

# AIRCRAFT TECHNICAL LOGS

## Section 3. ENGINE

## ENGINE LOG

1. Make LYCOMING
2. Model JO-360-M1A
3. Specification 1E10
4. Manufacturer's Serial Number L-31478-51A
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_

# Export Certificate of Airworthiness

This certifies that the product identified below and more particularly described in Specification (s)<sup>1</sup> of the Federal Aviation Administration, Numbered **1E10** has been examined and as of the date of this certificate, is considered airworthy in accordance with a comprehensive and detailed airworthiness code of the United States Government, and is in compliance with these special requirements of the importing country filed with the United States Government, except as noted below. This certificate in no way attests to compliance with any agreements or contracts between the vendor and purchaser, nor does it constitute authority to operate an aircraft.

Product: **Aircraft Engine**

Manufacturer: **Lycoming Engines**

Model: **IO-360-M1A**

Serial No.: **L-31478-51A**

New  Newly Overhauled

Used Aircraft

Country to which exported: **Canada**

Exceptions: **None**



**Ted M. Dougherty**

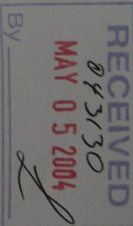
Signature of Authorized Representative

**April 19, 2004**

Date

**DMIR810325NE**

District Office or Designee Number



<sup>1</sup> For complete aircraft, list applicable specification or Type Certificate Data Sheet numbers for the aircraft, engine, and propeller. Applicable specifications or Type Certificate Data Sheet, if not attached to this export certificate, will have been forwarded to the appropriate governmental office of the importing country.

## ENGINE SERVICE AND

## MAINTENANCE RECORD

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE REPAIRS, ADJUSTMENTS, MODIFICATIONS TRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.			
					<i>ENGINE INSTALLED NEW ON DAYCO</i>		
					Engine installation inspected I.A.W. Diamond Aircraft Industries W.O. # 999-1		
					Engine service with 8 qts. Of Philips 20W50 Type "M" engine oil.		
					Engine break-in I.A.W. Lycoming Service Instruction 1427B.		
					<b>FLIGHT TEST COMPLETED</b>		
21 JUL 2004			6.2		HOURS BROUGHT FORWARD		

5/1/40 388

DA  
Q 13

MAKE <i>LYCOMING</i>	MODEL <i>FJ-360 M1A</i>	SERIAL No./N No. <i>L-31478-51A</i>
TOTAL TIME <i>52.6</i>	TACH READING	DATE <i>8-26-2004</i>
<i>Performed 100 hour inspection. complete 74 74 74 74</i> <i>Changed oil &amp; filter. Installed 8 qts mixture oil.</i> <i>Filter inspection satisfactory. Engine ground run</i> <i>check checked operational check Satisfactory.</i> <i>On HD 2002-26-01 by inspection this engine has</i> <i>been inspected in accordance with 100hr inspection</i> <i>and been found to be in Airworthy condition and</i> <i>is allowed to return to service.</i> <i>Michael P. Kusko</i> AUTHORIZED SIGNATURE		
TELEDYNE MATTIUCK SERVICES, INC. FAA Repair Station T10R507Y W.O. No. 19344		


 MODERN AERO, INC.  
 14801 PIONEER TRAIL  
 EDEN PRAIRIE, MN 55347  
 952-941-2555

N388JP

DATE: 11/4/04

 HOBBS: 95.9  
 ENGT: 95.9

COMPLETED ANNUAL INSPECTION ON THIS DATE. DRAINED OIL. REMOVED OIL SCREEN. CUT OPEN OIL FILTER. NO FAULTS FOUND. INSTALLED NEW CH 48110-1 OIL FILTER. SERVICED WITH 8QTS EXXON ELITE 20W50 OIL. COMPRESSION RECORD: 1) 78/80 2) 77/80 3) 77/80 4) 77/80. COMPLIED WITH AD 2002-26-01 ( FUEL INJECTOR LINES) NO DEFECTS NOTED. AD DUE AGAIN AT NEXT ANNUAL, 100 HR. INSPECTION OR FUEL LINE MAINTENANCE RUN-UP OPERATIONAL AND LEAK CHECK OK. MODERN AERO W/O# 32969. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

