ENGINE MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION

172S/10925

N5113J

ENGINE MODEL AND SERIAL IO-360-L2A

L-34702-51E

D5518-3-13

LYCOMING
A Textron Company

652 Oliver Street
Williamsport, PA 17701 U.S.A.

FINAL ENGINE ACCEPTANCE

Eng. Serial No L-34702-51E
Inspector (59)
Date 12/17/08

Form 245 (5-02)

CSNA-1116
FORM X-211
Rev. 9-9-03

I348179

Date 1-29-09 S/N _____
P/N 3906077-4-1
Shop A33 Final Insp. _____



INSTRUCTIONS

Completed in accordance with FAA Federal Aviation Regulations and applicable government regulations.

NOTE: Record Service Bulletins and Airworthiness Directives in the back of this record as well as the Airframe Maintenance Record.

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MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
<u>2/28/09</u>				
<u>02/10</u>	<u>0</u>	<u>0</u>		

172810925

NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL IO-360-L2A SERIAL NO. L-34702-51E

DATE 12/17/08 Charles Hess
(AUTHORIZED REPRESENTATIVE)

LYCOMING
A Textron Company

LYCOMING ENGINES
652 Oliver Street
Williamsport, PA 17701 U.S.A.

Form No. 777-B (Rev. 3/03)

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
2009 03/18	4	0	Engine model IO-360-L2A, S/N <u>L-34702-51E</u> has been installed on aircraft # <u>17310925</u> with TTAF <u>4.0</u> . TTSN was <u>4.0</u> . This engine serviced with Phillips Aviation oil type M 20W50 weight.	<i>[Signature]</i> ODA-100129-CE
7/15/09	24.5		① Changed oil and filter. Checked filter for contamination. Serviced engine with 8 QTS Aeroshell 100w. Ran. Engine leak checked good. ② Installed oil drain valve. ③ Complied with AD 2001-06-17. No adjustments necessary.	AP2774600 <i>[Signature]</i>

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
9-15-2009	45	4	Replaced Starter w/ New SKg-Tec model 149-NL SN FN-280916 SIGNED <u>E. W. [Signature]</u> Work Order # <u>75327</u>	BLUE SKIES OVER DUBUQUE, INC. FAA REPAIR STATION #YQYR343B
9-17-2009	46	3	Replaced Starter w/ New SKg-Tec model 149 NL SN FN-280908 SIGNED <u>E. W. [Signature]</u> Work Order # <u>75334</u>	BLUE SKIES OVER DUBUQUE, INC. FAA REPAIR STATION #YQYR343B
9-18-09	49	6	Changed oil and filter. Checked filter for contamination. Serviced engine with 8 QTS Aeroshell 100w. Ran engine - leak check good	<i>[Signature]</i> AP/3015266

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
2009 03/18	4	0	Engine model IO-360-L2A, S/N <u>L-34702-51E</u> has been installed on aircraft # <u>173810925</u> with TTAF <u>4.0</u> . TTSN was <u>4.0</u> . This engine serviced with Phillips Aviation oil type M 20W50 weight.	<i>[Signature]</i> ODA-100129-CE
7/15/09	24.5		① Changed oil and filter. Checked filter for contamination. Serviced engine with 8 QTS Aeroshell 100w. Ran oil. Ran. Engine leak checked good. ② Installed oil Drain Valve. ③ Complied with AD 2001-06-17. No Adjustments Necessary.	AP2774600 <i>[Signature]</i>

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
9-15-2009	45.4		Replaced Starter w/ New Sky-Tec model 149-NL SN FN-280916	
9-17-2009	46.3		Replaced Starter w/ New SN FN-280908	
9-18-09	49.6		Changed oil and filter. Checked filter for contamination. Serviced engine with 8 QTS Aeroshell 100w. Ran engine - leak check good	<i>[Signature]</i> AP/3015266

FAA-PMA

This tag certifies that Sky-Tec starter Model 149-NL SN FN-280908 was produced by Sky-Tec under the authority of FAA PMA No. PQ0852SW Supplement No. 7 per CFR14 Part 21 in accordance with Sky-Tec's FAA-Approved Fabrication Inspection System (CFR14 Part 21 §21.303) and conforms to the relevant FAA-approved drawings. This part has been determined to be airworthy. For installation eligibility see www.skytecair.com/eligibility.htm.

