

ENGINE S/N L-32958-51A

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

NEW RECIPROCATING ENGINE CERTIFICATE

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

MODEL IO-360-M1A SERIAL NO. L-32958-51A
DATE 7-14-06 
(AUTHORIZED REPRESENTATIVE)

LYCOMING
A Textron Company

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

ENGINE SERVICE AND

E1


DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
	BROUGHT FORWARD →		0	0	ENGINE INSTALLED NEW ON DA 40 S/N 40.701
					Engine installation inspected I.A.W. Diamond Aircraft Industries Inc. DA 40 W.I.S. Rev: 1 Form ME-01-A
					Engine service with 8 qts. Of Phillips 20W50 Type "M" engine oil.
					Engine break-in I.A.W. Lycoming Service Instruction 1427B, FLIGHT TEST COMPLETED
SEPT 29 2006			4.	0	HOURS BROUGHT FORWARD

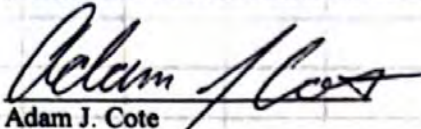
A & M Maintenance Services, Inc. - 1C5
 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA-40XL
 "N" #: N 171PS
 DATE: 12/29/2006

TACH TIME: 50.7 Hrs.
 ENGINE TT: 50.7 Hrs.

At this time the engine oil was drained and the filter was removed, opened, and inspected for contamination - none noted at this time. The engine was serviced with 8qts of Phillips 20w50 Mineral oil and one Champion CH48108-1 oil filter. The engine was washed and run. No defects were noted.

-----END-----


 Adam J. Cote
 AP 3035886

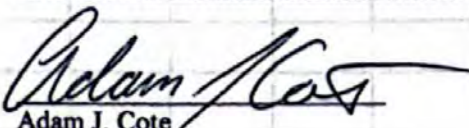
A & M Maintenance Services, Inc. - 1C5
 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA-40XL
 "N" #: N 171PS
 DATE: 06/08/2007

TACH TIME: 131.4 Hrs.
 ENGINE TT: 131.4 Hrs.

At this time the engine oil was drained and the filter was removed, opened, and inspected for contamination - none noted at this time. The engine was serviced with 8qts of Aeroshell 15w50 oil and one Kelly Aerospace ES48110 oil filter. The engine was washed and run. No defects were noted.

-----END-----


 Adam J. Cote
 AP 3035886

TOTAL

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

ES
3

ENGINE SERVICE AND

A & M Maintenance Services, Inc. - IC5
Clow International Airport, Bolingbrook, IL.

S.
HOURS REQUIRED FOR COMPLETION

TYPE: DIAMOND DA-40
"N" #: N 171PS
DATE: 10/19/2007

TACH TIME: 237.6 Hrs.
ENGINE TT: 237.6 Hrs.

At this time, the engine was inspected in accordance with a 100HOUR/ANNUAL INSPECTION per Diamond and Textron Lycoming Service Manuals. A compression test was performed with the following results: #1 79/80, #2 79/80, #3 79/80, and #4 79/80. The oil and filter was changed using 8 quarts of 15W50 Aeroshell oil and one Kelly Aerospace filter P/N: ES48110-1. The old filter was cut open and inspected - no contamination noted at this time. The oil suction screen was removed, cleaned, and reinstalled with a new gasket. The crankshaft seal was replaced P/N: LW13792. The spark plugs were removed, cleaned, gapped, tested, rotated, and reinstalled. The ignition leads were cleaned and tested. Cleaned and inspected fuel finger screen. The fuel injector nozzles were cleaned. The mag to engine timing was checked - no adjustment needed. Tightened intake bolts, rocker box covers, oil return lines, and exhaust nuts as required. The engine was washed and ran - no leaks noted at this time.

AD 2004-10-14, effective 6/25/2004, on crankshaft bolt, is due at prop strike as defined in paragraph (I) and (j) of this AD.

AD 2002-26-01, effective 1/31/2003, on fuel injector lines, was complied with by inspection per SB 342E, the next compliance is due at next 100 hour inspection, annual or whenever injector lines are loosened or removed. All AD's checked thru BI-weekly 2007-20. -----END-----

A & M Maintenance Services, Inc. - IC5
Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA-40
"N" #: N 171PS
DATE: 10/19/2007

TACH TIME: 237.6 Hrs.
ENGINE TT: 237.6 Hrs.

