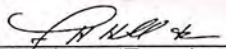


N500NA - 04/30/12

LYCOMING

ENGINE LOG

SSP-1872-1

1. Approving National Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG.				3. FORM TRACKING NUMBER RL-32829-51E	
4. ORGANIZATION NAME AND ADDRESS Lycoming Engines, 652 Oliver St., Williamsport, PA 17701					5. WORK ORDER, CONTRACT, OR INVOICE NUMBER: MS-408741		
6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY*	10. QTY.	11. SERIAL/BATCH NO.	12. STATUS/WORK	
1.1	Aircraft Engine	RENPL-RT10051	N/A	1	RL-32829-51E	SEE BLOCK 13	
13. REMARKS ENGINE MODEL: IO-360-M1A - No Life Limited Parts Rebuilt to original PAH's specifications in accordance with 14CFR par. 43.3(j) AIRWORTHINESS APPROVAL - ENGINE Limited life parts must be accompanied by maintenance history including time/total cycles/time since new.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input type="checkbox"/> 14CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, Part 43. In respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:	20. Authorized Signature: 			21. Approval/Cert No: LYC PC3	
17. Name (Typed or Printed):		18. Date (m-d-y):	22. Name (Typed or Printed): F. H. HILL JR			23. Date (m-d-y): JAN-30-2012	
USER/INSTALLER RESPONSIBILITIES							
It is important to understand that the existence of this Document alone, does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.							
Statements in block 14 and 19 do not constitute installation certification. In all cases maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

LYCOMING

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING 10-360-M1A RL-32825-51E
MAKE MODEL SERIAL

FROM _____ 20 _____ TO _____ 20 _____

DETAILING TIME FROM _____ TO _____
HOURS HOURS

SSP-1872-1

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October 1994

LYCOMING

A Textron Company

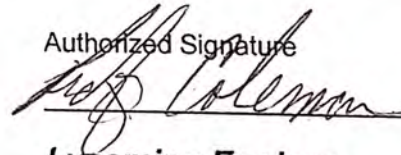
652 Oliver Street
Williamsport, PA. 17701 U.S.A.

Form No. 2481 (3/04-LM)

This engine has been rebuilt in accordance with the applicable Lycoming specifications. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: **IO-360-M1A**
Serial #: **RL-32829-51E**
Total Time: **0.0**
Work Order #: **DB522134**
Date Completed: 1/26/12

Authorized Signature



Lycoming Engines

652 Oliver Street
Williamsport, PA. 17701
Production Certificate # 3

ENGINE DESCRIPTION

Mfgr.	LYCOMING	Place	Williamsport, PA 17701	Date	
Type		Model		Serial No.	
Rated H.P.		Max. H.P.		Weight (Dry)	
Rated R.P.M.		Max. R.P.M.		Oil Pressure	
Bore		Stroke		Displacement	Cu. In.
Compression Ratio		Supercharger Ratio			
Reduction Gear Ratio					
Propeller		Hub Design		Hub Serial No.	
Blade Design		Blade Serial No.		Blade Serial No.	
Max. Hub H.P.		Max. Blade H.P.			
Pitch		Diameter		Length	
Name					
Address					

ENGINE LOG

ENGINE MODEL
IO-360-M1A
ENGINE S/N L-32829-51E
REG. NO. N500NA
WORK ORDER: 22961



KEYSTONE AVIATION

Keystone Aviation LLC

Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801 359-2085

DATE 5/2/2012
A/C TSN 2206
ENG TT 0
TACH 635.2

Engine Entries

ENGINE DECOOLED. ALL INNER AND OUTER CYLINDER BAFFLE ASSY REMOVED. DISCONNECTED ALL OIL, FUEL AND DRAIN LINES. REMOVED EXHAUST SYSTEM. REMOVED ALL ACCESSORIES AND RELATED HARDWARE. ENGINE M/N IO-360-M1A S/N L-31378-51A REMOVED FROM AIRCRAFT N500NA WITH ENGINE TT OF 2206.0. INSTALLED REBUILT ENGINE M/N IO-360-M1A S/N RL-32829-51E WITH 0.0 TOTAL TIME WITH NEW LORD MOUNTS PER DA40 AMM 71-00-00. REINSTALLED ALL INNER AND OUTER CYLINDER BAFFLE ASSY. REINSTALLED ALL ACCESSORIES AND HARDWARE. RECONNECTED ALL FUEL, OIL AND DRAIN LINES. REINSTALLED EXHAUST SYSTEM. ENGINE REBUILT BY TEXTRON LYCOMING CERT # LYC PC3 UNDER THEIR W.O. MS-408741 DATED 01/30/12 AND W.O. DB522134 DATED 01/26/12. SEE 8130-3 DATED 01/30/12. SERVICED ENGINE WITH 8 QTS OF XC 20W/50 MINERAL OIL. PRE-OILED ENGINE. ALL LEAK AND OPERATIONAL CHECKED SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 22961

DATE: 5/2/2012

SIGNED:

Work Order: 22961

jay
Certified Repair Station No. K5SR339N

Printed by EBis 3 (datcomedia.com)

Total to Date

Certificate number MUST be Shown.

ENGINE LOG

Serial No. _____

ENGINE MODEL
IO-360-M1A
ENGINE S/N: L-32829-51E
REG NO: N500NA
WORK ORDER: 23455



KEYSTONE AVIATION

Keystone Aviation LLC

Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801 359-2085

DATE: 5/10/2012
A/C TSN: 2206
ENG TT: 0
TACH: 635.2

Lic
Nu

Engine Entries

ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME. *****AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH: 735.4 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/11. *****AD 2012-03-06 C TO PREVENT ENGINE IN-FLIGHT SHUTDOWN, POWER LOSS AND REDUCED CONTROL OF THE AIRPLANE C/W. FOUND TO BE N/A BY FUEL SERVO DATE OF OVERHAUL 01/26/12 AND P/N S/N. EFFECTIVE DATE 02/24/12. *****AD 2012-03-07 TO PREVENT IN-FLIGHT SHUTDOWN AND LOSS OF POWER DO TO HA-6 CARBURETORS C/W. FOUND TO BE N/A DUE TO ENGINE BEING FUEL INJECTED. EFFECTIVE DATE 03/27/12.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 23455

DATE: 5/10/2012

SIGNED:

jay
Certified Repair Station No. K5SR339N

Work Order: 23455

Printed by EBis 3 (datcomedia.com)