Starter Installed on **N** 5113J by Blue Skies Over Dky.
(Aircraft) (Mechanic)
9-17-2009 CRS# PQPR 343B
(Date of Installation) (A&P No.)

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER																								
	HOURS	10THS																										
DATE <u>10-14-09</u> TACH <u>100.0</u> TT <u>100.0</u> I CERTIFY THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 HOUR</u> INSPECTION AND WAS DETERMINED TO BE IN AIR-WORTHY CONDITION. SEE AD LIST IN <u>FOLDER</u> FOR COMPLIANCE. WORK ORDER # <u>75390</u>			<ol style="list-style-type: none"> ① INSPECTED ENGINE PER FAR PART 43 APPENDIX D CHECKLIST ② CHANGED OIL + FILTER 8 QTS. SHELL 50WT OIL INSPECTED OIL FILTER + SCREEN FOR METAL <u>Good</u> ③ ADJUSTED LEFT MAGNETO TIMING TO ENGINE ④ REPLACED O-RINGS ON FUEL SERVO INLET SCREEN ⑤ SECURED BAFFLING ⑥ REPLACED 1EA. SPARK PLUG ⑦ %W AD 08-14-07 Insp. FUEL INJECTION LINES SB 342 																									
SIGNED <u>Paul M. Kaune</u> BLUE SKIES OVER DUBUQUE, INC. FAA REPAIR STATION #YQYR343B																												
<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="6">ENGINE COMPRESSION</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>80</td> <td>79</td> <td>79</td> <td>79</td> <td></td> <td></td> </tr> <tr> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td></td> <td></td> </tr> </tbody> </table>					ENGINE COMPRESSION						1	2	3	4	5	6	80	79	79	79			80	80	80	80		
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1	2	3	4	5	6																							
80	79	79	79																									
80	80	80	80																									
<u>11-9-09</u>	<u>133</u>	<u>5</u>	Made seasonal adjustment to engine Idle RPM & mixture setting	<u>James Jenkins</u> BP3015266																								

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER																								
	HOURS	10THS																										
<u>12-11-09</u>	<u>150</u>	<u>0</u>	Changed oil and filter. Checked filter for conform. inspec serviced the engine with 8 qts reashed 65 W. Ron Engine leak checked good.	<u>AP2774600</u> <u>John in Kiel</u>																								
DATE <u>3-4-10</u> TACH <u>199.9</u> TT <u>199.9</u> I CERTIFY THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIR-WORTHY CONDITION. SEE AD LIST IN <u>FOLDER</u> FOR COMPLIANCE. WORK ORDER # <u>75684</u>			<ol style="list-style-type: none"> ① INSPECTED ENGINE PER FAR PART 43 APPENDIX D CHECKLIST ② CHANGED OIL + FILTER 8 QTS SHELL 30WT OIL ③ REPLACED 1EA. SPARK PLUG ④ SECURED OIL RETURN LINE HOSE CLAMPS ⑤ REPLACED #3 INTAKE TUBE GASKET ⑥ REPLACED O-RINGS ON FUEL SERVO INLET SCREEN ⑦ %W AD 2008-14-07 INSPECTED FUEL INJECTION LINES SB 342E 																									
SIGNED <u>Paul M. Kaune</u> BLUE SKIES OVER DUBUQUE, INC. FAA REPAIR STATION #YQYR343B																												
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79	78	77	79																									
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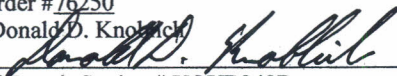
MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER																								
	HOURS	10THS																										
4/20/2016	249.8	9 th	Changed oil and filter. checked filter for contamination. serviced engine with 8 QTS Aeroshell 100W. Ran engine leak check good.	AP2774600 Cpl m Y																								
DATE 6-1-10	TACH 299.9	TT 299.9	<ol style="list-style-type: none"> ① INSPECTED ENGINE PER FAR PART 43 APPENDIX D CHECKLIST ② CHANGED OIL + FILTER SHELL 50WT. OIL ③ REPLACED O-RINGS ON FUEL SERVO INLET SCREEN ④ RETIMED BOTH MAGNETOS TO ENGINE ⑤ %WAD 2008-14-07 Insp. FUEL INJECTION LINES SB342E 																									
<p>I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIR-WORTHY CONDITION. SEE AD LIST IN FOLDER FOR COMPLIANCE.</p> <p>WORK ORDER # 75 910</p> <p>SIGNED <u>P. M. Kallme</u> BLUE SKIES OVER DUBUQUE, INC. : FAA REPAIR STATION #YQYR343B</p>																												
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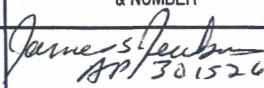
MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
7-7-2010	349.9	9	Changed oil and filter. Checked filter for contamination. serviced engine with 8 QTS Aeroshell 100W. Ran engine leak check good.	James S. Jenkins AP3015266
/				

