

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

AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

*This Engine Is Equipped With*

***GAMIjectors***<sup>®</sup>

***Performance Fuel Injection***

*NOTE: Fuel Injector Nozzle Location Is Specific  
To Each Cylinder. Refer To Individual Cylinder/Injector  
Identification When Removing/Installing Nozzles.*

***General Aviation Modifications, Inc.***  
*2800 Airport Rd. - Ada, OK 74820 - (580)436-4833*

**ENGINE  
MAINTENANCE  
RECORDS**

**#3 N52908**

# ENGINE MAINTENANCE RECORDS

Log No. 3

Aircraft Registration No. N52908

Engine Manufacturer Lycoming

Model I0-360-A1B6

Serial No. L-28082-51A

Date installed on aircraft 7/1/05 (TACH 3165.7)

Time Between Overhauls (TBO) 2000 Hours

If used on multi-engine aircraft:

- Right       Left
- Front       Rear

(All applicable information must be filled in)



**AEROTECH PUBLICATIONS INC.**

P.O. Box 1359 / Southold, NY 11971-0965  
(516) 765-9375  
1-800-235-6444  
FAX: (516) 765-9359

YEAR DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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<b>MAKE</b>	Lycoming	<b>MODEL</b>	IO-360-A1B6	<b>S/N</b>	L-28082-51A
<b>Total Time</b>	2,055.50	<b>Hours</b>	<b>Time Since Major Overhaul</b>	ZERO	<b>Hours</b>

This engine was disassembled, cleaned, inspected and reassembled with necessary new parts in accordance with a major overhaul as per the manufacturer's current overhaul manual 60294-7. A detailed parts list is on file at this agency. The following accessories were overhauled or exchanged. See maintenance releases in this logbook.

**Installed four (4) new Lycoming cylinder piston kits P/N 05K21120. Installed two (2) new Slick magnetos, right P/N 4370, S/N05031426, left P/N 4372, S/N 031001766. Installed new fuel pump P/N LW15473. Installed flow divider P/N 2524232-2, S/N 0162002, overhauled by Precision Airmotive Corporation. Installed servo P/N 2524054-11, S/N 70212505, rebuilt by Precision Airmotive Corporation. ----End----**

All applicable airworthiness directives and related factory publications have been checked for compliance at this date. See list in this log book. This engine was test run in an FAA approved test cell and meets specifications. The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of repair are on file at this repair station under:

**Work Order #** 9184 **Date** 05/20/2005

**Poplar Grove Airmotive, Inc.**  
 Poplar Grove Airport, Poplar Grove, IL  
 FAA Approved Repair Station #YYBR664L

*[Signature]*  
 Signed for Poplar Grove Airmotive, Inc.

MANUFACTURER	AD #	DESCRIPTION	COMPLIANCE STATUS
Lycoming	66-20-04	oil filter adapter gasket	N/A by engine S/N
IO-360-A1B6	#71-05-02 R4	crankcase	N/A by engine S/N
S/N: L-28082-51A	71-11-02	tappet plunger P/N 76290 and 73065	P/C/W-has tappets P/N 78290
WO# 9184	73-23-01 R4	piston pin P/N 69650	N/A by pin P/N
	75-08-09 R3	oil pump drive shaft with woodruf key	N/A has drive shaft with flats
	75-09-15	fuel flow dividers with P/N "-1"	C/W by flow divider overhaul
	78-23-10	fuel servo	C/W by servo overhaul
	79-04-05	fuel servo	C/W by servo overhaul
	90-04-06 R1	external oil line	C/W by inspection IAW para. (a)(1)
	92-12-05	piston pin P/N LW-14077	N/A by piston pin P/N
	95-26-02	improper fuel	N/A by registration number
	96-09-10 C	oil pump	P/C/W IAW SB524
	96-23-03	fuel pump	N/A new Lycoming pump installed
	97-15-11	piston pin	N/A to new pins installed
	#98-02-08	crankshaft	N/A to engine using controllable pitch prop
	98-17-11 C	crankshaft	N/A by date of manufacture
	#02-26-01	fuel injector lines	C/W IAW Lycoming SB 342A
	Next due at 100-hour/annual inspection		
	03-14-03	fuel pump	N/A by P/N
	#04-10-14	crankshaft gear	C/W IAW Lycoming SB 475C
	Next due after propeller strike, sudden stoppage.		
	<b>Poplar Grove Airmotive Inc.</b>		
	<b>FAA Certified Repair Station YYBR664L</b>		
		<i>[Signature]</i>	<b>Date: 05/20/05</b>