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Li No				
	Hrs	Min							
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>ENGINE MODEL: IO-360-M1A ENGINE S/N: L-32829-51E REG NO: N500NA WORK ORDER: 23930</p> </div> <div style="width: 45%; text-align: center;">  <p>KEYSTONE AVIATION</p> <p>Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801 359-2085</p> </div> </div> <p>Engine Entries</p> <p>ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. NEW OIL FILTER P/N CH48110-1 INSTALLED AND SAFETIED. ENGINE SERVICED WITH 8 QTS OF PHILLIPS X/C 20W50 OIL. RAN AIRCRAFT. LEAK CHECK SATISFACTORY.</p> <p><small>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 23930.</small></p> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>DATE: 8/2/2012</div> <div style="text-align: center;"> <p>SIGNED: </p> <p><small>Jimmy A. Ray Certified Repair Station No. K5SR339N</small></p> </div> <div>Work Order: 23930</div> </div> <p style="text-align: right; margin-top: 5px;"><small>Printed by EBis 3 (datcomedia.com)</small></p>						
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Brought Forward</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">Total to Date</td> <td></td> </tr> </table>	Brought Forward		Total to Date			
Brought Forward									
Total to Date									

**All repair data must be shown by the
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.**

ENGINE LOG

Serial No. _____


Date	Time	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
		 Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801 359-2085	DATE: 8/22/2012 A/C TSN: 2286.9 ENG TT: 2298.5 TSMOH: 82.5 HOBBS: 2902.5	
		Engine Entries ENGINE M/N IO-360-M1A S/N RL-32829-51E REMOVED FROM AIRCRAFT N500NA WITH 82.5 SMOH AND TT OF 2298.5. FOR PROPELLER STRIKE INSPECTION.		
		I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 23973.		
		DATE: 8/22/2012	SIGNED:  <small>Jrjy Certified Repair Station No. K5SR339N</small>	Work Order: 23973 Printed by EBis 3 (datcomedia.com)
		Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.	
		Brought Forward		
		Total to Date		

LYCOMING

A Textron Company

652 Oliver Street
Williamsport, PA 17701


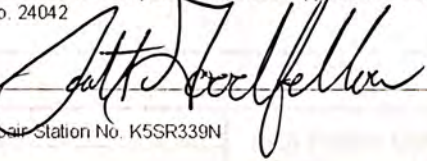
10/16/2012 Engine S/N **RL-32829-51E** was returned to Lycoming with 82.5 TT for inspection/repair due to a prop strike. Engine was disassembled, cleaned and inspected. Necessary parts zygo and magnaflux inspected per SB533A. Cylinders honed. Engine was reassembled replacing the left magneto with S/N 12080441, right magneto with S/N 12071557, 1 connecting rod, all tappets, rings, bearings, hardware necessary for the repair, and all perishable items. Engine was tested in accordance with Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240W, 342F (2002-26-01), 475C (91-14-22), 533A (2004-10-14) and SI 1424, 1487 and 1514. All pertinent data relating to this work is on file at Lycoming under work-order **REP32829**.



C. L. Hess Repairman # 3323268
Repair Station EJ1R11K
END

ENGINE LOG

Serial No. _____

Date	Time	Signature	License Number
ENGINE MODEL: IO-360-M1A ENGINE S/N: L-32829-51E REG. NO: N500NA WORK ORDER: 24042		 KEYSTONE AVIATION Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801 359-2085	DATE: 11/20/2012 A/C TSN: 2298 5 ENG TT: 2298 5 TSMOH: 92.5 TACH: 727.7
Engine Entries			
ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME. *****ENGINE SERVICED WITH 10 QTS OF AEROSHELL 80 MINERAL. *****AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES CW BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 827.7 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.			
I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24042			
DATE: 11/20/2012		SIGNED:  sgoodfellow Certified Repair Station No. K5SR339N	Work Order: 24042
Printed by EBis 3 (datcomedia.com)			
Total to Date		Certificate Number MUST be Shown.	


ENGINE LOG

Serial No. _____

Time	REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	<p>ENGINE MODEL: IO-360-M1A ENGINE S/N: L-32829-51E REG NO: N500NA WORK ORDER: 23973</p> <p> KEYSTONE AVIATION</p> <p>Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801 359-2085</p>	<p>DATE: 11/20/2012 A/C TSN: 2298 5 ENG TT: 2298 5 TSMOH: 82 5 TACH: 727 7</p>	
	<p>Engine Entries</p>		
	<p>ENGINE M/N IO-360-M1A S/N RL-32829-51E REMOVED AND SENT TO TEXTRON LYCOMING CRS # EJ1R11K WHERE UNDER THEIR W.O. REP32829 DATED 10/16/12 IT WAS REPAIRED. REINSTALLED ENGINE M/N IO-360-M1A S/N RL-32829-51E AFTER REPAIR PER DIAMOND AD40 AMM CHAPTER 71-00-00. SERVICED ENGINE WITH 8 QTS OF AEROSHELL 80 MINERAL AND PRE-OILED ENGINE. LEAK AND OPERATIONAL CHECK SATISFACTORY.</p>		
	<p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 23973</p>		
DATE: 11/20/2012	SIGNED: 	Work Order: 23973	
	sgoodfellow Certified Repair Station No. K5SR339N	Printed by EBis 3 (datcomedia.com)	
	Brought Forward Total to Date	Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	

ENGINE LOG

Serial No. _____

Date	Time	REPAIRS ADJUSTMENTS SERVICE REMARKS	Signature	Lic Nu
		 KEYSTONE AVIATION Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801 359-2085	DATE: 12/31/2012 A/C TSN: 2346 4 ENG TT: 2346 4 TSMOH: 140 4 TACH: 775 6	
		Engine Entries ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. NEW OIL FILTER P/N CH48110-1 INSTALLED AND SAFETIED. ENGINE SERVICED WITH 8 QTS OF PHILLIPS X/C 20W50 OIL. LEAK CHECKED SATISFACTORY. PER DA40 AMM CHAPTER 12-10-00.		
		I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24567		
		DATE: 12/31/2012	SIGNED: 	Work Order: 24567
		sgoodfellow	Certified Repair Station No. K5SR339N	Printed by EBis 3 (datcomedia.com)
		Page Total	All Repair Data must bear the Signature of the Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
		Brought Forward		
		Total to Date		


ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number				
	Hrs	Min							
			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>ENGINE MODEL: IC-360-M1A ENGINE S/N: L-32829-51E REG. NO: N500NA WORK ORDER: 24612</p> </div> <div style="width: 45%; text-align: center;"> <p>KEYSTONE AVIATION</p> <p>Keystone Aviation LLC</p> <p>Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801 359-2085</p> </div> </div>	<p>DATE: 1/9/2013 A/C TSN: 2350 ENG TT: 2350 TSMOH: 144 TACH: 779.2</p>					
			<p>Engine Entries</p> <p>TROUBLESHOT THE L/H MAGNETO 300 RPM DROP. CLEANED THE SPARK PLUGS. BY LEANING OUT THE ENGINE AT RUN UP. OPERATIONAL CHECK SATISFACTORY.</p> <p><small>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24612.</small></p>						
			<p>DATE: 1/9/2013</p>	<p>SIGNED: </p> <p><small>Jimmy Gray</small> Certified Repair Station No. K5SR339N</p>	<p>Work Order: 24612</p> <p>Printed by EBis 3 (datcomedia.com)</p>				
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Brought Forward</td> <td style="width: 50%;"></td> </tr> <tr> <td>Total to Date</td> <td></td> </tr> </table>	Brought Forward		Total to Date		<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>	
Brought Forward									
Total to Date									

ENGINE LOG

Serial No. _____

Date	ENGINE MODEL: IO-360-M1A ENGINE S/N: L-32829-51E REG. NO: N500NA WORK ORDER: 24674	 KEYSTONE AVIATION Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone: 801.359-2085	Signature
	Engine Entries REPLACED #2 UPPER SPARK PLUG, WITH NEW P/N REM-38E. RE-INSTALLED REMAINING SPARK PLUGS. OPERATIONAL CHECKED SATISFACTORY.		DATE: 1/15/2013 A/C TSN: 23516 ENG TT: 23516 TSMOH: 1456 TACH: 7808
	I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24674.		
	DATE: 1/15/2013	SIGNED:	Work Order: 24674
		sgoodfellow Certified Repair Station No. K5SR339N	Printed by EBis 3 (datcomedia.com)

			Page Total	All Repair Data must be signed by a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	

ENGINE MODEL:
IO-360-M1A
ENGINE S/N L-32829-51E
REG. NO. N500NA
WORK ORDER: 24910



KEYSTONE AVIATION

Keystone Aviation LLC

Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801 359-2085

DATE: 3/5/2013
A/C TSN: 2397 2
ENG TT: 2397 2
TSMOH: 191.2
TACH: 826.4

Li
Nt

Engine Entries

ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME. *****ENGINE COMPRESSION TEST C/W. CHECKED AS FOLLOWS: #1 76/80 #2 78/80 #3 78/80 AND #4 77/80. CHECKED SATISFACTORY. *****ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. REMOVED OIL SCAVENGE FILTER AND INSPECTED FOR CONTAMINANTS, NONE FOUND, INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFTIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50 PER DA40 AMM CHAPTER 12-10-00. RAN AIRCRAFT: LEAK CHECK SATISFACTORY. *****AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 926.4 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12. *****CYLINDER #1 EXHAUST COUPLING INSTALLED NEW BOLT P/N AN3C4A AND NUT P/N MS21043-3 PER DA40 AMM 78-00-00. *****CYLINDER #3 INDUCTION TUBE GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 71973 PER IO-360-M1A MAINTENANCE AND OVERHAUL MANUAL DATED JULY 2008. LEAK CHECKED SATISFACTORY. *****#2 CYLINDER ROCKER BOX COVER GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 75906 PER IO-360-M1A MAINTENANCE AND OVERHAUL MANUAL DATED JULY 2008. LEAK CHECKED SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24910

DATE: 3/5/2013

SIGNED:


Work Order: 24910

JRay
Certified Repair Station No. K5SR339N

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ENGINE LOG

Serial No. _____

Date	Time	 KEYSTONE AVIATION Keystone Aviation LLC Repair Station No. K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone. 801 359-2085	DATE: 3/19/2013 A/C TSN 2446 9 ENG TT 2397 2 TSMOH 191 2 TACH 876.1
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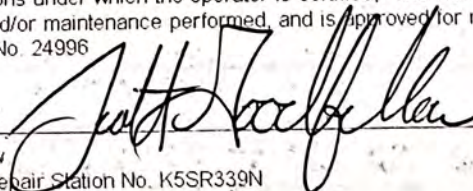
Engine Entries

ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. NEW OIL FILTER P/N CH48110-1 INSTALLED AND SAFETIED. ENGINE SERVICED WITH 8 QTS OF PHILLIPS X/C 20W50 OIL. LEAK CHECKED SATISFACTORY. PER DA40 AMM CHAPTER 12-10-00.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 24996

DATE: 3/19/2013

SIGNED:



Work Order: 24996

sgoodfellow
 Certified Repair Station No. K5SR339N

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		Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
		Brought Forward	
		Total to Date	

ENGINE MODEL
IO-360-M1A
ENGINE S/N L-32829-51E
REG NO N500NA
WORK ORDER 25060



KEYSTONE AVIATION

Keystone Aviation LLC

Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone 801 359-2085

DATE: 4/5/2013
A/C TSN 2495 7
ENG TT 2495 7
TSMOH: 289 7
TACH: 924 9

Date

Engine Entries

Licens
Numbr

ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME. *****ENGINE COMPRESSION TEST C/W. CHECKED AS FOLLOWS: #1 76/80 #2 78/80 #3 78/80 AND #4 77/80. CHECKED SATISFACTORY. *****ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. REMOVED OIL SCAVENGE FILTER AND INSPECTED FOR CONTAMINANTS, NONE FOUND, INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFTIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50 PER DA40 AMM CHAPTER 12-10-00. RAN AIRCRAFT. LEAK CHECK SATISFACTORY. *****AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 1024.9 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12. *****#4 INDUCTION TUBE GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 71973 PER IO-360-M1A OVERHAUL MAINTENANCE MANUAL CHAPTER 76-60-07b DATED JULY 2008. LEAK CHECKED SATISFACTORY. *****#2 CYLINDER ROCKER BOX COVER GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 75906 PER IO-360-M1A OVERHAUL MAINTENANCE MANUAL CHAPTER 76-60-05h4 DATED JULY 2008. LEAK CHECKED SATISFACTORY. *****#3 CYLINDER ROCKER BOX COVER GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 75906 PER IO-360-M1A OVERHAUL MAINTENANCE MANUAL CHAPTER 76-60-05h4 DATED JULY 2008. LEAK CHECKED SATISFACTORY. *****ENGINE IDLE ADJUSTED ACCORDINGLY. WORK DONE IAW DIAMOND DA-40 MM CH: 74-22-01.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 25060

DATE: 4/5/2013

SIGNED:

Work Order: 25060

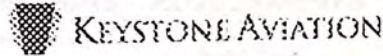
Jray
Certified Repair Station No. K5SR339N

Printed by EBis 3 (datcomedia.com)

ENGINE LOG

Serial No. _____

ENGINE MODEL:
IO-360-M1A
ENGINE S/N: L-32829-51E
REG. NO: N500NA
WORK ORDER: 25174



Keystone Aviation LLC

Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801 359-2085

DATE: 4/24/2013
A/C TSN: 2543 5
ENG TT: 2543 7
TSMOH: 337 5
TACH: 972 7

Engine Entries

(1) ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. REMOVED OIL SCAVENGE FILTER AND INSPECTED FOR CONTAMINANTS. NONE FOUND, INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFTIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50 PER DA40 AMM CHAPTER 12-10-00. RAN AIRCRAFT. LEAK CHECK SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 25174.