MAINTENANCE RECORD

DATE	TOTAL TIME		AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER												
	Date: 10/19/2010 Tach/Hobbs: 498.9 Total Time: 498.9 TSMOH: 498.9	 <p>Blue Skies over Dubuque Inc. Airplane Maintenance 10800 Airport Road Dubuque, Iowa 52003 Repair Station #YQYR343B 563-582-1293</p>													
	Cylinder Compressions <table border="1" style="margin-top: 5px; width: 100%; border-collapse: collapse;"> <tr> <td>#1</td><td>#2</td><td>#3</td><td>#4</td><td>#5</td><td>#6</td> </tr> <tr> <td>78</td><td>80</td><td>78</td><td>80</td><td>↕</td><td>↕</td> </tr> </table>	#1	#2	#3	#4	#5	#6	78	80	78	80	↕	↕		
#1	#2	#3	#4	#5	#6										
78	80	78	80	↕	↕										
	1. Inspected engine per FAR Part 43 Appendix D checklist. 2. Changed oil and filter. Serviced with 8qts. Aeroshell 50W oil. Inspected filter and screen for metal. 3. Cleaned, gapped, and tested spark plugs. 4. Secured clamps on oil return lines. 5. Replaced #2 and #4 intake gaskets. 6. Secured oil fill tube. 7. Secured nuts on vacuum pump. 8. Replaced orings on fuel servo inlet screen. I certify this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition. See AD List in <u>folder</u> for compliance. Work Order #76250 Name: Donald D. Knobloch Signed:  Certified Repair Station # YQYR343B														

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
11-29-2010	547	7	Changed oil and filter. Checked filter for contamination. Serviced engine with 8 QTS Aeroshell 65W. Run engine test check good.	 AP/3015266

Date: 7/2/2011
 Tach/Hobbs: 598.6
 Total Time: 598.6
 TSMOH: 598.6



Blue Skies over Dubuque Inc.
Airplane Maintenance
 10800 Airport Road
 Dubuque, Iowa 52003
 Repair Station #YQYR343B
 563-582-1293

Cylinder Compressions

#1	#2	#3	#4	#5	#6
78/80	78/80	76/80	78/80	↕	↕

1. Inspected engine per FAR Part 43 appendix D checklist.
2. Changed oil and filter. Inspected filter and screen for metal. Serviced with Shell 30wt. oil.
3. Secured tanis heat plug on oil fill tube.
4. Replaced o-rings on fuel servo inlet screen.
5. Washed engine and cowling with solvent.
6. C/W AD2008-14-07 inspected fuel injection lines, SB342.

I certify this engine has been inspected in accordance with a Annual Inspection and was determined to be in airworthy condition. See AD List in folder for compliance.

Work Order #76472

Name: Paul M. Kaune

Signed: Paul M. Kaune
 Certified Repair Station # YQYR343B

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
3-16-2011	649.8		① Changed oil and filter, checked filter for contamination, serviced engine with 8 qts Aeroshell 65w. Ran engine - leak check good. ② Cleaned and tested spark plugs	Tiffany Eveme AP3527990

Date: 4/11/2011
 Tach/Hobbs: 698.1
 Total Time: 698.1
 TSMOH: 698.1



Blue Skies over Dubuque Inc.
Airplane Maintenance
 10800 Airport Road
 Dubuque, Iowa 52003
 Repair Station #YQYR343B
 563-582-1293