95-07-01 N/A by P/N AEL-75060 bolts installed

MANUFACTURER: Lycoming ENGINE MODEL: IO-360-A1B6 S/N: L-28082-51A WO# 9184

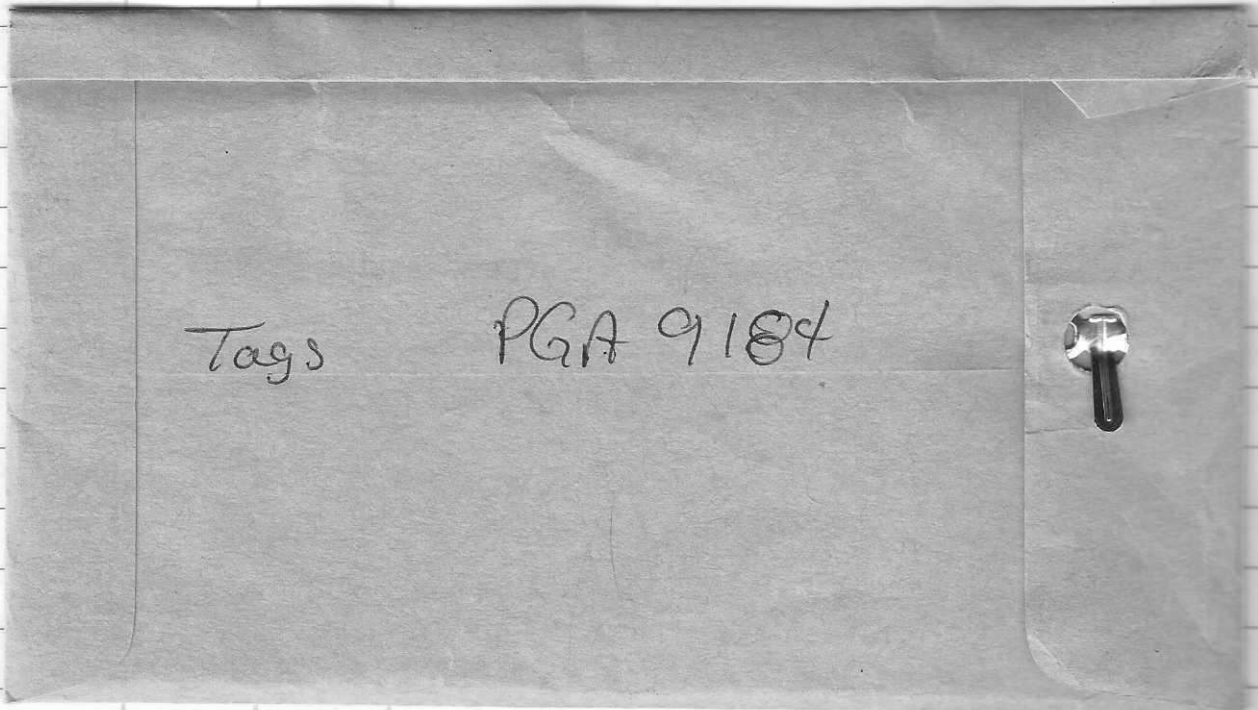
DATE

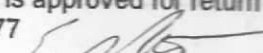
This engine was originally manufactured as a IO-360-A3B6. It was converted to an IO-360-A1B6 by installing prop flange bushings in accordance with Lycoming SI 1098G. All other components remain the same between the two models.


Poplar Grove Airmotive Inc.  
FAA Certified Repair Station YYBR664L



Date: 05/20/06



**Lycoming IO360A1B6D S/N L-28082-51A TACH Time 3194.6 HOBBS 1780.0 October 26, 2005**  
Drained oil, took an oil sample, removed and cut open filter. Contents normal. Filled engine with Aeroshell 80 mineral oil and installed a new oil filter. Tightened exhaust nuts on cylinders 1 and 3. Maintenance was performed IAW Lycoming maintenance manual and is approved for return to service with respect to the work performed. Eric Metzger, IA 454773177 

**Lycoming IO360A1B6 S/N L-28082-51A TACH Time 3211.5 HOBBS 1804.3 March 15, 2006**  
Drained oil, took an oil sample, removed and cut open filter. Contents normal. Filled engine with Exxon Elite 20W50 oil and installed a new oil filter. Cleaned and rotated spark plugs. Maintenance was performed IAW Lycoming maintenance manual and is approved for return to service with respect to the work performed. Eric Metzger, IA 454773177 

**Lycoming IO360A1B6D S/N L-28082-51A TACH Time 3255.8 HOBBS 1848.6 August 1, 2006**

- Drained oil, took an oil sample, removed and cut open filter. Contents normal. Filled engine with Exxon 20W50 oil and installed a new oil filter.
- Cleaned, tested, gapped and rotated plugs
- Checked compressions 79, 78, 79, 78
- Adjusted magneto timing.
- C/W AD 2002-26-01 eff. 01-31-2003 Inspection of Fuel Injector Lines By visual inspection. Due 100hr/annual.

Maintenance was performed IAW Lycoming maintenance manual and is approved for return to service with respect to the work performed. Rod Hatcher, IA 2040750 


SUB-TOTALS this page

TOTALS-Carry forward to next page

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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**Lycoming IO360A1B6D S/N L-28082-51A TACH Time 3282.0 HOBBS 1873.3 November 2, 2006**  
 Drained oil, took an oil sample, removed and cut open filter. Contents normal. Filled engine with Exxon 20W50 oil and installed a new oil filter. Maintenance was performed IAW Lycoming maintenance manual and is approved for return to service with respect to the work performed. Eric Metzger, IA 454773177 *Eric Metzger*

**Northern Air Inc.**

P.O. Box 888380, Gerald R, Ford Int'l Airport, Grand Rapids, MI. 49588-8380

**N52908**

Engine log book entry      Date: 4/6/2007      Hobbs Time: 1885.7  
 Make: Cessna      Model: C-177      Serial No: 177RG1306      Tach: 3301.5

Drained oil, removed filter, inspected, installed new filter supplied by customer, safetied, serviced engine with 7 quarts of EXXON 20W50 supplied by customer. Drained used oil from oil cooler & took SOAP samples with kit supplied by customer. Run up & leak checked good.  
 Lubed bendix as requested by customer.  
 Complied with the Lycoming SI 1492C, oil suction screen inspection. No defects noted. Reinstalled screen with new gasket, torqued and safetied.