I certify this engine has been inspected in accordance with an ANNUAL INSPECTION and found to be in an airworthy condition.

M. Angarone
Marilina Angarone
AP 344688075 IA

Nov 27 2007 Tach 288.0 Drained oil, R/R & Inspected Filter, Serviced w/ 7 qts 15W50 Adjusted Idle, Ground Run OK

C. [Signature]
A139178714

CARRIED FORWARD


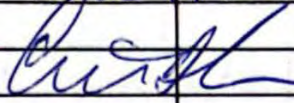

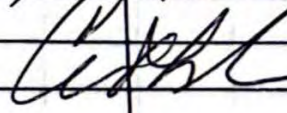
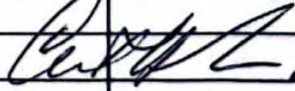
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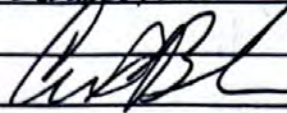
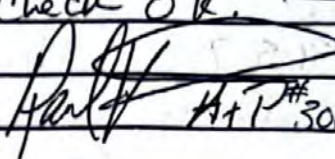
TOTAL SINCE MFG.

MAINTENANCE RECORD

E6
4/6

	REPAIRS, ADJUSTMENTS, MODIFICATIONS <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	SIGNATURE	LICENCE NUMBER
Dec 27, 07 TT 309.5 (N171PS)	C/W MSB-2007-001 by installation of Service kit SK07-9018 S/N 07-1544-16		AP391787114
Jan 21, 2008 TT 334.9	100 hr Inspection C/W TAW FAR 43 app D, C/W AD 02-26-01 by visual TAW MSB342e Next Due at 434.9 or if mx is performed, Oil Drained, R/R & Inspected filter, Serviced w/ 7qt 15W50, Comp A/F 76, 76, 74, 76 over 80. I certify that this Engine was inspected TAW a 100hr inspection and determined to be in an airworthy condition		Craig Bloomer AP391787114
Feb 22, 365.7	R/R engine driven fuel pump P/N LW15473, R/R Oil filter for access Ground Run + leaky check OK		AP391787114
Mar 11, 08 TT 384.9	Drained oil R/R & Inspected filter, Cleaned #1 Bot Plug, Serviced engine w/ 7qts 15W50, Ground Run OK		AP391787114
Mar 11, 08 TT 384.9	AD 02-06-51 D/N/A by component S/N as per PRS-107 dated 3/6/08.		AP391787114

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
April 18, 08 TT 436.1					Annual Inspection Completed IAW FAR 43 app D, AD's researched thru 08-08, clw AD 02-26 by Insp - Found OK Repeat 4/09 or MX, Drain oil, R/R & Inspected filter, Serviced w/ 7.5 qt's oil Comp: 78, 72, 76, 74 over 80, I certify that this engine was inspected IAW an Annual Inspection and determined to be in an Airworthy condition <div style="text-align: right;"> AP391787114</div>
May 15, 2008 TT 484.5					Drained oil, R/R & inspected filter, serviced engine w/ 7.5 qt's Aeroshell 15W-50 Ground run + leak check OK. <div style="text-align: right;"> Hank # 3062365</div>

Primeplanes Aircraft Services Inc.
240 Aviation Drive North Suite 102
Naples, Florida 34104 ph. 239-659-4005

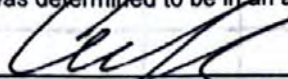


REG. **N171PS** TYPE **DA 40** TACH **532.8** AC TT **532.8**

100 hour inspection completed IAW FAR 43 app D, AD's researched thru 08-12, r/r pax door lock, original prop reinstalled following reseal by MT Propellor, r/r FR 08504 air filter, wheel bearings insp'd OK rudder swivels lubed,

I certify that this AIRCRAFT has been inspected IAW a 100 hr. inspection and was determined to be in an airworthy condition.