KEN R FISCHBACH A&amp;P/IA 504925029

Ken R Fischbach

CARRIED FORWARD

TOTAL THIS PAGE


TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

**ENGINE SERVICE AND**

**MAINTENANCE RECORD**

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTES: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE TRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
	HRS.	MIN.	HRS.	MIN.	
10 FEB 2007	1913				
Channel Islands Aviation 305 Durley Avenue Camarillo, CA 93010 FAA Repair Station DDER146D					
Reg # N388JP Model Lycoming IO-360-M1A Ser # L-31478-51A Date 01-08-2005 Hobbs 170.7 T.T. 170.7 Performed 200 Hour Inspection in accordance with Diamond DA40 maintenance checklist. Compression test. #1) 76/80, #2) 77/80, #3) 76/80, #4) 76/80. Serviced with 8 qts Phillips 20W/50 oil and new filter p/nCH48110. Cut open and inspected used oil filter and suction screen, found no defects. Ops check OK, no leaks. Replaced #4 cylinder bottom spark plug p/nREM38E. Replaced #2 cylinder exhaust riser p/nDA40-3 s/nS1050057 and gaskets p/n75118. All pertinent data on file under WO 12653. I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.					
<div style="text-align: center;"> <b>F.A.A. REPAIR STATION #DDER146D</b>                      Authorized Inspector                        Richard Skopen A&amp;P721861                 </div>					

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TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

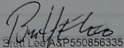
REPLACED ALL 4 EXHAUST RISERS WITH  
 NEW - (2) P/N DC0001-2A , (1) P/N DC0001-3A,  
 (1) P/N DC0001-5A.  
 REPLACED MUFFLER ASSEMBLY WITH NEW -  
 P/N DC0001-1  
 REPLACED EXHAUST CLAMPS P/N DC0001-005 (B)  
 NEW FLANGE GASKETS INSTALLED  
 CARRIED FORWARD

REPAIRS, ADJUSTMENTS, MODIFICATIONS	SIGNATURE	LICENCE NUMBER
-10 FEB, 2005 (CONT) - EXHAUST GASKETS INSTALLED 1/1/0 LYCOMING SI 1207B - REPLACED ALTERNATE AIR VALVE P/N DH-7166-20-30 AND P/N NH-7166-20-33 - INSTALLED NEW SEALS P/N AS-568-042 IN ALT AIR VALVE. - REPLACED ALTERNATE AIR CONTROL GASKET P/N DA14076-00-04. ALL WORK ACCOMPLISHED 1/1/0 DIAMOND STAR MAINTENANCE MANUAL AND LYCOMING MAINT MANUAL		55508804 DIAMOND AIRCRAFT LTD.

Channel Islands Aviation  
 305 Durley Avenue  
 Camarillo, CA 93010  
 FAA Repair Station DDER146D

Reg # N388JP Model Lycoming IO-360-M1A Ser # L-  
 Date 04-14-2005 Hobbs 221.6 T.T. 221.6

Drained oil and removed filter. Serviced with 9 qts Aeroshell 15W50 oil and new filter p/nCH48110. Cut open used filter, no defects at this time. Ops and leak check good. Replaced all four exhaust gaskets p/n77811 and lock washers in accordance with Lycoming OHM.  
 All pertinent data on file under WO 12851.  
 I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.

  
 A&P55085635

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS AND NOTES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENSE NUMBER
	HRS.	MIN.	HRS.	MIN.				
BROUGHT FORWARD →								

WO# 060705  
11904  
TACHI 260.0

EL AERO SERVICES  
CRS# AQHD225C  
FAA APPROVED REPAIR STATION  
ENGINE

AIRCRAFT N388JP  
SN 40-388  
ACTT 260.0

- 1 INSTALLED NEW #1 CYLINDER EXHAUST RISER
- 2 INSTALLED NEW #2 CYLINDER EXHAUST RISER
- 3 INSTALLED NEW #4 CYLINDER EXHAUST RISER
- 4 OPERATION AND LEAK CHECKED OK
- 5
- 6
- 7
- 8
- 9

I certify that this Aircraft Component has been inspected in accordance with current FAA regulations and procedures and was determined to be in airworthy condition.

The aircraft and/or component identified above was repaired and inspected IAW FAA regulations and is approved for return to service. Pertinent details are on file at this agency under WO#11904

Signed: *Chuck Mills*  
Chuck Mills Chief Inspector CRS AQHD225C

ENGINE MODEL:  **Kim Davidson Aviation, Inc.**  
 ENGINE S/N: I-360318A  
 REG. NO. 388JP  
 WORK ORDER: 00651  
 Repair Station No. YYKR67L  
 2701 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Mark 310-391-6200) (Aircraft 310-391-0962)

DATE: 06/07/05  
ACTT: 260.0  
ENG TT: 359.9  
HOURS: 259.9

## Engine Entries

I certify that this engine has been inspected in accordance with with an ANNUAL inspection IAW FAR Part 43 Appendix 'D' and has been determined to be in AIRWORTHY CONDITION. & Removed and replaced oil with 5qts of 100W Plus. Removed oil filter, cut and inspected for metal, and replaced with new. No metal found at this time. Run up and no leaks noted. & Perform engine compression check 1) 75/90, 2) 75/90, 3) 74/90, 4) 76/90. & Serviced Fuel Injectors IAW Diamond Maintenance Practice Checklist, 400 Hr. Item.

## Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this Certified Repair Station: CRS# YYKR67L

DATE: 1/29/2006 SIGNED: *Kim Davidson* Work Order: 00951  
 Kim Davidson  
 Certified Repair Station No. YYKR67L Printed by EBis 3 (datamedia.com)

ENGINE MODEL:  **Kim Davidson Aviation, Inc.**  
 ENGINE S/N: I-360318A  
 REG. NO. 388JP  
 WORK ORDER: 01441  
 Repair Station No. YYKR67L  
 2701 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Mark 310-391-6200) (Aircraft 310-391-0962)

DATE: 9/16/2005  
ACTT: 406.7  
ENG TT: 426.7  
HOURS: 426.7

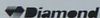
## Engine Entries

Removed Skytec Starter P/N: 31B22105, S/N: F4L-620417 & installed manufactured S/N: F4L-120615

## Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this Certified Repair Station: DA# YYKR67L

DATE: 9/19/2006 SIGNED: *Kim Davidson* Work Order: 01441  
 Kim Davidson  
 Certified Repair Station No. YYKR67L Printed by EBis 3 (datamedia.com)



Date: 16 September, 2005, S/N: 40 388 Reg. N388JP  
 WO RD-05-167 Engine S/N: I-31478-51A ENG-TSN: 304 4 HRS

50 HR Inspection carried out IAW Diamond Aircraft DA 40 current Maintenance Manual Chapter 05-20-000.  
 Engine oil and oil filter change carried out.  
 Engine serviced with 7L Aeroshell 15W50 oil.  
 Exhaust System Risers replaced with new improved riser assemblies.  
 Lycoming MSB 548A Fuel Pump Replacement - N/A by Date of Manufacture of the LW-15473 fuel pump.  
 Also Lycoming 5B 565 checked and found N/A due to the Date of Manufacture of the Fuel Pump.  
 Ground Runup of Engine and Fluid Leak Check carried out. Found to be Satisfactory.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

**DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #16133**

Signature: *Chuck Mills* Lic or Stamp: 

I HAVE CARRIED OUT AN INDEPENDENT CHECK OF THE ENGINE CONTROLS AFFECTED BY THE WORK ACCOMPLISHED.

Signature: *Chuck Mills* Lic or Stamp: 

*SEPT 16/2005 ENG TSN: 304 4*

*304 4*

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE TRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.			
BROUGHT FORWARD	→						

ENGINE MODEL: O-360-M1A  
 ENGINE S/N: L-31478-S1A  
 REG. NO. 388JP  
 WORK ORDER: 10868

Kim Davidson Aviation, Inc.

Repair Station No. YYKR878L  
 2751 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Marit 310-391-6293) (Aircraft 310-391-0962)

DATE: 2/12/2007  
 AIC 126: 4778  
 ENG TT: 4778  
 HOBBS: 4778

#### Engine Entries

I certify that this engine has been inspected in accordance with with an Annual inspection I.A.W. Diamond Maintenance Checklist and has been determined to be in AIRWORTHY CONDITION. &. Removed and replaced oil with 8 qts of 100W Plus. Removed of filter, cut and inspected for metal, and replaced with new. No metal found at this time. Run up and no leaks noted. &. Perform engine compression check 1) 7280-2) 7480-3) 7680-4) 7580

#### Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this Certified Repair Station CRSA YYKR878L

DATE: 2/12/2007

SIGNED:

Kim Davidson  
 Certified Repair Station No. YYKR878L

Work Order: 10086

Printed by EBia 3 (datamedia.com)

1

ENGINE MODEL: O-360-M1A  
 ENGINE S/N: L-31478-S1A  
 REG. NO. 388JP  
 WORK ORDER: 10551

Kim Davidson Aviation, Inc.

Repair Station No. YYKR878L  
 2751 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Marit 310-391-6293) (Aircraft 310-391-0962)

DATE: 8/28/2007  
 AIC 126: 4778  
 HOBBS: 4778

#### Engine Entries

Removed and replaced oil with 8 qts of 15w50. Removed oil filter, cut and inspected for metal, and replaced with new. No metal found at this time. Run up and no leaks noted. Oil Analysis taken.

#### Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this Certified Repair Station CRSA YYKR878L

DATE: 8/28/2007

SIGNED:

Kim Davidson  
 Certified Repair Station No. YYKR878L

Work Order: 10551

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CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

#### REPAIRS, ADJUSTMENTS, MODIFICATIONS

TRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

ENGINE MODEL: O-360-M1A  
 ENGINE S/N: L-31478-S1A  
 REG. NO. 388JP  
 WORK ORDER: 1188

Kim Davidson Aviation, Inc.