The work identified above was performed in accordance with the current Federal Aviation Regulations and was found to be airworthy for return to service. Pertinent details are on file at this agency under:

Work Order # **46188**      Signed: *Wayne Bishop*      For CRS N81R812N

ENGINE MODEL: **Kalamazoo Aircraft, Inc.**      DATE: 9/7/2007  
 IO-360-A-1B6      Repair Station No. K9AR289N      A/C TSN: 3330.1  
 ENGINE S/N: L28082-51A      2729 E Milham Rd.      ENG TT: 2219.9  
 REG. NO: N52908      Kalamazoo, MI 49002      TSMOH: 164.4  
 WORK ORDER:      Phone: 269-381-0790      TACH: 3330.1  
 5052-08-2007

**Engine Entries**

ENGINE ANNUAL INSPECTION COMPLETED PER CESSNA INSPECTION GUIDE AND FOUND TO BE IN AN AIRWORTHY CONDITION...COMPRESSION CHECK: 1) 79/80, 2) 79/80, 3) 79/80, 4) 77/80...CLEANED, GAPPED, & ROTATED SPARK PLUGS...CHANGED OIL AND FILTER, TOOK OIL SAMPLE, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF EXXON ELITE 20W-50 OIL, RAN, LEAK AND OPS CHECK GOOD... REPLACED INDUCTION AIR FILTER

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 9/7/2007      SIGNED: *Ralph Michalka*      Work Order: 5052-08-2007  
 Ralph Michalka      Printed by EBIS 3 (datcomedia.com)  
 Certified Repair Station No. K9AR289N

ENGINE MODEL: **Kalamazoo Aircraft, Inc.**      DATE: 11/2/2007  
 IO-360-A-1B6      Repair Station No. K9AR289N      A/C TSN: 3368.2  
 ENGINE S/N: L28082-51A      2729 E Milham Rd.      ENG TT: 2258  
 REG. NO: N52908      Kalamazoo, MI 49002      TSMOH: 202.5  
 WORK ORDER:      Phone: 269-381-0790      TACH: 3368.2  
 5158-11-2007

**Engine Entries**

CHANGED OIL AND FILTER, FLUSHED COOLER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF EXXON ELITE 20W50 OIL, RAN AND LEAK CHECK GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 11/2/2007      SIGNED: *James R Michalka*      Work Order: 5158-11-2007  
 James R Michalka      Printed by EBIS 3 (datcomedia.com)  
 Certified Repair Station No. K9AR289N

**SUB-TOTALS** this page

**TOTALS**-Carry forward to next page

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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**Northern Air Inc.**

P.O. Box 888380, Gerald R. Ford Int'l Airport, Grand Rapids, MI. 49588-8380

**N52908**

Engine log book entry      Date: 2/28/2008      Hobbs: 1950.0  
 Make: Cessna      Model: C-177RG      Serial No: 177RG1306      Tach: 3382.0

Drained oil. Took oil sample. Removed filter and opened, no abnormalities noted. Installed new filter, torqued and safetied. Serviced engine with 7 quarts Exxon 20W50 oil and 8 ounces of Camguard.

Complied with the Lycoming SI 1492C, oil suction screen inspection. No defects noted. Reinstalled screen with new gasket, torqued and safetied.

The work identified above was performed in accordance with the current Federal Aviation Regulations and was found to be airworthy for return to service. Pertinent details are on file at this agency under;

Work Order # **47565**      Signed: *Chris Allchin*      For CRS N81R812N

6/21/08	3405.7	2990	3405.7	Drained oil + took sample. Removed filter. Installed new filter, torqued + safetied. Serviced with 7 quarts Exxon 20W50 oil. by Joel Zieve, owner/pilot. cert # 277 8634
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ENGINE MODEL: IO-360-A-1B6  
 ENGINE S/N: L28082-51A  
 REG. NO: N52908  
 WORK ORDER: 5573-09-2008

**Kalamazoo Aircraft, Inc.**  
 Repair Station No. K9AR289N  
 2729 E Milham Rd.  
 Kalamazoo, MI 49002  
 Phone: (269) 381-0790

DATE: 10/3/2008  
 A/C TSN: 3428.8  
 ENG TT: 2318.6  
 TSMOH: 263.1  
 TACH: 3428.8

**Engine Entries**

ENGINE ANNUAL INSPECTION COMPLETED AND FOUND TO BE IN AN AIRWORTHY CONDITION...COMPRESSION CHECK: 1) 78/80, 2) 77/80, 3) 76/80, 4) 77/80...CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF EXXON ELITE 20W50 OIL...RAN, LEAK AND OPS CHECK GOOD... SET TIMING ON RH MAG TO 20 DEG BTDC... REMOVED #2 EXHAUST STACK, SENT OUT FOR REPAIR, REINSTALLED... REMOVED FUEL INJECTOR NOZZLES AND CLEANED, RE-INSTALLED NOZZLES AND TORQUED PER TCM MANUAL, PRESSURE CHECK AND LEAK CHECKED, RAN AND OPS CHECKED GOOD... INSTALLED NEW BRACKET INDUCTION AIRFILTER... REMOVED HEAT SHIELD FROM CROSSOVER PIPE. REPLACED TWO STAINLESS STEEL RIVETS AND REINSTALLED.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 10/3/2008