DATE: 4/24/2013

SIGNED:

Colin M. Robertson
Certified Repair Station No. K5SR339N

Work Order: 25174

Printed by EBis 3 (datcomedia.com)

		Brought Forward
		Total to Date

All Repair Data must bear the endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Date _____
ENGINE MODEL: IO-360-M1A
ENGINE S/N L-32829-51E
REG NO: N500NA
WORK ORDER: 25237



Keystone Aviation LLC
Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 5/10/2013
A/C TSN: 2595 4
ENG TT: 2595 4
TSMOH: 389 4
TACH: 1024.6

License
Numbe

Engine Entries

(3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.

(4) ENGINE COMPRESSION TEST C/W. CHECKED AS FOLLOWS: #1 79/80 #2 79/80 #3 78/80 AND #4 78/80. CHECKED SATISFACTORY.

(5) ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. REMOVED OIL SCAVENGE FILTER AND INSPECTED FOR CONTAMINANTS, NONE FOUND, INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFTIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50 PER DA40 AMM CHAPTER 12-10-00. RAN AIRCRAFT. LEAK CHECK SATISFACTORY.

(9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 1324.6 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.

(10) ENGINE OIL QUICK DRAIN REMOVED AND REPLACED WITH AN AS REMOVED DRAIN P/N: P500.

(12) UPPER ENGINE CASE HALF BOLT FORWARD OF FLOW DIVIDER RETORQUED PER ENGINE SPECS.

(13) OIL SENSOR ON TOP OF OIL PRESSURE REGULATOR CLEANED AND TIGHTENED. LEAK CHECKED SATISFACTORY.

(16) FUEL LINE LEAKING AT FUEL TRANSDUCER ABOVE FUEL SERVO RIGHT SIDE. CLEANED AND TIGHTENED. LEAK CHECKED SATISFACTORY.

(18) #2 CYLINDER INDUCTION TUBE GASKET REMOVED AND REPLACED WITH NEW GASKET P/N: 71973. LEAK CHECKED SATISFACTORY.

(19) ONE BAFFLE ATTACH SCREW INSTALLED BETWEEN #1 AND #3 CYLINDERS P/N: STD-1925.

ENGINE LOG

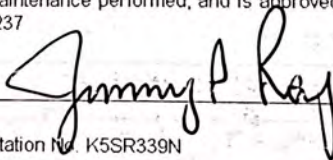
Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	Lic No
	Hrs	Min			

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. 25237

DATE: 5/10/2013

SIGNED:



Work Order: 25237

Jimmy P. Ray
Certified Repair Station No. K5SR339N


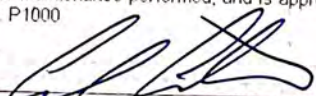
Printed by EBis 3 (datcomedia.com)

		Page Total		
		Brought Forward		
		Total to Date		

**All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.**

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number				
	Hrs	Min							
			<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>ENGINE MODEL IO-360-M1A ENGINE S/N L-32829-51E REG NO N500NA WORK ORDER P1000</p> </div> <div style="width: 30%; text-align: center;">  <p>KEYSTONE AVIATION <small>A SUBSIDIARY OF TRUWANT AIRBORNE COMPANY</small></p> </div> <div style="width: 30%;"> <p>Repair Station No K5SR339N 303 N 2370 W Salt Lake City, Utah 84116 Phone 801-933-7500</p> </div> </div>	<p>DATE 5/23/2013 A/C TSN 2642 8 ENG TT 2642 8 TSMOH 436 8 TACH 1072</p>					
			<p>Engine Entries</p> <p>(1) ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. REMOVED OIL SCAVENGE FILTER AND INSPECTED FOR CONTAMINANTS, NONE FOUND, INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFTIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50 PER DA40 AMM CHAPTER 12-10-00. RAN AIRCRAFT. LEAK CHECK SATISFACTORY.</p>						
			<p>I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1000</p>						
			<p>DATE: 5/23/2013 SIGNED: </p> <p style="text-align: center;">Colin M. Robertson Certified Repair Station No K5SR339N</p>	<p>Work Order: P1000</p> <p>Printed by EBis 3 (datcomedia.com)</p>					
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; text-align: right;"> <p>Brought Forward</p> </td> </tr> <tr> <td style="text-align: right;"> <p>Total to Date</p> </td> <td style="text-align: right;"> <p>Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p> </td> </tr> </table>		<p>Brought Forward</p>	<p>Total to Date</p>	<p>Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>		
	<p>Brought Forward</p>								
<p>Total to Date</p>	<p>Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>								

ENGINE MODEL:
10-360-M1A
ENGINE S/N: L-32829-51E
REG NO: N500NA
WORK ORDER: P1066



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 9/11/2013
A/C TSN: 2695.5
ENG TT: 2642.8
TSMOH: 436.8
HOBBS: 3403.1

Date

Engine Entries

- (3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.
- (4) ENGINE COMPRESSION TEST CW. COMPRESSIONS AS FOLLOWS: CYL # 1 78/80, CYL # 2 78/80 CYL # 3 76/80, CYL # 4 78/80. OPERATIONAL CHECKED SATISFACTORY.
- (5) ENGINE OIL DRAINED HOT. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1 AND SAFETIED. REMOVED OIL SCAVENGE FILTER AND INSPECTED FOR CONTAMINANTS, NONE FOUND, INSTALLED WITH NEW CRUSH GASKET P/N MS35769-21 AND SAFTIED. SERVICED ENGINE WITH 8 QTS OF PHILLIPS X/C 20W-50 PER DA40 AMM CHAPTER 12-10-00. RAN AIRCRAFT. LEAK CHECK SATISFACTORY.
- (9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES CW BY VISUAL INSPECTION PER MSB 342F. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 1224.7 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.
- (15) RESECURED OIL FILLER TUBE AND SAFETIED
- (24) STARTER MODEL 149-24LS / SERIAL # F4L 021201 REMOVED AND REPLACED WITH NEW STARTER MODEL 149-24LS / SERIAL # F4L-011314 IAW DA 40 MM CH: 80-00-00. OPERATIONAL CHECKED SATISFACTORY.