Repair Station No. YYKR878L  
 2751 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Marit 310-391-6293) (Aircraft 310-391-0962)

DATE: 3/29/2008  
 AIC 126: 5073  
 ENG TT: 5073  
 HOBBS: 5073

#### Engine Entries

I certify that this engine has been inspected in accordance with with an Annual inspection I.A.W. FAR Part 43 Appendix D and has been determined to be in AIRWORTHY CONDITION. &. Removed and replaced oil with 8qts of Aeroshell 15W50. Removed oil filter, cut and inspected for metal, and replaced with new. No metal found at this time. Run up and no leaks noted. &. Perform engine compression check 1) 7280-2) 7480-3) 7680-4) 7480- &. Installed new fine wire spark plugs &. CW AD 2002-26-01 IAW Textron Lycoming MSB No. 342D (100hr) Fuel Line & Clamp Inspection.

#### Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this Certified Repair Station CRSA YYKR878L

DATE: 3/29/2008

SIGNED:

Kim Davidson  
 Certified Repair Station No. YYKR878L

Work Order: 1188

Printed by EBia 3 (datamedia.com)

ENGINE MODEL: O-360-M1A  
 ENGINE S/N: L-31478-S1A  
 REG. NO. 388JP  
 WORK ORDER: 12302

Kim Davidson Aviation, Inc.

Repair Station No. YYKR878L  
 2751 Airport Avenue  
 Santa Monica, CA 90405  
 Phone: (Marit 310-391-6293) (Aircraft 310-391-0962)

DATE: 19 December, 2008  
 AIC 126: 5053  
 ENG TT: 5053  
 HOBBS: 5053

#### Engine Entries

I certify that this engine has been inspected in accordance with with an Annual inspection I.A.W. FAR Part 43 Appendix D and has been determined to be in AIRWORTHY CONDITION. &. Removed and replaced oil with 8qts of 100W Plus. Removed oil filter, cut and inspected for metal, and replaced with new. No metal found at this time. Run up and no leaks noted. &. Perform engine compression check 1) 7480-2) 7680-3) 7680-4) RSR #3 Cyl EGT Probe with new.

#### Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Administration and is APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under Work Order No. 12302. Dated 19 December, 2008.

DATE: 19 December, 2008

SIGNED:

Kim Davidson  
 Certified Repair Station No. YYKR878L

Work Order: 12302

Printed by EBia 3 (datamedia.com)

1-22-2009 N-388JP Diamond DA-40 S/N# 40 388 Lycoming  
 IO-360-M1A S/N# L-31478-S1A **Tach# 05773** TTSN# 0577.3 Hobbs#  
 0634.4

Maintenance performed per DA-40 Maintenance Manual. Changed oil and filter using 8qts of Aeroshell 15W50 and CH48110-T filter. Opened filter and checked for metal, none found. Cleaned engine, ran and checked for leaks and OP's. All satisfactory this date. I certify this engine has been repaired or inspected in accordance with approved main/maintenance manuals and found to be in airworthy condition and is returned to service with respect to work performed this date.

Gregory J. Evans, Jr.  
 A&P 3023363

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORWARD

4-24-2009 N-388JP DIAMOND DA-40 SER. 40.388 Lycoming IO-360-M1A S/N# L-31478-51A Tach# 0621.5 TTAF#0621.5 Hobbs#0690.0

Performed 50HR inspection in accordance with DA-40 series AMM maintenance checklist for Lycoming engine. Drained oil and removed filter. Opened filter and checked for metal, none found. Serviced engine with 8qts of Aeroshell 15W-50 and CH48110-1 filter. Tightened all drain back tubes. Cleaned fuel injector inlet filter, checked fuel flow divider and all engine baffles. Inspected alternator mounting brackets, belt tension and all electrical connectors. Inspected alternate air valve assembly and inlet filter. Checked right and left side magneto timing, and inspected ignition harness and cables. Checked inlet manifolds and rocker box covers for leaks. I certify this airframe has been inspected in accordance with a 50 hour inspection and found to be in airworthy condition and is approved for return to service with respect to work performed this date.

Gregory J. Evans, Jr.  
A&P 3023363

8-28-2009 N-388JP DIAMOND DA-40 SER. 40.388 Lycoming IO-360-M1A S/N# L-31478-51A Tach# 0664.2 TTAF#0664.2 Hobbs#0740.4

Drained oil and removed filter. Opened filter and checked for metal, none found. Serviced engine with 7qts of Aeroshell 15W-50 and CH48110-1 filter. I certify this engine has been inspected and repaired in accordance with approved maintenance manuals and was found to be in airworthy condition and is approved for return to service with respect to work performed this date.