SIGNED: *Ralph Michalka*  
 Ralph Michalka  
 Certified Repair Station No. K9AR289N

Work Order: 5573-09-2008

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ENGINE MODEL: IO-360-A-1B6  
 ENGINE S/N: L28082-51A  
 REG. NO: N52908  
 WORK ORDER: 5706-02-2009

**Kalamazoo Aircraft, Inc.**  
 Repair Station No. K9AR289N  
 2729 E Milham Rd.  
 Kalamazoo, MI 49002  
 Phone: (269) 381-0790

DATE: 2/28/2009  
 A/C TSN: 3443.1  
 ENG TT: TACH: 3443.1

**Engine Entries**

CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 6 QUARTS EXXON ELITE 20W50 OIL, RAN, LEAK AND OPS CHECK GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 2/28/2009

SIGNED: *James R Michalka*  
 James R Michalka  
 Certified Repair Station No. K9AR289N

Work Order: 5706-02-2009

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DATE	TO TII II SER	Reg#: N52908 Tach: 3462.4	Make: Cessna Lycoming:	Model: 177RG	S/N: 177RG1306	WORK
		<ol style="list-style-type: none"> <li>1. Drained engine oil, drained oil cooler, took oil sample, replaced engine oil filter. Cut open oil filter and inspected, no defects noted. Serviced with Exxon 20W-50 oil.</li> <li>2. Cleaned and tested spark plugs on #4 cylinder.</li> <li>3. Post inspection operational and functional checks found to be satisfactory.</li> </ol>				
		<p>This aircraft was repaired and inspected in accordance with the applicable manufacturer's maintenance manuals and current Federal Aviation Administration regulations, and only that work performed is approved for return to service. Pertinent details are on file at this repair station under Work Order #910401.</p>				
		<p style="text-align: center;"><i>Joe Newman</i>                  DATE: 6-17-2009                  Joe Newman Inspector CRS # W2OR467Y                  Centennial Aircraft Services, Inc., 2850 Territorial Road West, Battle Creek, MI 49015</p>				
<b>Northern Air Inc.</b> P.O. Box 288380, Gerald R. Ford Int'l Airport, Grand Rapids, MI. 49588-8380 <span style="float: right;"><b>52908</b></span>						
		Engine log book entry	Date: 8/25/2009	Tach Meter	3482.6	
		Make: Cessna	Model: 177RG	Serial No: 177RG1306	Hobbs Hours: 2052.6	
		Drained the oil, removed and inspected the oil filter. No abnormal deposits were noted. Installed a new oil filter, and serviced the crankcase with 7 qts. of Exxon 20w50 Elite oil. Ran the engine, no leaks were noted.				
		Complied with SI 1492C by inspecting the oil pump suction screen for contamination, and none was noted. Reinstalled the suction screen with a new crush gasket, torqued, and safelied the cap.				
		Complied with AD2008-14-07 inspection of fuel injection lines per Lycoming Service Bulletin 342E. Satisfactory.				
		Took Oil sample. Drained oil cooler Lubricated starter bendix.				
		The work identified above was performed in accordance with the current Federal Aviation Regulations and was found to be airworthy for return to service. Pertinent details are on file at this agency under:				
		Work Order #	49419	Signed: Peter Knight	<i>Peter Knight</i>	For CRS N81R812N
		ENGINE MODEL: IO-360-A-1B6 ENGINE S/N: L28082-51A REG. NO: N52908 WORK ORDER: 5935-09-2009	<b>Kalamazoo Aircraft, Inc.</b> Repair Station No. K9AR289N 2729 E Milham Rd. Kalamazoo, MI 49002 Phone: (269) 381-0790	DATE: 11/17/2009 A/C TSN: 3502.7 ENG TT: FLIGHTTIME: 3502.7		
		<b>Engine Entries</b> I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTION IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION... COMPRESSION CHECK: 1) 78/80, 2) 78/80, 3) 78/80, 4) 78/80,... CHANGED OIL AND FILTER, DRAINED OIL COOLER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF EXXON ELITE 20W50 OIL... RAN, LEAK AND OPS CHECK GOOD.... C/W AD 2008-14-07 DATED 8/14/2008 BY INSPECTION OF FUEL INJECTOR LINES, NO DEFECTS NOTED AT THIS TIME. DUE 100 HRS.... LUBED STARTER BENDIX W/ SILICON SPRAY... CLEANED AND ROTATED SPARK PLUGS.... OIL SAMPLE SEND IN FOR ANALYSIS.... INSTALLED NEW ENGINE INDUCTION AIR FILTER (BA5705)... REMOVED AND CLEANED #2 INJECTOR, INSTALLED, TORQUED AND LEAK CHECKED.				
		The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.				
		DATE: 11/17/2009	SIGNED: <i>James R Michalka</i>	Work Order: 5935-09-2009		
			James R Michalka Certified Repair Station No. K9AR289N	Printed by EBis 3 (datcomedia.com)		
		ENGINE MODEL: IO-360-A-1B6 ENGINE S/N: L28082-51A REG. NO: N52908 WORK ORDER: 6031-01-2010	<b>Kalamazoo Aircraft, Inc.</b> Repair Station No. K9AR289N 2729 E Milham Rd. Kalamazoo, MI 49002 Phone: (269) 381-0790	DATE: 1/19/2010 A/C TSN: 3518.9 ENG TT: TACH: 3518.9		
		<b>Engine Entries</b> CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, DRAINED OIL COOLER, SERVICED ENGINE WITH 7 QUARTS OF ELITE 20W50 OIL, RAN AND LEAK CHECK GOOD.				
		The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.				
		DATE: 1/19/2010	SIGNED: <i>James R Michalka</i>	Work Order: 6031-01-2010		
			James R Michalka Certified Repair Station No. K9AR289N	Printed by EBis 3 (datcomedia.com)		