Signature


Craig Bloomer AP391787114

Date

23-Jun-2008

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

MAINTENANCE RECORD

E8


4

REPAIRS, ADJUSTMENTS, MODIFICATIONS

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

SIGNATURE LICENCE NUMBER

Primeplanes Aircraft Services Inc.
 240 Aviation Drive North Suite 102
 Naples, Florida 34104 ph. 239-659-4005



REG. N171PS TYPE IO-360-M1A TACH 629.1 ACTT 629.1
 C/W a 100 hr inspection IAW FAR 43 app D. Drained oil, R/R and inspected filter, serviced engine with 7qts Aeroshell 15W-50. Cleaned, gapped and tested all spark plugs. C/W AD 08-14-07 inspection of fuel injection lines. AD's researched thru 08-18. I certify that this engine has been inspected IAW a 100 hr inspection and determined to be in airworthy condition.

Signature *Paul Krystaszek* Date 9/11/2008
 Paul Krystaszek A&P 3062365

Primeplanes Aircraft Services Inc.
 240 Aviation Drive North Suite 102
 Naples, Florida 34104 ph. 239-659-4005



REG. N171PS TYPE IO-360-M1A TACH 678 ACTT 678
 Drained oil, R/R and inspected filter P/N CH48110-1. Serviced with 7 qts of Aeroshell 15W-50. Ground run and leak check OK.

Signature *Peter Brake* Date 10/24/2008
 Peter Brake A&P 3059360

*Nov 11 2008 R/R Starter P/N 149-24LS. FAL-420509 S/N TT 780 O/S check good. *P. Brake* A&P 3059360*

Primeplanes Aircraft Services Inc.
 240 Aviation Drive North Suite 102
 Naples, Florida 34104 ph. 239-659-4005



REG. N171PS TYPE IO-360-M1A TACH 727.7 ACTT 727.7
 C/W a 100 hr inspection IAW FAR43 app D. Comps all 78/80. Drained oil, R/R and inspected filter, serviced engine with 7qts Aeroshell 15W-50. R/R left magneto gasket p/n LW-12681, re-installed and re-timed. R/R All spark plugs with REM-40E. Ground run and leak check OK. C/W AD 08-14-07 by visual inspection of fuel injection lines. AD 08-19-05 D/N/A Titan cylinders not installed. AD's researched thru 08-22. I certify that this engine has been inspected IAW a 100 hr inspection and determined to be in airworthy condition.

Signature *Paul Krystaszek* Date 12/1/2008
 Paul Krystaszek A&P 3062365

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

E9

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
Dec 30, 2008 770.6 TT					Drained oil, R/R + inspected filter. Serviced with 7 qts Aeroshell 15W-50. Ground leak + Run up OK. D Brake A+P 305
Feb 26, 09 TSN: 827.7					C/W Annual Inspection PAW FAR 43 app D, C/W AD 08-14-07 PAW MSB 382 e fuel line & clamp OK Next due: 927.7, Drained oil, R/R & inspected filter, Comp: 74, 75, 76, 76 over 8 Ground Run OK, adjusted mixture A/R, I certify that this Engine has been inspected PAW on Annual and determined to be in an Airworthy condition C. J. [Signature] 1839128 7114 PA

Primeplanes Aircraft Services Inc.
240 Aviation Drive North Suite 102
Naples, Florida 34104 ph. 239-659-4005



REG. 171PS TYPE DA-40 TACH 877.7 ACTT

Drained oil, R&R& inspected filter, serviced oil system with 7 qts Aeroshell 15w-50.
Leak check - OK.

Signature

[Signature]
Paul Krystaszek A&P 3062365

Date

4/8/2009

CARRIED FORWARD


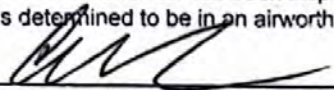
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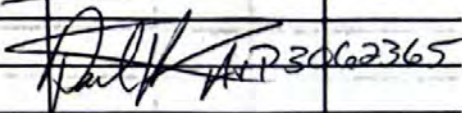
TOTAL SINCE MFG.

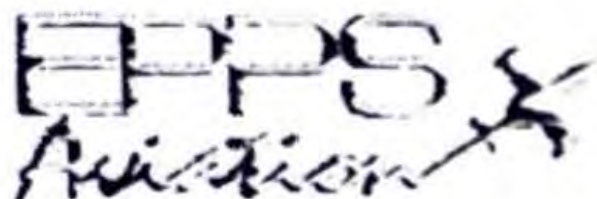
MAINTENANCE RECORD

Primeplanes Aircraft Services Inc. 240 Aviation Drive North Suite 102 Naples, Florida 34104 ph. 239-659-4005		
REG. N171PS	TYPE IO-360-M1A	TACH 927.7 ACTT 927.7
C/W a 100 hr inspection IAW FAR 43 app D. Comps: 78, 76, 76, 76/80. Drained oil, R/R and inspected filter, serviced engine with 7qts Aeroshell 15W-50. R/R #1 intake gasket. Removed Powerflow exhaust and inspected IAW Manufacturer instructions, re-assembled using high temp anti-sieze, and re-installed. C/W AD 08-14-07 inspection of fuel injection lines, check OK. AD's researched thru 09-14. I certify that this engine has been inspected IAW a 100 hr inspection and determined to be in airworthy condition.		
Signature 	Date 7/28/2009	
Paul Krystaszek A&P-3062365		