Gregory J. Evans, Jr.  
A&P 3023363

CARRIED FORWARD

February 02, 2010

QualTech Aviation, Inc.  
Registration: N385JP - Make: Diamond - Model: DA-40 - S/N: 40.388  
Engine: Lycoming IO-360-M1A - Engine S/N: L-31478-51A  
Tach: 689.0 - Airframe TT: 689.0 - Engine TT: 689.0  
100 Hour Inspection

Ground run engine to normal operating temperatures and performed compression check as per Lycoming SI 1191A. Cylinder compression readings were as follows: #1-73/80, #2-72/80, #3-70/80, #4-72/80. Drained oil and collected sample for oil analysis. Removed oil filter and suction screen. Complied with Lycoming SB 480E, by inspection of oil filter and suction screen. No defects found. Serviced engine with 8 quarts Aeroshell 15W50 oil and Tempest oil filter, pin AA48110-2. Replaced muffler brace pin D41-7806-20-01. Complied with Diamond A&P 40-033, dated 02/15/2009, by inspection of exhaust system. Pressure tested exhaust. No defects found. Cleaned and gapped spark plugs. Rotated and reinstalled spark plugs using new gaskets. Replaced all valve cover gaskets. Cleaned fuel injector nozzles using ultrasonic cleaner. Reinstalled injectors and leak checked fittings. Replaced fuel flow transducer pin 680501-1-29.8-WIP. Degreased engine and lubricated engine controls and starter. Ground run up and leak check was normal.

Complied with AD 2008-14-07, dated August 14, 2008, by inspection of fuel injection lines and clamps as per Lycoming MSB No. 342E, dated May 18, 2004. No defects found. Compliance is due at each 100 hour inspection, at each engine overhaul, or after any maintenance is performed on the fuel lines. Next due at airframe total time 789.0.

AD 2009-02-03, dated February 09, 2009, does not apply. Fuel servo plug gasket was not replaced on or after August 22, 2006. No further action required.

AD 2009-26-12, dated February 4, 2010, does not apply because no ECI cylinders are installed on this engine. No further action required.

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

Chal Bonds

Charles Bonds A&P 3025225

7-23-2010 N-388JP DIAMOND DA-40 SER. 40.388  
Lycoming IO-360-M1A S/N# L-31478-51A  
Tach# 715.3 TTAF# 715.3 Hobbs# 804.0

Drained oil and removed filter. Opened filter and checked for contaminants, none noted. Serviced engine with 8qts of Aeroshell 15W-50 and CH48110-1 filter. Removed left magneto from engine. Installed new magneto flange gasket and reinstalled magneto. Checked left and right magneto timing to engine. Performed run up, op's check and for leaks, all satisfactory. I certify this engine has been inspected and repaired in accordance with FAA regulations and approved maintenance manuals. This engine is approved for return to service with respect to work performed this date.

Gregory J Evans JR  
A&P/IA# 3023363

10/30/10 - TACH 757.1 Hrs - Replace 1) Engine Oil + Filter with  
Champion CH48110-1 + 7Qts 15W50 Aeroshell + 1/2 Pint  
Cam Guard.  
Cory Eschenroder PP/Owner

TOTAL THIS PAGE

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MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



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	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORWARD

2/24/2011 Hobbs: 866.9 c/w w/ 2008-14-07  
 Fuel injector lines, by inspection. Re set right magnets to engine timing. Installed washers and resin over crack in upper forward engine baffles. Cleaned out service induction air filter. Ripped induction carburetor air valve to full close in off position. Tightened throttle control rod end ball. Re set fuel oil quick drain valve. Replaced all cylinders intake tubes gaskets and seals. Tied cylinders #2 and 4 EGT wires. Tightened left engine mount to firewall bolt. Reinstalled intake manifold drain tube clamp, isolator and secured in place. Installed missing rivet in engine date plate. Washed engine. Performed 100 Hour inspection in accordance with Diamond inspection report.