DATE

ENGINE MODEL: **Kalamazoo Aircraft, Inc.**  
IO-360-A-1B6  
ENGINE S/N: L28082-51A Repair Station No. K9AR289N  
REG. NO: N52908 2729 E Milham Rd.  
WORK ORDER: Kalamazoo, MI 49002  
6124-05-2010 Phone: (269) 381-0790

DATE: 5/3/2010  
A/C TSN: 3533.5  
ENG TT:  
TACH: 3533.5

**Engine Entries**

CHANGED OIL AND FILTER, DRAINED COOLER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF ELITE 20W50 OIL, RAN AND LEAK CHECK GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 5/3/2010

SIGNED:

Work Order: 6124-05-2010

Ralph Michalka  
Certified Repair Station No. K9AR289N

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ENGINE MODEL: **Kalamazoo Aircraft, Inc.**  
IO-360-A-1B6  
ENGINE S/N: L28082-51A Repair Station No. K9AR289N  
REG. NO: N52908 2729 E Milham Rd.  
WORK ORDER: Kalamazoo, MI 49002  
6187-07-2010 Phone: (269) 381-0790

DATE: 7/2/2010  
A/C TSN: 3541.8  
ENG TT:  
TACH: 3541.8

**Engine Entries**

CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF EXXON ELITE 20W50 OIL, RAN AND LEAK CHECK GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 7/2/2010

SIGNED:

Work Order: 6187-07-2010

James R Michalka  
Certified Repair Station No. K9AR289N

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ENGINE MODEL: **Kalamazoo Aircraft, Inc.**  
IO-360-A-1B6  
ENGINE S/N: L28082-51A Repair Station No. K9AR289N  
REG. NO: N52908 2729 E Milham Rd.  
WORK ORDER: Kalamazoo, MI 49002  
6348-11-2010 Phone: (269) 381-0790

DATE: 12/15/2010  
A/C TSN: 3603.4  
ENG TT:  
TACH: 3603.4

**Engine Entries**

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION... COMPRESSION CHECK: 1) 78/80, 2) 75/80, 3) 75/80, 4) 75/80... CHANGED OIL AND FILTER, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF ELITE 20W50 OIL... RAN, LEAK AND OPS CHECK GOOD.... REMOVED, REPAIRED AND REINSTALLED CROSSOVER HEAT SHIELD BRACKET, REINSTALLED HEAT SHIELD.... INSTALLED NEW SEAL AND GASKET ON #3 INDUCTION PIPE.... C/W AD 2008-14-07 DATED 8/14/2008 BY VISUAL INSPECTION OF FUEL INJECTOR LINES, NO DEFECTS AT THIS TIME, DUE 100 HRS.... INSTALLED NEW INDUCTION AIR FILTER.... REMOVED, CLEANED AND REINSTALLED #3 FUEL INJECTOR.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 12/15/2010

SIGNED:

Work Order: 6348-11-2010

James R Michalka  
Certified Repair Station No. K9AR289N

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ENGINE MODEL: **Kalamazoo Aircraft, Inc.**  
IO-360-A-1B6  
ENGINE S/N: L28082-51A Repair Station No. K9AR289N  
REG. NO: N52908 2729 E Milham Rd.  
WORK ORDER: Kalamazoo, MI 49002  
6381-01-2011 Phone: (269) 381-0790

DATE: 2/18/2011  
A/C TSN: 3605.3  
ENG TT:  
TACH: 3605.3

**Engine Entries**

SWAPPED #2 AND #4 FUEL INJECTORS AS PER, RAN, LEAK OPS CHECKED GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 2/18/2011

SIGNED:

Work Order: 6381-01-2011

James R Michalka  
Certified Repair Station No. K9AR289N

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ENGINE MODEL: **Kalamazoo Aircraft, Inc.**  
IO-360-A-1B6  
ENGINE S/N: L28082-51A Repair Station No. K9AR289N  
REG. NO: N52908 2729 E Milham Rd.  
WORK ORDER: Kalamazoo, MI 49002  
6447-04-2011 Phone: (269) 381-0790

DATE: 4/20/2011  
A/C TSN: 3616.5  
ENG TT:  
TACH: 3616.5

**Engine Entries**

CHANGED OIL AND FILTER, TOOK OIL SAMPLE, INSPECTED REMOVED FILTER, NO DEFECTS FOUND, SERVICED ENGINE WITH 7 QUARTS OF EXXON ELITE 20W50 OIL, DRAINED OIL COOLER, RAN AND LEAK CHECK GOOD.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Details are on file at this certified repair station.