Primeplanes Aircraft Services Inc. 240 Aviation Drive North Suite 102 Naples, Florida 34104 ph. 239-659-4005		
REG. N171PS	TYPE IO 360 M1A	TACH 1028.1 TSN 1028.1
Annual inspection completed IAW FAR 43 app D. AD's researched tru 09-24, 08-14-07 c/w by inspection of fuel lines and clamps-next due 1127.7, drained oil, r/r and inspected filter, COMP: 72 75 74 76, serviced with 7 qts 15W50, exhaust inspected IAW Powerflow ICAW, repaired pin connector to #2 EGT probe, plugs cleaned and rotated, ground run OK, idle and mixture OK, AD 09-02-03 s/s 08-08-14 DNA by MFG date. I certify that this ENGINE has been inspected IAW an ANNUAL/100 hr. inspection and was determined to be in an airworthy condition.		
Signature 	Date 4-Dec-2009	
Craig Bloomer AP391787114IA		

2/3/2010 TT 1078.3 Drained oil, R/R and inspected filter, serviced engine with 7qts Aeroshell 15W-50. Ground run and leak check OK.

 A&P 3062365



AIRCRAFT REG: N171PS

DATE: 8/3/10

MFG: Lycoming

WORK PACKAGE: P2614

MOULD: IO-360-M1A

TACH TIME: 1161.6

SERIAL: I-32958-51A

ENG TOTAL TIME: 1161.6

HOUR METER: 1518.4

TSMOH: n/a

Drained engine oil and filter. Removed oil sump suction screen and inspected it and old oil filter for metal. Three small pieces of ferrous metal, smaller than 1/16 inch diameter, were found in oil sump suction screen. Appear to be cam or lifter tappet material. Fine ferrous "fuzz" found throughout old oil filter paper element. Sent pieces of metal to Lycoming for analysis. Lycoming tech agrees on origin of metal. Per Lycoming Service Instruction 1492D paragraph 8, a, installed new oil filter, reinstalled oil sump suction screen with new gasket, and serviced engine with Aeroshell 15W50 oil. Ground ran aircraft. Performance and leak checks were good. Engine approved for return to service per Lycoming Service Instruction 1492D. Recommend checking screen and filter again in 15 hours for metal contamination per paragraph 8.

The aircraft, airframe, engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations 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 package no

P2614

Signed:


Steven Morgar

SERVICEABLE

**CERTIFIED
ENGINES
UNLIMITED, INC.**

4000 N.W. 145 St. - Airport
Opa-Locka, Fla. 33054
Phone: (305) 685-8331
Fax (305) 681-8027

FAA Approved Repair Station No. KG4R309M

Part Name ENGINE

Part No. 10-360M1A 6-32858-51A

Invoice/Work Order# 53782/35058

Remarks 0' SINCE MAJOR OVERHAUL
& TEST RUN

Date 11/23/10 Inspector [Signature]

**This Document Is To Serve As Certification of
Major Overhaul and Block Test Run by
Certified Engines Unlimited, Inc.**

MFG. TEXTRON LYCOMING

MODEL 10-360M1A SERIAL # 6-32858-51A

TOTAL TIME 1195.2 HRS. AD. NOTES: CW SEE REAR OF LOG

PERTINENT DETAILS OF THE WORK PERFORMED ARE ON FILE AT THIS AGENCY UNDER

INV/WO # 53782/35058 DATE 11/23/10

[Signature] FOR CERTIFIED ENGINES UNLIMITED, INC.
SIGNATURE OF AUTHORIZED INDIVIDUAL

4000 N.W. 145th Street, Airport, Opa-Locka, Florida 33054
Phone: (305) 685-8331 Fax: (305) 681-8027

EASA 145 APPROVED

FAA CRS# KG4R309M

CERTIFIED ENGINES UNLIMITED, INC.