Cylinder Compressions

#1	#2	#3	#4	#5	#6
79/80	78/80	79/80	79/80	79/80	79/80

1. Inspected engine per FAR Part 43 appendix D checklist.
2. Changed oil & filter, inspected filter & screen for metal. Serviced with Shell 50wt. oil.
3. Removed both magnetos, reset E-gaps and internal timing. Installed with new gaskets. Timed to engine.
4. Replaced #3 intake tube gasket. 5. Tightened tension on alternator belt. 6. Secured loose baffling & wiring.
7. C/W AD 2008-14-07 inspected fuel injection lines & clamps. 8. Replaced o-rings on fuel servo inlet screen.
9. Washed engine with solvent.

I certify this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition. See AD List in folder for compliance.

Work Order #76611

Name: Paul M. Kaune

Signed: Paul M. Kaune

Certified Repair Station # YQYR343B

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
5-10-2011	747.8		① Changed oil and filter. Checked filter for contamination. Serviced engine with 84ts Aeroshell 100w. Ran engine - leak check good. ② Cleaned and tested all spark plugs.	Tiffany Brame APC3527990
6-1-2011	772.9		Made seasonal adjustment to idle/mixture settings.	Tiffany Brame AP3527990

Date: 7-15-2011
 Tach/Hobbs: 797.9
 Engine Total time: 797.9
 TSMOH: 797.9

N5113J; SN: 17210925

Cylinder Compression

#1	#2	#3	#4	#5	#6
78/80	76/80	80/80	78/80	N/A	N/A

1. Inspected engine per FAR 43 appendix D checklist.
2. Changed oil and filter. Checked filter for contamination. Serviced engine with 8 qts. Aeroshell 100W .
3. Cleaned, gapped and tested all sparkplugs.
4. Inspected fuel servo inlet filter.
5. C/W AD 2008-14-07 fuel injector lines and clamps (per Lycoming SB 342).

I certify this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition. See AD list in folder for compliance.

Name: James S. Jenkins, AP 3015266

Signed: *James S. Jenkins*

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

9-8-2011	846.8	<ol style="list-style-type: none"> 1. Changed oil and filter. Checked filter for contamination. Serviced engine with 8 qts Aeroshell 100w. Ran engine - leak check good. 2. Cleaned, gapped and tested all spark plugs. 	<i>Tiffany Bane</i> AP3527990
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Date: 9/26/2011
 Tach/Hobbs: 897.5
 Total Time: 897.5
 TSMOH: 897.5



Blue Skies over Dubuque Inc.
Airplane Maintenance
 10800 Airport Road
 Dubuque, Iowa 52003
 Repair Station #YQYR343B
 563-582-1293

Cylinder Compressions

#1	#2	#3	#4	#5	#6
79/80	78/80	78/80	79/80	↕	↕

1. Inspected engine per FAR Part 43 appendix D checklist.
2. Changed oil & filter, inspected filter & screen for metal, Serviced engine with Shell 50wt. oil.
3. Replaced all spark plugs. 4. Replaced o-rings on fuel servo inlet screen. 5. Washed engine with solvent.
6. C/W AD2008-14-07 inspected fuel injection lines & clamps.

I certify this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition. See AD List in folder for compliance.

Work Order #76994

Name: Paul M. Kaune

Signed: *Paul M. Kaune*

Certified Repair Station # YQYR343B

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER

0-22-11	946.6	<ol style="list-style-type: none"> 1. Changed oil and filter. Checked filter for contamination. Serviced engine with 8 qts Aeroshell 100w. Ran engine - leak check good. 	<i>Tiffany Bane</i> AP3527990
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Date: 4/25/2012
 Tach/Hobbs: 1195.4
 Total Time: 1195.4
 TSMOH: 1195.4



Blue Skies over Dubuque Inc.
Airplane Maintenance
 10800 Airport Road
 Dubuque, Iowa 52003
 Repair Station #YQYR343B
 563-582-1293

Cylinder Compressions

#1	#2	#3	#4	#5	#6
77/80	74/80	76/80	78/80	↕	↕

1. Inspected engine per FAR Part 43 appendix D checklist.
2. Changed oil & filter, inspected filter & screen for metal, serviced engine with Shell 50wt. oil.
3. Replaced o-rings on fuel servo inlet screen. 4. Made seasonal adjustment to idle mixture setting.
5. C/W AD2011-26-04 inspected fuel injection lines & clamps, SB342.