I certify this Aircraft / Engine has been inspected in accordance with an 100 HR / annual inspection and has been determined to be in airworthy / unairworthy condition.  
**WES WRIGHT A&P / IA 2994045**  
 WES WRIGHT Date 2/24/2011  
 o/c T.T. 866.9

ENGINE TOTAL TIME: 768.1

3/3/2011 Hobbs: 902.9 Changed oil and filter. Cut open removed filter for inspection - checked good. Serviced w/ 7 qts. AeroShell 15 w/so. Grnd. run ch. ck. Wes Wright AIP 2994045

3/7/2012 Hobbs: 957.6 c/w w/ 2011-26-04 Fuel injector lines, by inspection. Changed oil and filter. Cut open removed filter for inspection - checked good. Serviced w/ 7 qts. AeroShell 15 w/so. Grnd. run ch. ck. Performed 100 Hour

CARRIED FORWARD

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

REPAIRS, ADJUSTMENTS, MODIFICATIONS		SIGNATURE	LICENCE NUMBER
ENTRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.			
inspection in accordance with Diamond inspection report.		I certify this Aircraft / Engine has been inspected in accordance with an 100 HR / annual inspection and has been determined to be in airworthy / unairworthy condition. <b>WES WRIGHT A&amp;P / IA 2994045</b> WES WRIGHT Date 3/7/2012 o/c T.T. 957.6	
COMPRESSION CHECK			
TT 957.6	Date 3/7/2012		
#1 76/80	#4 75/80		
#2 77/80	#5		
#3 75/80	#6		
ENGINE TOTAL TIME: 845.5			

Galaxy FBO

1013 Military Dr.  
Conroe, TX 77303  
936-494-4252Engine Entry Annual  
Hobbs/Tach Time: 875  
935Registration: N388JP  
Model No: 10-360-M1A  
Serial No: L-31478-51A

- Cleaned, gapped, and tested spark plugs
- Compressions: #1 74/80, #2 74/80, #3 78/80, #4 78/80
- Drained oil, removed filter, cut open, inspected, no abnormal particles noted.
- Installed new CH48110-1 oil filter.
- Serviced with 8 qts Shell 15W-50
- Performed a 100hr/Annual inspection per DA-40 MM inspection guide.

I certify that this Engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition at this time. The above maintenance and/or inspections was performed as per the DA-40 maintenance manual, current regulations and approved data and is approved for return to service in respect to the maintenance and/or inspections performed above.

The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disassembled systems were retested and functionally tested in accordance with the manufacturer's instructions.

Date:  
Mar 4, 2013

Authorized Signature:

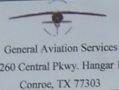
Wes Wright

Ryan Gengerke  
A&P/IA 3538675

END Page

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, REPAIRS, ADJUSTMENTS, MODIFICATIONS. NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.			



General Aviation Services  
5260 Central Pkwy, Hangar 14  
Conroe, TX 77303

**Engine Annual Logbook Entry**  
Make: Lycoming Model: IO-360-M1A  
Serial: L-31478-51A  
Tach# 913.4 Hobbs# 1040.0  
ACTT# 913.4

Registration: N388JP  
Make: Diamond  
Model: DA-40  
Serial: 40.388

- Completed a 100HR inspection in accordance with FAR 43, Appendix D and approved Maint/Manual.
1. Performed compression check: 1-76/80, 2-78/80, 3-76/80, 4-74/80
  2. Took oil sample this date and sent out to Blackstone Laboratories.
  3. Drained oil, removed filter and sump screen. Opened filter and checked for contaminants, none found.
  4. Serviced engine with 8 quarts of Aeroshell 15W50 and CH48110-1 filter and reinstalled sump screen.
  5. Cleaned, gapped, tested, and rotated all spark plugs, replaced two spark plugs with REM38S on top cylinders #1 and #3, reinstalled plugs with all new M674 copper sparkplug washers.
  6. C/W AD# 2011-26-04 Effective date m1-25-2012, C/W inspection of fuel lines and hardware IAW MSB342F, next due at ACTT# 1013.4.
  7. Removed all rocker box covers, cleaned and reinstalled rocker box covers with all new rocker box cover gaskets P/BN# 08-12021.
  8. Washed engine and performed run up, op's check and for leaks, all satisfactory.
  9. No new/outstanding Ads this date per Navigator V ATP Compliance program, latest revision 5-30-14.
- I certify that this Engine has been inspected in accordance with a 100HR inspection and was found to be in an airworthy condition. This Engine is approved for return to service with respect to work performed this date.

-END

Authorized Signature:

Gregory J. Evans JR  
A&P 3023363 IA

Date: 06-13-2014

6/3/2015 Hobbs: 1066.5 #1 was 2011-26-04 Fuel injector lines, by inspection. Replaced both magnetos bore gaskets, Replaced rocker box drain back tubes hoses and six clamps. Replaced dipstick tube gasket, tested right magneto spark plug. Swapped right and left magneto spark plugs for troubleshooting purposes. Secured loose engine compartment components drain hoses. Changed oil and filter. Obtained oil sample. Cut open removed filter for inspection - checked good. Serviced with 7 qts. Aeroshell 15W50. Grnd run ok. Performed 100 hour inspection in accordance with Diamond inspection report.