DATE: 4/20/2011

SIGNED:

Work Order: 6447-04-2011


James R Michalka  
Certified Repair Station No. K9AR289N

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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
7-22-11			3654.9	<b>TOTALS</b> brought forward from previous page
				Charged oil & oil filter. Inspected old filter. Took oil sample. Serviced engine with 6 qts of Exxon Elite 20W50 oil & CH48110-1 oil filter. Engine washed, ground run, checked for leaks. No leaks noted. Added 1/2 qt. of engine guard. John E. Coulter 402065620 IA
9-1-2011	TTSO 489.40	3655.1		Compression Check #1 <sup>80</sup> / <sub>75</sub> #2 <sup>80</sup> / <sub>75</sub> #3 <sup>80</sup> / <sub>72</sub> #4 <sup>80</sup> / <sub>76</sub> Oil was changed at tach time 3654.9. Cleaned, gapped & tested spark plugs. Removed mag to C/W 500hr inspection. Disassembled, cleaned & inspected & reassembled using brush & spring Assy P/N AM3215 in right mag, Bear P/N K3008 & point kit P/N A13081 in left mag. Reinstalled mag with new gaskets P/N L W 12681 & timed to engine. Checked exhaust system, checked induction system. Replaced induction air filter element using B45705. Checked engine controls. Checked lines, hoses & connections C/W A.D. 08-14-07 inspection of fuel injector lines. Engine washed, ground run, checked for proper operation & leaks. No leaks noted. I certify that this engine has been inspected in accordance with a 100hr/annual inspection & is approved for return to service. John E. Coulter 402065620 IA
May 15, 2012				Engine IO-360-A-1B6, SN L28082-51A      Airframe Tach Time 3697.0 Engine Time Since 0-time rebuild 531.3 Drained Engine oil sump & oil cooler, took oil sample, inspected old filter, no defects found, Serviced engine with 6 quarts Exxon Elite 20W50 oil, 500ml Cam Guard & Champion CH48110-1 filter. Ran engine checked for leaks, no leaks found.
May 15, 2012				<u>James E. Useton</u> Owner/Pilot Certificate #1847321 James E. Useton

**SUB-TOTALS** this page

**TOTALS**-Carry forward to next page

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
11-1-12	2591.6	536.1	3701.8	<b>TOTALS</b> brought forward from previous page
<p>ckd Oil Screen &amp; oil filter. Here - no contaminants noted - Fuel Nozzles cleaned - Fuel lines inspected per SB 342F (AD 2011-26-04) AD 2012-03-06 w/A Per Precision wheel 2524054-11 servo is installed - AD 2012-19-01 Per crankshaft replacement, is done by 5-2017, 200hr TBO or next crankcase separation - washed engine down - old mag timing, cleaned, gapped, tested + rotated spark plugs - ckd plug heads, compression ckd #1 76/80, #2 76/80 #3 74/80, #4 74/80 - serviced air filters - dressed &amp; painted &amp; inspected Prop Assy - I certify this engine/prop was inspected IAD on ANNUAL inspection and was deemed airworthy at this time</p> <p style="text-align: right;">CB Wright AUP 1710103 JA.</p>				
October 12, 2013	Engine IO-360-A-1B6, SN L28082-51A		Airframe Tach Time: 3735.0	Engine Time Since 0-time rebuild: 569.3
<p>Drained engine oil sump &amp; oil cooler, took oil sample, inspected oil pump suction screen &amp; old filter, no contaminants noted, serviced engine with new Tempest AA48110-1 filter, 6 quarts Exxon Elite 20W50 oil &amp; 500ml Cam Guard, safe-tied filter, oil screen cap &amp; oil cooler drain cap. Ran engine checked for operation &amp; leaks, no leaks found.</p>				
October 12, 2013	 James E. Uselton		Owner/Pilot Certificate #1847321	
1-09-14	TACH 3745.2			<p>compression ckd #1 76/80, #2 74/80 #3 78/80, #4 76/80 - cleaned fuel nozzles &amp; inspected lines per SB 342F (Revised 7-17-13) AD 2011-26-04 <del>SB</del> ckd fuel &amp; heat shields. ckd mag timing, cleaned, gapped, tested &amp; rotated spark plugs, ckd heads &amp; washed engine down - I certify this engine was inspected IAD on ANNUAL inspection and was deemed airworthy at this time</p> <p style="text-align: right;">CB Wright AUP 1710103 JA.</p>

**SUB-TOTALS** this page

**TOTALS**-Carry forward to next page

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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**TOTALS** brought forward from previous page

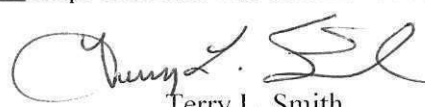
July 5, 2014 Engine IO-360-A-1B6, SN L28082-51A Airframe Tach Time: 3772.7  
Engine Time Since 0-time rebuild: 607.0  
 Drained engine oil sump & oil cooler, took oil sample, inspected oil pump suction screen & old filter, no contaminants noted, serviced engine with new Tempest AA48110-2 filter, 6 quarts Exxon Elite 20W50 oil & 500ml Cam Guard, safe-tied filter, oil screen cap & oil cooler drain cap. Ran engine checked for operation & leaks, no leaks found.