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1066

DATE: 9/11/2013

SIGNED:

Colin M. Robertson
Certified Repair Station No. K5SR339N

Work Order: P1066

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ENGINE MODEL:
IO-360-M1A
ENGINE S/N: L-32829-51E
REG NO: N500NA
WORK ORDER: P1496



Repair Station No. K5SR339N
303 N 2370 W
Salt Lake City, Utah 84116
Phone: 801-933-7500

DATE: 2/3/2014
A/C TSN: 2794 7
ENG TT: 588 7
TSMOH: 588 7
TACH: 1223 9

Engine Entries

- (3) ENGINE HAS BEEN INSPECTED FOR A 100 HOUR INSPECTION PER FAR 43 APPENDIX D AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED AT THIS DATE AND TIME.
- (4) ENGINE COMPRESSION CHECK COMPLIED WITH COMPRESSIONS AS FOLLOWS: CYL # 1 78/80, # 2 78/80, # 3 79/80, # 4 78/80, OPERATIONAL AND LEAK CHECK SATISFACTORY.
- (5) OIL DRAINING.. OIL FILTER REMOVED AND INSPECTED FOR CONTAMINANTS. NONE FOUND. NEW OIL FILTER P/N CH48110-1 INSTALLED AND SAFETIED. ENGINE SERVICED WITH 8 QTS OF AEROSHELL 15W-50 OIL.
- (9) AD 2011-26-04 TO PREVENT FAILURE OF FUEL INJECTION LINES C/W BY VISUAL INSPECTION PER MSB 342G. CHECKED SATISFACTORY. NEXT INSPECTION DUE AT TACH 1323.9 OR ANYTIME FUEL INJECTION LINE MAINTENANCE IS PERFORMED. EFFECTIVE DATE 01/25/12.
- (11) 8 EACH SPARK PLUGS REMOVED AND REPLACED WITH NEW PLUGS P/N REM38E. PER LYCOMING ENGINES SERVICE INSTRUCTION 1042Z. OPERATIONAL CHECKED SATISFACTORY.
- (15) OIL FILLER TUBE GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 72059 AND SAFETIED.
- (16) INSTALLED 1 EACH #3 CYLINDER BAFFLE BOLT P/N STD-1925 AND SECURED.
- (17) #3 CYLINDER ROCKER BOX COVER GASKET REMOVED AND REPLACED WITH NEW GASKET P/N 75906.
- (18) INSTALLED 1 EACH #2 CYLINDER BAFFLE BOLT P/N STD-1925 AND SECURED

I certify the airframe, engine and/or component identified herein was repaired and inspected in accordance with the current Keystone Aviation LLC Repair Manual System and the Federal Aviation Regulations under which the operator is certified, and was determined to be in an Airworthy Condition at this date and time with regards to the inspection(s) and/or maintenance performed, and is approved for return to service as per those requirements. Pertinent details of the repair are on file under Work order No. P1496.

DATE: 2/3/2014

SIGNED:

Jimmy P. Ray
Certified Repair Station No. K5SR339N

Work Order: P1496

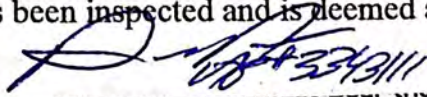
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ENGINE LOG

Serial No. _____

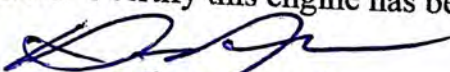
Date			License Number
_____	N500NA	5/15/2014	_____
_____	Diamond DA40-180	TACH: 1320.8	_____
_____	S/N: 40.367		_____
_____	Lycoming IO-360-MIA	S/N: L-32829-51E	_____
_____	<p>Performed 100-hour engine inspection IAW with FAR Part 43 app. D using the Diamond AMM as a guideline and checklist. Ran engine and ops tested. Drained engine oil and removed filter. Cut filter and inspected, no debris noted. Installed new CH48110-1 filter and serviced with 7 quarts of 20W-50 oil. Performed compression test on engine cylinders with the following results 1) 76 2) 76 3) 77 4) 76. Replaced rocker box cover gaskets with new p/n: 75906. Verified engine to magneto timing and found satisfactory at this time. C/W AD 2011-26-04 to prevent failure of fuel injection lines by visual inspection per MSB 342F. Checked satisfactory at this time, next inspection due at Tach 1420.8, or anytime fuel injection line maintenance is performed. Updated bi-weekly AD's through 2014-13. All work done IAW with Diamond DA40 AMM. I certify this engine has been inspected and is deemed airworthy at this time.</p>		
_____			
_____	<small>THE REPAIR ESTIMATE AND ENDORSEMENT OF A Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</small>		
_____	Brought Forward		
_____	Total to Date		

ENGINE LOG

Serial No. _____

Date	Time	Description	Signature	License Number
_____	N500NA	Diamond DA40-180	_____	_____
_____	S/N: 40.367	Lycoming IO-360-MIA	_____	_____
_____		8/1/2014 TACH: 1417.6	_____	_____
_____		S/N: L-32829-51E	_____	_____

_____ Performed 100-hour engine inspection IAW with FAR Part 43 app. D using the Diamond AMM as a
 _____ guideline and checklist. Ran engine and ops tested. Drained engine oil and removed filter. Cut filter and
 _____ inspected, no debris noted. Installed new CH48110-1 filter and serviced with 7 quarts of 20W-50 oil.
 _____ Performed compression test on cylinders with the following results: 1) 77 2) 76 3) 76 4) 76. C/W AD
 _____ 2011-26-04 to prevent failure of fuel injection lines by visual inspection per MSB 342F. Verified engine
 _____ to magneto timing and found satisfactory at this time. Checked satisfactory at this time, next inspection due
 _____ at tach1517.6, or anytime fuel injection line maintenance is performed. Updated bi-weekly AD's through
 _____ 2014-15. All work done IAW with Diamond DA40 AMM. I certify this engine has been inspected and is
 _____ deemed airworthy at this time.