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, REPAIRS, ADJUSTMENTS, MODIFICATIONS. NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.			

## OO: COMPRESSION CHECK

TT 1066.5 Date 6/3/2015  
#1 76/80 #4 74/80  
#2 74/80 #5  
#3 74/80 #6

I certify this Aircraft / Engine has been inspected in accordance with an 100 HR / annual inspection and has been determined to be in airworthy / unairworthy condition. WES WRIGHT A&P / IA 2994045

Wes Wright Date 6/3/2015

9/3/15 Eng. Tach Time: 1935.2 a/c.T.T. 1066.5

8/30/2016 Hobbs: 1120.1 Increased alternator belt tension. Changed oil and filter. Cut open removed filter for inspection - checked good. Serviced with 7 qts. Aeroshell 15w50. Grnd. run ok ok.

Wes Wright  
A&P2994045  
Eng. Tach 977.5 hrs.  
Wes Wright

9/2/16 DRAINED Engine oil + REPLACED w/ 7QT  
15-50 W AEROSHELL, Eng Tach 978.4 hrs.

Wes Wright  
A&P 3023363 IA

3/9/2017 Hobbs: 1171 C/W AD 2015-10-07 Fuel injector lines, by inspection. Tightened top cowling upper mount bolts. Greased cowling air inlet seal in place. Tightened and safetied oil temperature probe assembly. Tightened engine breather tube attachment on firewall. Increased alternator belt tension. Swapped cylinders #1 and 3 EGT probes. Replaced starter with new unit. Removed and reinstalled both magnetos for 500 hour inspection and service. Replaced cylinder #2 exhaust stack. Performed 100 hour inspection in accordance with Diamond inspection report.

## OO: COMPRESSION CHECK

TT 1171 Date 3/9/2017  
#1 78/80 #4 78/80  
#2 74/80 #5  
#3 77/80 #6

I certify this Aircraft / Engine has been inspected in accordance with an 100 HR / annual inspection and has been determined to be in airworthy / unairworthy condition. WES WRIGHT A&P / IA 2994045

Wes Wright Date 3/9/2017

HOURS. a/c.T.T. 1171.

Eng. Tach 1022.4

DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE TRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
	HRS.	MIN.	HRS.	MIN.			
BROUGHT FORWARD	→						
					3/30/17 DRAINED AND REFINISHED OIL AND FILTER. ENG 1,022.4 HRS / HOBBS 1171.0 Amy Kaula - OWNER		
					12/2/17 DRAINED AND REFINISHED OIL ONLY. ENG 1,044.1 HRS / HOBBS 1,195.0 Amy Kaula - OWNER		
					5/1/2018 Hobbs: 1221.7 c/w AD 2015-19-07 Fuel injector lines, by inspection. Cleaned injection air filter, changed oil and filter. Cut open removed filter for inspection - checked good. Cleaned oil suction screen. Serviced with 7 qts. Aeroshell 15W50, Grad run de-ob. Performed 100 hour inspection as per Diamond inspection report.		
					I certify this Aircraft / Engine has been inspected in accordance with an 100 HR / annual inspection and has been determined to be in airworthy / unairworthy condition. WES WRIGHT A&P / IA 2994045 Wes Wright Date 5/1/2018 a/C.T. 1221.7 1067.5 Tich		
					CARRIED FORWARD		
TOTAL THIS PAGE							
TOTAL FROM PREVIOUS SUMMARY							
TOTAL SINCE MFG.							

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

4/18/04

652 Oliver Street

Williamsport, PA 17701 U.S.A.