July 5, 2014  Owner/Pilot Certificate #1847321  
 James E. Uselton

2-1-15 26883 629.0 3794.7 - cleaned fuel nozzles, cleaned, gapped & tested SPARK plugs, checked plug leads. compression check #1- 75/80 #2- 75/80 #3- 75/80 #4- 75/80 - Fuel Lines inspected per AD 2011-26-04 - I certify this engine was inspected via an ANNUAL inspection and was deemed airworthy at this time - Ground Run OK  
 Col Wright AWP 17/10/03 IA

July 4, 2015 Engine IO-360-A-1B6, SN L28082-51A Airframe Tach Time: 3805.4  
Engine Time Since 0-time rebuild: 639.7  
 Drained engine oil sump & oil cooler, took oil sample, inspected oil pump suction screen & old filter, no contaminants noted, serviced engine with new Tempest AA48110-2 filter, 6 quarts Exxon Elite 20W50 oil & 250ml Cam Guard, safe-tied filter & oil cooler drain cap. Ran engine checked for operation & leaks, no leaks found.

July 4, 2015  Owner/Pilot Certificate #1847321  
 James E. Uselton, Member  
 FUN-AIR, LLC

April 07, 2016 Engine: IO360-A1B6 S/N: L-28082 - 51A TTAF: 3837.3  
TTE: 2727.1  
Time SMOH: 671.6  
 Cleaned fuel nozzles, cleaned checked gap and tested Champion P/N REM 38S spark plugs, check leads, magneto to engine timing, compression check #1 80/70; #2 80/70; #3 80/69; #4 80/71. Fuel lines inspected per AD 2011-26-04, removed cleaned and inspected fuel strainer, checked alternator belt tension and condition, checked engine exhaust for cracks, leaks, security and condition, checked controls for security and condition, AD 2012-19-01 due 5-20-2017. Oil change was completed prior to annual inspection by owner July 4, 2015, 31.9 hours. Performed engine run-up, all work completed per FAR's, checklist, and engine service manual.  
 "I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition."  
  
 Terry L. Smith  
 A&P 3483764 IA

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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September 17, 2016 Engine IO-360-A-1B6, SN L28082-51A Airframe Tach Time: 3847.8  
 Engine Time Since 0-time rebuild: 682.1

Drained engine oil sump & oil cooler, took oil sample, removed & inspected oil pump suction screen & old filter. No contaminants noted. Serviced engine with new Tempest AA48110-2 filter, 6 quarts Exxon Elite 20W50 oil & 270ml Camgard, safe-tied filter, oil cooler drain cap & oil pump suction screen plug. Ran engine & checked for operation & for leaks; no leaks found. Returned to service.

September 17, 2016 *James E. Uselton* Owner/Pilot Certificate #1847321  
 James E. Uselton, Member, FUN-AIR, LLC

MAKE	Lycoming	MODEL	IO-360-A1B6	S/N	L-28082-51A
Total Time	2754.6	Hours	Time Since Overhaul	699.1	Hours

The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. (As detailed below) Pertinent details of repair are on file at this repair station under:

Work Order # 8522 Date 29/Jun/2017

Engine disassembled, cleaned, and inspected for crankshaft replacement per AD 2012-19-01. Installed crankshaft P/N 13B47219, S/N V537973245. Installed camshaft P/N LW-18840 new from Lycoming. Installed lifters P/N 15B26262 new from Lycoming. Inspected and repaired cylinders as required. Fit and installed new rings and existing pistons. See maintenance release tag for further details. Reinstalled magnetos after visual inspection. Reinstalled fuel system. Complied with AD 09-02-03 fuel servo plug gasket. This engine was test run in an FAA approved test cell and meets specifications. See A.D. Compliance Records and Parts List for further details.-----END-----

Poplar Grove Airmotive, Inc.  
 Poplar Grove Airport, Poplar Grove, IL  
 FAA Approved Repair Station #YYBR664L

Terry Aavang *Terry Aavang*  
 Signed for Poplar Grove Airmotive, Inc.

AD #	DESCRIPTION	COMPLIANCE STATUS
66-20-04	oil filter adapter gasket	N/A by gasket P/N
71-05-02 R4	crankcase	N/A by engine S/N
71-11-02	tappet plunger P/N 76290 and 73065	P/C/W-has tappets P/N 78290
73-23-01 R4	piston pin P/N 69650	N/A by pin P/N
75-08-09 R3	oil pump drive shaft	N/A has drive shaft with flats
75-09-15	fuel flow divider	N/A by P/N
78-23-10	fuel servo	N/A by servo P/N
79-04-05	fuel servo	N/A by servo P/N
90-04-06 R1	external oil line	No oil line supplied, installer to comply with
92-12-05	piston pin P/N LW-14077	N/A by pin P/N
95-07-01	connecting rod bolts	N/A by new bolts installed
95-26-02	improper fuel	N/A by registration number
96-09-10 C	oil pump	P/C/W IAW SB524
96-23-03	fuel pump	N/A by pump date copde
97-15-11	piston pin	N/A by pin P/N
98-02-08	crankshaft	N/A engine uses constant speed prop