FAA CRS# KG4R309M
4000 N.W. 145th Street, Airport, Opa-Locka, Florida 33054
Phone: (305) 685-8331

LIMITED OVERHAUL WARRANTY

- 1. Subject Matter and Scope of Warranty.** Certified Engines Unlimited, Inc. (hereafter referred to as "CEU") warrants each overhauled engine to be free from defects in material workmanship. This Warranty is expressly subject to the terms and conditions set forth below and shall not apply outside the operational periods listed or to any engine which has been subject to misuse, neglect, accident or damage from the elements or which has been installed, repaired, maintained or altered in any manner which in the judgment of CEU has had an adverse effect on the performance or reliability of engine or part.
- 2. Time Limits.** This Warranty for parts and labor, extends for a period of nine (9) months from the date of service or two hundred (200) hours, whichever occurs first. An additional prorated warranty extends, parts only, to six hundred (600) hours on direct engines, and four hundred (400) hours on geared engines. Certified Engines Unlimited considers the frequent use and operation of an engine to be an integral factor in extending engine life. For this reason, CEU considers warranty hours based upon a minimum usage of 30 hours a month, regardless of actual operation hours.
- 3. Express Conditions.** As a time and condition of this Warranty, the customer is required to follow factory recommended service procedures and maintenance guidelines.
- 4. Proper maintenance logbooks** are to be kept by and maintained by the customer and shall be furnished to CEU on demand as a condition of the Warranty.
- 5. Limitations and Exclusions.** All parts and labor are to be approved by CEU prior to commencement of work under this Warranty. CEU is responsible only for the cost of reasonable labor and materials necessary to repair or replace the parts CEU determines to be defective in material or workmanship at CEU's place of business, located at Opa-Locka, Florida. Under no circumstances shall CEU be responsible for charges in the removal and reinstallation of defective parts or engines.
- 6. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED, OR STATUTORY, WHETHER WRITTEN OR ORAL, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS AND FOR ANY PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTY ARISING FROM ANY COURSE OF PERFORMANCE OR DEALING OR TRADE USAGE. THIS WARRANTY IS ALSO IN LIEU OF ANY OTHER OBLIGATION, LIABILITY, RIGHT OF CLAIM, WHETHER IN CONTRACT OR IN TORT, INCLUDING ANY RIGHT IN STRICT LIABILITY IN TORT OR ANY RIGHT ARISING FROM NEGLIGENCE ON THE PART OF CEU, AND CEU'S LIABILITY ON SUCH CLAIM SHALL IN NO CASE EXCEED THE PRICE ALLOCABLE TO THE ENGINE OR PART WHICH GIVES RISE TO THE CLAIM.**
- 7. LIMITATION ON LIABILITY.** IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF WARRANTY, CONTRACT OR ALLEGED NEGLIGENCE, SHALL CEU BE LIABLE FOR SPECIAL OR CONSEQUENTIAL OR ANY OTHER DAMAGE, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES, LOSS OR USE OF THE ENGINE OR AIRCRAFT OR COST OF REPLACEMENT, PERSONAL INJURY OR FATALITIES, OR FLIGHT DELAYS OR CANCELLATIONS.
- 8. CRACKED CYLINDERS AND CRANK CASES ARE EXCLUDED FROM ALL WARRANTIES UNLESS IT CAN BE DETERMINED THAT THE DAMAGE IS A DIRECT AND PROXIMATE RESULT OF IMPROPER WORKMANSHIP BY CEU. ACCESSORY ITEMS ARE TO BE WARRANTED BY VENDOR OF SUCH ITEMS.**

EBIS

ENGINE SERVICE AND

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

B
F

ENGINE MODEL:
IO-360-M1A
ENGINE S/N: L-32958-51A
REG. NO: 171PS
WORK ORDER:
3943-10-2010



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hangar 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 12/9/2010
AC TSN: 1195.2
ENG TT: 1195.2
TACH: 1195.2