 AOE 334311

		Brought Forward
		Total to Date

All Repair Data Must Bear the Endorsement of a
 Certificated Mechanic, and his Rating and
 Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
—					
—			N500NA Diamond DA40-180 S/N: 40.369 Lycoming IO-360-MIA		
—					
—			Preformed 100hr Engine inspection IAW FAR part 43 appendix D Using Diamond AMM as a guideline and checklist. Ran engine and ops tested. Drained engine oil and removed filter. Cut filter and inspected, no debris noted. Installed new CH48110-1 filter and serviced with 7 quarts of 20W-50 oil.		
—			Performed compression test on cylinders with the following results: 1) 78 2) 78 3) 79 4) 79. C/W AD 2011-26-04 to prevent failure of fuel injection lines by visual inspection per MSB 342F. Removed all spark plugs, cleaned, gaped and inspected, found #2 cylinder spark plugs worn to limits and replaced with new p/n REM38E. Found 1 spark plug on cylinder #1 worn to limits and replaced with new p/n REM38E. Installed all spark plugs and secured.		
—			Found push rod seals leaking on cylinder no.1 and 2. Removed rocker box covers, rocker pin, push rods, tubes, and tappets. Cleaned, inspected and found serviceable. Replaced push rod tube seals p/n 70310 and 06A23493. Installed push rod tubes and secured with push rod tube lock plate p/n LW-12272.		
—			Installed push rods. Replaced rocker shaft thrust buttons on rocker shaft with p/n LW-12892 and installed rocker arms for No. 1 and 2 cylinder intake and exhaust. Performed dry lifter clearance and found satisfactory. Installed rocker box covers and secured. Replaced induction air filter p/n FR-08504.		
—			Replaced 1" SCAT tubing. Verified AD compliance through Bi-weekly 2014-17 Checked engine to magneto timing and found satisfactory. Ran engine and performed leak and operational check, found satisfactory. All work performed IAW Lycoming O/H direct drive engine manual p/n 60294-7.		
—			<i>Sara Daugh</i> AP # 3732173		
—			Brought Forward	Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
—			Total to Date		

ENGINE LOG

Serial No. _____

N500NA
D
Diamond Aircraft DA-40

Date: 09/17/2014

S/N: 40.367

TACH: 1515.0

Lycoming IO-360-M1A

S/N: L-32829-51E

Performed 100 HR inspection IAW with FAR 43 App. D, using Diamond DA40 checklist as a guideline. Ran engine and ops checked.
Performed engine compression check with the following results: 1) 78 2) 78 3) 79 4) 79. Performed engine to magneto timing and found satisfactory at this time. Ran engine and preformed leak check and ops check found satisfactory at this time. I certify this engine has been inspected and is deemed to be in an airworthy condition at this time. All work done IAW with Diamond Aircraft DA40 AMM and Lycoming Direct Drive Engine Overhaul Manual p/n 60294-7.

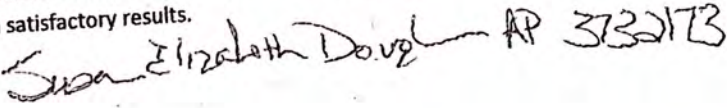
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IAF#
3343161

		Page Total
		Brought Forward
		Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
N500NA			10/17/14		
Diamond DA40-180			Tach: 1554.9		
S/N 40.367			S/N: L-32829-51E		
Lycoming IO-360-M1A					
			<p>Engine oil drained . Oil filter removed and inspected for contaminants. None found. New oil filter P/N CH48110-1 installed and safetied. Engine serviced with 7 QTS of Exxon Elite SAE 20W-50 aviation oil. Removed #3 cylinder head oil drain tube assembly. Installed new tube assembly P/N 68761. Ran engine for leak check with satisfactory results.</p>		
Susan Elizabeth Douglas AP 3732173					
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Description	ature	L N
	Noble AirVentures LLC Maintenance Department 302 Boxboro Rd. Stow, MA 01775		
	N500NA S/N _____ M/M: Diamond DA-40 Tach Time: 1593.7 Acft. TT: 40.367 Date: 11/08/14		
	Removed #4 cylinder due to seized exhaust valve. Drained oil and removed oil filter and sump screen. No unusual debris noted. Installed overhauled cylinder P/N LW-12427, S/N 8557-1. Installed 2 ea. spark plugs P/N REM-38E. Installed new CH48110-1 filter. Installed sump screen with new MS35769-21 gasket. Serviced engine with 7 qt AeroShell 15W-50 oil. At completion of work aircraft was ground run and leak checked with satisfactory results. Test flight conducted this date and post flight engine inspection completed with satisfactory results.		
	Alan R Brown A&P 86401252 <i>Alan R Brown</i>		
	Page Total		
	Brought Forward		
	Total to Date		

All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.

Twin City Airmotive Inc (KFIT) Fitchburg, MA 01420 tel: 978-342-8700 twincity98@verizon.net

Date: 7/31/15 Hobbs: 4052.5 Tach: 1612.6 N 500NA Engine Annual

Compression Test X/80 #1: 71 #2: 77 #3: 75 #4: 76 #5: #6:

Engine SMOH: 977.4 Airframe Serial #: 40.367

Date **Performed the following annual inspection utilizing the manufacturer's annual inspection guide:**

1. Performed compression check on engine with the following results: #1- 71/80, #2- 77/80, #3- 75/80, #4- 76/80.
2. Drained oil and removed filter to cut open and inspect for contaminants - none found. Installed new filter P/N CH48110-1. Oil sample was taken for analysis. Removed suction screen. Cleaned, inspected and reinstalled with new gasket P/N 06E19769-1.00. Serviced engine with 8 Qts of 20W50 Exxon Elite oil. Ran up aircraft and leak checked - none found at this time.
3. Removed all spark plugs. Cleaned, inspected, set gaps, tested. Replaced (1) plug with new P/N REM38E and reinstalled others with new gaskets P/N M674.
4. Retorqued all induction, exhaust and rocker box cover hardware as required.
5. Removed, cleaned and reinstalled fuel injector lines.
6. Serviced fuel system as required. Installed new oring P/N 05-00704 in gascolator.
7. Adjusted alternator belt tension as required.
8. C/W AD 2011-26-04 Fuel Injector Lines. Found clamps backwards on #3 cylinder. Rotated clamps around on #2 cylinder. Installed in accordance to Diagram #1 SB 342E. Next inspection due at Annual 2016/100hrs.
9. C/W AD 2007-11-21 Fuel Select Valve Universal 1000hr with no discrepancies noted at this time.
10. Removed and replaced (3) baffle attachment screws with new.
11. Removed and replaced breather hose with new P/N MILH-6000-5/8 hose.
12. Removed and replaced terminal boot on R/H mag with new.
13. Dressed and painted back of propeller.
14. Removed R/H mag Model 4320 s/n 12071557 and L/H mag Model 4347 s/n 12080441. Disassembled both mags and replaced the following parts in R/H mag: Installed new contact point kit P/N M3081 and (1) distributor block and gear assy P/N K3822. Replaced the following in R/H mag: Installed new primary contact point kit P/N M3081 and new retard primary contact point kit P/N M3637. All work on magnetos was done in accordance with Manual L-1363F 4300 Series Mag Maintenance and Overhaul Manual.