Poplar Grove Airmotive, Inc.  
 FAA Repair Station YYBR664L Terry Aavang *Terry Aavang* Date: 29/Jun/2017

SUB-TOTALS this page

TOTALS-Carry forward to next page

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

<b>MANUFACTURER:</b> Lycoming		<b>ENGINE MODEL:</b> IO-360-A1B6	<b>S/N:</b> L-28082-51A	<b>WO#</b> 8522
AD#	Description	Compliance Status		
98-17-11 C	crankshaft	N/A by new crankshaft installed		
03-14-03	fuel pump	N/A by diaphragm pump		
04-10-14 C	crankshaft gear	C/W IAW SB 475C		
05-19-11	failure of crankshaft	N/A by crankshaft S/N		
06-06-16	crankshaft failure	N/A by crankshaft S/N		
09-02-03	Precision fuel servo	C/W by inspection and gasket replacement		
12-03-06C	AFS servo diaphragm	N/A not AFS servo		
12-19-01	crankshaft failure	C/W by new crankshaft installed S/N V537973245		
15-02-07	Prop Gov. Shaft set screw	N/A by engine model		
15-19-07	fuel injector lines	C/W by inspection I/A/W SB 342G, dia. 4		
<b>Poplar Grove Airmotive Inc.</b>				
<b>FAA Certified Repair Station YYBR664L</b> <u>Terry Aavang</u> <i>Terry Aavang</i> <b>Date:</b> 29/Jun/2017				

August 27, 2017 Engine: IO360-A1B6 S/N: L-28082 - 51A TTAF: 3864.8  
 TTE: 2754.6  
 Time SMOH: 699.1

Installed engine receive from Poplar Grove Airmotive, Inc. Installed prop, fuel servo, prop governor, associated wiring, fluid lines and hoses. Checked magneto to engine timing, filled with Aeroshell 100 oil, performed engine run-up. Performance checks and instrument ranges within mfg. specification. Inspected for leaks, replaced Tempest AA48110-2 oil filter. All work completed per FAR's, checklist, PGA Inc. suggested Break-in Procedures (CRS YYB664L) and Lycoming/Cessna service manuals.

"I certify this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition."


*Terry L. Smith*  
 Terry L. Smith  
 A&P 3483764 IA

March 24, 2018 Engine IO-360-A-1B6 SN L28082-51A Tach 3889.4, Hour Meter 2386.7  
 Drained engine sump, oil filter, oil cooler drain, oil screen, removed and inspected oil pump suction screen, old oil filter, checked for contaminants, found none. Serviced engine with new Tempest 48110-2 oil filter, 6.5 qts Exxon Elite 20-50, 150 ml Cam Guard, safe tied oil suction screen plug, oil filter and oil cooler drain, performed run-up to check operation and for leaks, no leaks found, returned to service.

March 24, 2018 James E. Uselton *James E. Uselton* Owner Pilot Certificate 1847321  
 James E Uselton, Member, FUN-AIR, LLC


			<b>SUB-TOTALS</b> this page
			<b>TOTALS</b> -Carry forward to next page



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
12/04/2020:	4015.0 TACH,	2904.6 TTE,	849.1 TSMOH:	Annual inspection done this date. Compression check #1. 76, 2. 77, 3. 75 and 4. 76 over 80 psi. Verified timing, cleaned and gapped plugs, cleaned fuel nozzles, changed oil added 6qt Phillips 66 20w-50, installed Tempest filter P/N AA48110-2, cleaned air intake filter and installed new gasket P/N CP-117 IAW Challenger ICA 4003, Inspected muffler and baffling. Performed run up check. Work done per FAR's checklists, and Engine Service manual. I certify this ENGINE has been inspected I.A.W. annual inspection and determined to be in airworthy condition.  James R. Faustina AP/IA 2807061

# PARADISE VALLEY AVIATION

1413 East Main Street, Clarksville Arkansas

Date: 10/28/2021                      Model: IO-360-A1B6                      Serial Number: L-28082-51A  
 Registration # N52908                      Tach: 4021.40

Performed a tear down and inspections for prop strike in accordance with Lycoming SB 533B as follows: Removed engine from N52908, Cessna 177RG, Disassembled engine, cleaned and visually inspected all parts. Engine components reworked as follows:

Crankshaft- S/N R55839-1 Magnafluxed, grind rear thrust of front main journal, Renitrided, polished rod and main journals standard size. Work performed by Rick Romans Inc of Tulsa OK, under work order #55839.

Camshaft- S/N R55839-2 reground and reworked by Rick Romans Inc of Tulsa Ok under WO #55839.

Lifter Bodies- Installed 8 lifter bodies P/N 72877 overhauled by Aircraft Specialties Services under work order 262120.

Gears- Magnafluxed and inspected by Rick Romans Inc of Tulsa Ok under WO #55839.

Connecting Rods- 4 each P/N LW77450 magnafluxed, rebushed, inspected, reworked by Rick Romans Inc of Tulsa Ok under WO #55839.

Crankcase- P/N C/N 20061R/L, S/N M/N TPA766PT, Inspected/reworked by Crankcase Services Inc under WO #33946.

Cylinders- Inspected and reinstalled as removed.

Accessories- Visually inspected magnetos and bench tested, Reinstalled all other accessories as removed.

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**TOTALS**-Carry forward to next page