I certify this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition. See AD List in folder for compliance.

Work Order #77465

Name: Paul M. Kaune

Signed: Paul M. Kaune
 Certified Repair Station # YQYR343B

AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
7-18-12	1245.3	3	@changed oil and filter. checked filter for contamination, serviced engine with 8qts Aeroshell 100w. Ran engine- leak check good. @cleaned and tested all spark plugs.	<i>Jeffery Deane</i> AP3527940

Date: 9/7/2012
 Tach/Hobbs: 1295.0
 Total Time: 1295.0
 TSMOH: 1295.0



Blue Skies over Dubuque Inc.
Airplane Maintenance

10800 Airport Road
 Dubuque, Iowa 52003
 Repair Station #YQYR343B
 563-582-1293

AUTHORIZED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER

Cylinder Compressions

#1	#2	#3	#4	#5	#6
78/80	77/80	77/80	78/80	✓	✓

1. Inspected engine per FAR 43 appendix D checklist. 2. Changed oil and filter. Inspected filter and screen for metal. Serviced with 8 qts 50 wt Shell oil. 3. Replaced #4 valve cover gasket. 4. Replaced fuel servo inlet screen o-rings. 5. C/W AD 2011-26-04 (fuel injection lines and clamps) Inspected per SB 342.

I certify this engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition. See AD List in folder for compliance.

Work Order #77728
 Name: Eric W. Seier

Signed: *E.W. Seier*
 Certified Repair Station # YQYR343B

DATE	TI IN HOU	DESCRIPTION	SIGNATURE
10-5-12	1344.4	Changed oil and filter. Checked filter for contamination. Serviced engine with 8qts Aeroshell 100w. Ran engine - leak check good.	<i>Tiffany Bane</i> AP3527990

Date: 11-07-2012
 Tach/Hobbs: 1394.7
 Engine Total time: 1394.7
 TSMOH: 1394.7
 N5113J

Cylinder Compression

#1	#2	#3	#4	#5	#6
78/80	74/80	77/80	75/80	N/A	N/A

1. Inspected engine per FAR 43 appendix D checklist.
2. Changed oil and filter. Checked filter for contamination. Serviced engine with 8 qts. Aeroshell 65W.
3. Cleaned, gapped and tested all sparkplugs.
4. C/W AD 2011-26-04 fuel injector lines and clamps (per Lycoming SB 342).
5. Secured loose hardware #4 valve cover.

I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition. See AD list in folder for compliance.

Name: James S. Jenkins, IA 3015266

Signed: *James S. Jenkins*

DATE	TI IN HOU	DESCRIPTION	SIGNATURE
12-4-12	1444.1	Changed oil and filter. Checked filter for contamination. Serviced engine with 8qts Aeroshell 65w. Ran engine - leak check good. Cleaned, gapped, and tested all spark plugs.	<i>Tiffany Bane</i> AP3527990

AUTHORIZED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10THS		
2013 -8-13	1481.	2	REMOVED THIS ENGINE FOR A PROP STRIKE INSPECTION	J&N AIR INC. JAFR110F JIM ORTERY <i>Jim Ortery</i>

G & N AIRCRAFT, INC. / Limited Piston Engine Warranty

Effective 1/1/2006, G & N Aircraft, Inc., (hereinafter "G & N") makes the following warranty to its customer, subject to the limitations, conditions and exclusions set forth below.

WARRANTY COVERAGE - For a period of twelve (12) months after date of delivery to customer, G & N Aircraft, Inc. shall repair or replace, at its option, any aircraft engine, accessory, or part which is found to be defective, to G & N Aircraft, Inc.'s satisfaction, within said warranty period.