-----Continue-----

Aptis Maintenance, LLC

N500NA

Hobbs: 4086.2

S/N: 40.367

Tach:

302 Boxboro Road, Stow MA 01775

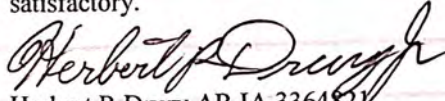
M/M: Diamond DA-40

Acft TT:

Date: July 17, 2018

RS,
S

Clean and gap bottom plug cyl #3. Clean and gap bottom plug cyl #1 and swap with cyl #2 top plug. Correct connection of cyl #1 & 3 EGT probes. Operational check satisfactory.



Herbert R Drury AP-IA 3364821

TACH 163518
7/3/2019 Compression Check: 1-76/80, 2-77/80, 3-76/80, 4-78/80
HOBBS-4330.3 Herbert R Drury A+P 3364821 TACH-163518



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N500NA
Tach: 1637.4**Lycoming, IO-360-M1A, S/N: RL-32829-51E**
SMOH: 1002.0
Hobbs: 4332.2**December 27, 2019**

1. Performed 100hr/Annual Inspection I/A/W AC.43.13-2B using the Diamond DA40 AMM and Lycoming IO-360-M1A Engine Maintenance Manual as a references.
2. Ran engine, then removed cowlings and checked for leaks before washing down the engine.
3. Drained oil, cut and inspected oil filter with no contamination noted. Installed new oil filter, torqued and safety wired as required. Serviced engine with 8 quarts of Aeroshell W80 engine oil.
4. Removed, cleaned, serviced and reinstalled air filter.
5. Installed new spark plugs and torqued to spec as required.
6. Magneto to engine timed checked and adjusted as necessary.
7. Compression check preformed. Compression: #1 75/80, #2 77/80, #3 76/80, #4 72/80.
8. C/W AD 2015-19-07 inspection as per MSB 342G. No defects noted.
9. Checked all oil return lines, cable ties and wiring for proper attachment.
10. All AD's checked bi-weekly through this date.
11. All routine service items performed.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_444.

James T. Markey IA AP3166872IA

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Service Bulletin Letters

wo: WO_537

Engine - page 1 of 1



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N500NA
Tach: 1689.6

Lycoming, IO-360-M1A, S/N: RL-32829-51E
SMOH: 1054.2 Hobbs: 4413.8

March 5, 2020

1. Performed 50 hour inspection I/A/W AC 43.13B, using Diamond DA40 AMM as a reference.
2. Engine run, cowlings removed and engine inspected for fuel and oil leaks.
3. Oil drained, removed old filter, replaced filter with new and safety wired as required. Cut and inspected old filter with no contamination noted/ Serviced engine with 8 quarts Aeroshell W80 engine oil. Installed (8) W80 - Aeroshell Oil, Installed (1) CH48110-1 - Oil Filter.
4. All baffles, hoses, wiring and cable ties examined for defects, none found.
5. Serviced intake air cleaner element and inspected alternate air apparatus.
6. All routine service item performed.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_537.

James T. Markey IA AP3166872IA

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N500NA
Tach: 1738.4**Lycoming, IO-360-M1A, S/N: RL-32829-51E**
SMOH: 1103.0
Hobbs: 4489.3**May 8, 2020**

1. Performed Annual engine inspection I/A/W AC 43.13 Appendix D, using Diamond DA40 AMM and Lycoming IO360-M1A manuals as a guide.
2. Ran engine, then removed cowlings and checked for leaks before washing down engine.
3. Oil change performed. Removed and replaced oil filter with new, torqued and safety wired as required. Serviced engine with 8 quarts Aeroshell W100 Engine Oil. Installed (1) CH48110-1 - Oil Filter, Installed (1) W80 - Aeroshell Oil.
4. Inspected wiring, clamps, hoses, baffling and ty-raps.
5. Removed, cleaned, inspected, serviced and reinstalled air cleaner element.
6. Lubricated all engine and propeller controls and inspected alternate air apparatus.
7. Compression check performed on warm engine: #1. 78/80 #2. 78/80 #3. 78/80 #4. 78/80.
8. Magneto to engine timing checked, and adjusted as necessary.
9. Removed, cleaned, gapped, tested and reinstalled spark plugs. Installed (8) 07-00877 - M674 Plug Gasket.
10. All routine service item performed.
11. AD's Researched bi-weekly thru this date.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_557.

Grant T. Marley #13166872 IA

wo: WO_590

Engine - page 1 of 1



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N500NA

Tach: 1791.7

Lycoming, IO-360-M1A, S/N: RL-32829-51E

SMOH: 1156.3

Hobbs: 4570.1

June 15, 2020

1. Performed 50 hour inspection I/A/W AC 43.13B, using Diamond DA40 AMM as a reference.
2. Engine run, cowlings removed and engine inspected for fuel and oil leaks.
3. Oil drained, removed old filter, replaced filter with new and safety wired as required. Cut and inspected old filter with no contamination noted/ Serviced engine with 8 quarts Aeroshell W80 engine oil. Installed (8) W80 - Aeroshell Oil, Installed (1) CH48110-1 - Oil Filter.
4. All baffles, hoses, wiring and cable ties examined for defects, none found.
5. Serviced intake air cleaner element and inspected alternate air apparatus.
6. All routine service item performed.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_590.