Engine Model No: **IO-360-M1A**Engine SN: **L-31478-51A**

Page 1 of 2

AD NO. / SB	RV RV	Description / Method of Compliance	Next Due	Once	Rec	Code	Sign
2002-12-07 543	B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT NEW P/N CONVERTER PLATE INSTALLED	N/A		X		2
2002-26-01 342	D	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL. NEW LINES INST. WITH NEW CLAMP	100 HOURS			X	1 <b>155</b>
2003-14-03 529	B	ROTARY FUEL PUMP TORQUE. NEW PUMP WITH "M" SUFFIX INSTALLED	N/A			X	2
64-16-05 298		AC FUEL PUMP OIL SEAL NEW CONF. FUEL PUMP INSTALLED	N/A		X		2
66-06-03 302	A	REPLACEMENT OF CONNECTING ROD ASSY. NEW ROD CONFIGURATION	N/A		X		2
66-20-04 307		OIL FILTER ADAPTER GASKET NEW CONF. GASKET INSTALLED	N/A		X		2
67-22-06 305	4 B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY NEW OR NEWLY O/H INSTALLED	N/A		X		2
71-05-02 327	C	INSPECTION OF CENTER MAIN BEARING NEW INSTALLED	N/A		X		2
71-11-02 328		REPLACEMENT OF EXH & INT HYD TAPPET PLUNGERS NEW P/N HYD TAPPETS INSTALLED	N/A		X		2
73-23-01 367	F	INSP FOR CRACKS IN PISTON PINS INST NEW PARTS	N/A		X		2
75-09-15 382		BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS NEW P/N GASKET INSTALLED	N/A		X		1 <b>155</b>
78-23-10 428		BENDIX FUEL INJ. BULLETIN RS-42 NEW P/N INSTALLED	N/A		X		2
79-04-05 433	A	BENDIX FUEL INJ. BULLETIN RS-57 NEW P/N INSTALLED	N/A		X		2
87-10-06 477	R1 A	INSPECTION AND REWORK OF LW-18790 ROCKER ARM ASSY NEW CONFIGURATION P/N INST.	N/A		X		2
90-04-06 488	R1 A	PROPELLER GOVERNOR LINE SUPPORT NEW LINE W/STEEL CON. NUTS INS	N/A		X		2
91-14-22 475	C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES NEW P/N INSTALLED	N/A		X		1 <b>155</b>
92-12-05 501	B	LW-14077 PISTON PIN NEW PARTS INSTALLED	N/A		X		2
93-11-11 N/A		AC, TEXTRON LYC FUEL PUMP O/H BY AERO ACCESSORIES NEW AC F/P INST. WHEN APPLIC.	N/A		X		1 <b>155</b>
93-14-15 N/A		INST OF PLCKRD DENOTING OPER. NOT TO EXCEED 33.#HG FIELD COMPLIANCE AFTER STC	N/A		X		2
94-01-03 N/A	R2	DEFECTIVE IGN COILS AND ROTATING MAGNETS NEW CONFIGURATION PART INST.	N/A		X		1 <b>155</b>

## Codes:

- 1 AD Applicable to Engine
- 2 AD Not Applicable to Engine
- 3 Field Compliance where applicable



A/D, S/B, S/I, MODS



Date: 21 July, 2004 S/N: 40.388 Reg: N388JP  
Engine S/N: L-31478-51A Eng TTSN: 6.2 HRS

The following S/B and S/I have been carried out as applicable:

DAI SI 40-002 / Lycoming Mandatory S/B 548 – Engine Driven Fuel Pump replacement – N/A by S/N

DAI SI 40-003 – Vision Microsystem VM1000. Capacitor check – N/A

DAI SI 40-005/Lycoming SB 342D/AWD 93-02-05 Fuel Line(stainless steel tube assy.) and support clamp Inspection and Installation New – Due every 100 hours.

DAI SI 40-006 – Exhaust System Inspection of Flanges New – Due every 50 hours – N/A if MSB 40-07 C/W.

SI 40-009(FAA AD 2002-26-01) – Externally mounted fuel injection lines – C/W

DAI SI 40-010- Repair of certain injection servos – N/A due to S/N of unit.

MSB 40-07 Exhaust Flange Connection Tube Riser Immediate if cracks detected, no later than DEC 31 2002 – C/W.

MSB 40-009 Improvement of ground-connection to Alternator – PCW During mfg.

MSB 40-012 Replacement of Mixture Control Cable N/A as already Incorp. During mfg.

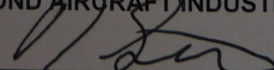
RSB 40-011 Starter relay replaced with latest revision – C/W.

Precision Airmotive Fuel Servo SB PRS-105 – N/A due to S/N of unit.

Textron Lycoming AD 2002-12-07-Prevent Complete loss of engine oil-N/A due to M/N  
Bi-weekly AWD check carried out to current revision 2004-15 .

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161.93

Signature 

Lic or Stamp





Date: 21 July, 2004 S/N: 40.388 Reg: N388JP  
Engine S/N: L-31478-51A Eng TTSN: 6.2 HRS

*The following S/B and S/I have been carried out as applicable:*

DAI SI 40-002 / Lycoming Mandatory S/B 548 – Engine Driven Fuel Pump replacement – N/A by S/N

DAI SI 40-003 – Vision Microsystem VM1000. Capacitor check – N/A

DAI SI 40-005/Lycoming SB 342D/AWD 93-02-05 Fuel Line(stainless steel tube assy.) and support clamp Inspection and Installation New – Due every 100 hours.

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Textron Lycoming AD 2002-12-07-Prevent Complete loss of engine oil-N/A due to M/N

**Bi-weekly AWD check carried out to current revision 2004-15 .**

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

**DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161-93**

Signature

Lic or Stamp