For engine warranty after twelve (12) months from the date of delivery to customer and prior to the expiration of the manufacturer's recommended time between overhaul ("TBO"), the cost of repair or replacement (including the cost of parts and labor), at G & N Aircraft's option, shall be prorated in the following manner. The customer shall pay a prorated amount based upon the engine's TBO and the engine hours (which shall be deemed the greater of logbook hours, recorded tachometer hours, or a minimum of forty (40) hour per month from date of delivery). For instance, an engine with a TBO of 2000 hours and with 200 hours of usage in a 16 month period would have a prorated warranty coverage of 68% applied to cost of a replacement engine or to the cost of parts and labor for repair of this subject engine, either of which shall be at the option of G & N Aircraft, Inc. Reasonable labor costs associated with the repair of a warranted engine shall be prorated in the same manner on the basis of a flat rate schedule established by G & N Aircraft, Inc.

After the initial twelve (12) months from date of delivery, G & N Aircraft, Inc. will not assume any responsibility for the repair or replacement of engine accessories, including but not limited to the following: magnetos, starter, alternator, ignition harness, turbocharger, carburetor, fuel injection, etc.

Replacement parts supplied for warranted engines still covered by manufacturer's warranty are supplied on an exchange basis prepaid by customer. G & N Aircraft, Inc. will pursue warranty claims with the manufacturer on the owner's behalf. Any allowance by the manufacturer will be credited to the operator's account.

REQUIRED CONDITIONS AND PROCEDURES NECESSARY FOR OBTAINING WARRANTY WORK - The following conditions and procedures must be met before G & N Aircraft, Inc. is liable under the provisions of this written warranty. The foregoing warranty shall be effective only if the engine or component to be serviced is returned to G & N Aircraft, Inc.'s facility at customer's expense, together with a detailed description in writing of the nature of the defect. The customer or his representative should contact G & N Aircraft, Inc. for verification and authorization of warranty prior to return and/or repair. Written authorization

must be obtained from G & N Aircraft, Inc. before repairs covered by warranty can be performed other than by G & N Aircraft, Inc. In no event shall allowable repair costs exceed local published shop rates. This warranty shall apply if and only if the engine has been properly installed and maintained in accordance with current approved standards of the Federal Aviation Administration ("FAA") and current recommendations of the manufacturer as specified in applicable factory manuals and service bulletins. The performance of recommended inspections and maintenance must be documented by appropriate logbook entries which must accompany any engine returned for warranty work. Only defects which are reported to G & N Aircraft, Inc. within the warranty period are covered by this warranty and G & N Aircraft, Inc. must be given written notice, within ten (10) days after discovery.

LIMITATIONS, EXCLUSIONS, AND DISCLAIMERS - G & N Aircraft, Inc. shall not be liable for freight charges, transportation or delivery expenses, costs, or airframe repairs, all of which are excluded under this warranty. G & N Aircraft, Inc. does not warrant parts, materials or services supplied which are covered by manufacturer's warranty. This written warranty shall not apply to any engine which has been subject to misuse, neglect, accident or damage from the elements, or which has been installed repaired or maintained or altered in any manner which, in the judgment of G & N Aircraft, Inc. has had an adverse effect on the engine or its parts. This warranty shall not apply to any engine which has been operated under conditions which exceed the manufacturer's recommendations. Unless prior approval is given in writing by G & N Aircraft, Inc., this warranty shall not apply to any engine which has been repaired or altered, in any manner other than by G & N Aircraft, Inc. or its authorized representative.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION THE WARRANTY OR MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE WHICH WARRANTIES ARE HEREBY EXCLUDED. G & N Aircraft, Inc.'s liability hereunder shall be limited to the repair or replacement of any engine or part found to be defective within the applicable warranty period as set forth above. IN NO EVENT SHALL G & N AIRCRAFT, INC. BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR ECONOMIC LOSS OF ANY NATURE WHETHER ARISING IN CONTRACT OR TORT, INCLUDING STRICT LIABILITY IN TORT OR NEGLIGENCE ON THE PART OF G & N AIRCRAFT, INC. The laws of the State of Indiana will control the interpretation and application of this warranty. All disputes regarding this warranty and any related purchase or repair must be adjudicated in Lake County, Indiana.

Warranty No. 69390
 Engine Serial No. L-34702-51E
 Aircraft Registration No. _____



1701 East Main Street
 Griffith, Indiana 46319
 Tel: (219) 924-7110

AUTHORIZED SIGNATURE,
 CERTIFICATE TYPE
 & NUMBER