James T. Markey IA AP3166872IA

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N500NA
tach: 1836.2**Lycoming, IO-360-M1A, S/N: RL-32829-51E**
SMOH: 1200.8 hobbs: 4632.0**August 27, 2020**

1. Performed Annual engine inspection I/A/W AC 43.13 Appendix D, using Diamond DA40 AMM and Lycoming IO360-M1A manuals as a guide.
2. Ran engine, then removed cowlings and checked for leaks before washing down engine.
3. Oil change performed. Removed and replaced oil filter with new, torqued and safety wired as required. Serviced engine with 8 quarts Aeroshell W100 Engine Oil. Installed (1) CH48110-1 - Oil Filter, Installed (8) W100 - Aeroshell Oil.
4. Inspected wiring, clamps, hoses, baffling and ty-raps.
5. Removed, cleaned, inspected, serviced and reinstalled air cleaner element.
6. Lubricated all engine and propeller controls and inspected alternate air apparatus.
7. Compression check performed on warm engine: #1. 76/80 #2. 65/80 #3. 75/80 #4. 70/80. Installed (8) 07-00877 - M674 Plug Gasket.
8. Magneto to engine timing checked, and adjusted as necessary.
9. Removed, cleaned, gapped, tested and reinstalled spark plugs. Installed (8) 07-00877 - M674 Plug Gasket.
10. All routine service item performed.
11. AD's Researched bi-weekly thru this date.
12. Tightened propeller governor mounting nuts as required and checked for leaks. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_647.

James T. Markey IA AP3166872IA

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Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N500NA
tach: 1889.1**Lycoming, IO-360-M1A, S/N: RL-32829-51E**
SMOH: 1253.7 hobbs: 4713.0**October 6, 2020**

1. Performed 50 hour inspection I/A/W AC 43.13B, using Diamond DA40 AMM as a reference.
2. Engine run, cowlings removed and engine inspected for fuel and oil leaks.
3. Oil drained, removed old filter, replaced filter with new and safety wired as required. Cut and inspected old filter with no contamination noted/ Serviced engine with 8 quarts Aeroshell W80 engine oil. Installed (8) W80 - Aeroshell Oil, Installed (1) CH48110-1 - Oil Filter.
4. All baffles, hoses, wiring and cable ties examined for defects, none found.
5. Serviced intake air cleaner element and inspected alternate air apparatus.
6. All routine service item performed.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_700.

James T. Markey IA AP3166872IA

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N500NA
hobbs: 4756.4Lycoming, IO-360-M1A, S/N: RL-32829-51E
tach: 1917.9 SMOH: 1282.5

January 2, 2021

1. Performed Annual engine inspection I/A/W AC 43.13 Appendix D, using Diamond DA40 AMM and Lycoming IO360-M1A manuals as a guide.
2. Ran engine, then removed cowlings and checked for leaks before washing down engine.
3. Oil change performed. Removed and replaced oil filter with new, torqued and safety wired as required. Serviced engine with 8 quarts Aeroshell W100 Engine Oil. Installed (1) CH48110-1 - Oil Filter, Installed (8) W100 - Aeroshell Oil.
4. Inspected wiring, clamps, hoses, baffling and ty-raps.
5. Removed, cleaned, inspected, serviced and reinstalled air cleaner element.
6. Lubricated all engine and propeller controls and inspected alternate air apparatus.
7. Compression check performed on warm engine: #1. 76/80 #2. 68/80 #3. 78/80 #4. 62/80. Installed (8) 07-00877 - M674 Plug Gasket.
8. Magneto to engine timing checked, and adjusted as necessary.
9. Removed, cleaned, gapped, tested and reinstalled spark plugs. Installed (8) 07-00877 - M674 Plug Gasket.
10. All routine service item performed.
11. AD's Researched bi-weekly thru this date.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_725.

James T. Markey IA AP3166872IA

A handwritten signature in black ink, appearing to read 'James T. Markey', is written over a horizontal line.

ENGINE DATA

1. Make LYCOMING
2. Model 10-360-M1A
3. Specification _____
4. Manufacturer's Serial Number L-35930-51E
5. Date of Manufacture _____



Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
BROUGHT FORWARD →							

TRIAD AVIATION, Inc. certifies that this engine has been disassembled, inspected, and overhauled to manufacturer overhaul limits direct drive overhaul manual 60294-7 & FAA Regulations. Engine tested in accordance with recommended procedures and is approved for return to service. All applicable A.D. Notes are complied with at the time of overhaul. Pertinent details of this work are on file at this repair station under work order # 29539

MAKE LYCOMING

MODEL IO-360-M1A

S/N L-35930-51E

TOTAL TIME _____

TSMOH 0.0

TBO 2000



Triad Aviation, Inc.
Burlington Municipal Airport
3439 South Aviation Drive
Burlington, NC 27215
336-227-1467

Thomas W. Hester
Authorized Signature

05/23/2025

Date

Test Ran Lycoming IO-360-M1A Engine Serial Number L-35930-51E for 2 hours 15 minutes, RPM 2700, oil pressure 80 lbs., oil temperature 190 degrees, CHT 375. Magneto check at 2100 RPM, L 115 RPM, R 115 RPM. Compression test cylinder #1 79/80 #2 79/80 #3 79/80 #4 77/80. This engine and/or component is approved for return to service. All pertinent details on file at this repair station: TRIAD AVIATION, INC. FAA REPAIR STATION # PP4R448M. WO# 29539

Signed: *Thomas W. Hester* Date: 05/23/2025



3330 AIRPORT LOOP
SALISBURY NC 28147
INFO@SOUTHTECAVIATION.COM
OFFICE: 704-431-6862

DATE: MARCH 10, 2026 | ENG MAKE/MODEL: LYCOMING IO-360-M1A | S/N: L-35930-51E | REG: N500NA
TACH: 2940.3 HRS. ETT: UNKNOWN HRS. ETSO: 0.0 HRS.

PERFORMED ANNUAL INSPECTION IAW DIAMOND DA40-180 AIRCRAFT MAINTENANCE MANUAL CHECKLIST AND LYCOMING ENGINE MAINTENANCE MANUAL. AD'S CHECKED THROUGH BI-WEEKLY NUMBER: 2026-05.

C/W AD 2015-19-07 INSPECTION OF EXTERNAL FUEL INJECTOR LINES IAW LYCOMING ENGINE MSB NO. 342G DATED JULY 16, 2013. NO FAULTS NOTED. NEXT DUE AT TACH: 3050.3.

FILLED WITH SEVEN QUARTS OF AEROSHELL 15W-50.
REPLACED EXHAUST GASKETS IN ALL 4 CYLINDERS P/N: 77611.
PERFORMED SATISFACTORY ENGINE RUN. NO FAULTS NOTED AT THIS TIME.
ALL WORK WAS DONE IAW DIAMOND DA40-180 MAINTENANCE MANUAL AND LYCOMING ENGINE MAINTENANCE MANUAL.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

THIS F
TOTA
PREV
TOTA

CHRISTIAN HEDRICK

Christian Hedrick

A&P/IA 3740465

TOTALS
SINCE NEW

CARRY FORWARD to Top of Next Page