Engine Entries

(5) INSTALLED ENGINE IO-360-M1A S/N L-32958-51A WITH TT: 1195.2 TSMOH: 00.0 AFTER OVERHAULED BY CERTIFIED ENGINES IN A/C N171PS IAW DIAMOND DA40 M.M CHAPTER 72 AND LYCOMING IO-360-M1A M.M. SEE ATTACHED 8130-1 FOR W/O DETAILS.... (9) C/W ANNUAL INSPECTION ON THIS ENGINE I.A.W FAR 43 APPENDIX D USING DIAMOND DA40 M/M CHAPTER 5 INSPECTION CHECKLIST AS A GUIDE. CHANGED ENGINE OIL AND FILTER. SERVICED ENGINE WITH 8 QTS OF AEROSHELL MINERAL OIL AND A NEW FILTER. OLD FILTER AND OIL SUMP SCREEN WERE CHECKED FOR CONTAMINATION. NONE FOUND. CHECKED MAG TO ENGINE TIMING. CLEANED, REGAPPED AND CHECKED SPARK PLUGS. PERFORMED COMPRESSION CHECK: ENGINE WAS GROUND RUN AND LEAK CHECKED OK.WORK DONE IAW LYCOMING IO-360-M1A MM. ADs CHECKED THROUGH 2010-21.... (14) RE INSTALLED OVERHAULED OIL COOLER P/N 10578T S/N 1150.IAW IO-360-M1A ENGINE MFG. SPECS AND DIAMOND DA40 M.M.... (16) C/W POWERFLOW EXHAUST CONTINUED AIRWORTHINESS DISASSEMBLY, INSPECTION AND SLIP JOINT LUBRICATION IAW MM PFS-15250-00.... (38) REPLACED ALL CORRODED ENGINE BAFFLE SEAL HARDWARE WITH NEW.... (41) REPLACED NO.1 CYL.EGT.PROBE WITH NEW P/N A002BG-WIP.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION OFFICE.

SIGNED FOR PREMIER AIRCRAFT SERVICE, INC FAA REPAIR STATION # 9PRR402B

DATE: 12/9/2010

SIGNED: *Adrian Arias*

Work Order: 3943-10-2010

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
IO-360-M1A
ENGINE S/N: L-32958-51A
REG. NO: 171PS
WORK ORDER:
4032-12-2010



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hangar 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 12/10/2010
AC TSN: 1196.1
ENG TT: 1196.1
TSMOH: 0.9
TACH: 1196.1

Engine Entries

(5) REPLACED INOPERATIVE NO. 4 CYL EGT PROBE WITH NEW P/N A002BG-WIP. OPS CHECK GOOD.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION OFFICE.

SIGNED FOR PREMIER AIRCRAFT SERVICE, INC FAA REPAIR STATION # 9PRR402B

DATE: 12/10/2010

SIGNED: *Adrian Arias*

Work Order: 4032-12-2010

Printed by EBis 3 (datcomedia.com)

12-31-10			Changed Oil 7 qts Aeroshell 100 Mineral Oil
1542.9 Hrs			New Tempstat AA48110-1 Oil Filter - Old Filter
1225 TACH			internally inspected c/c OK - Oil analysis taken
			<i>Adrian Arias</i>
			CARRIED FORWARD
			<i>End</i> A+P244764716
TOTAL THIS PAGE			
TOTAL FROM PREVIOUS SUMMARY			
TOTAL SINCE MFG.			

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS		SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.			
2-2-11	Changed oil 7 qts AeroShell 100W - New Temp		
1608.7 Hobbs	AA48110-1 Old filter internally inspected. Check OK -		
1234.7 Tach	Cleaned all plugs - Oil analysis taken -		
End		Scott Rogers	A-P24478478
5-3-11	Changed oil 7 qts AeroShell 100W - New Temp		
1670.2 Hobbs	AA48110-1 - Old filter internally inspected checked OK -		
1289 Tach	Oil analysis taken -		
End		Scott Rogers	A-P244784716
8-18-11	Changed Oil 7 qts AeroShell 100W - New Temp		
1727.3 Hobbs	AA48110-1 - Old filter internally inspected. Ch OK -		
1338.0 Tach	Oil Analysis Taken -		
End		Scott Rogers	A-P244784716

ENGINE MODEL:
IO-360-M1A
ENGINE S/N: L-32958-51A
REG. NO: 171PS
WORK ORDER:
4629-12-2011



Premier Aircraft Service, Inc.
Repair Station No. 9PRR402B
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 12/16/2011
A/C TSN: 1380.5
ENG TT: 1380.5
TSMOH: 185.3
TACH: 1380.5

Engine Entries

(3) C/W ANNUAL INSPECTION ON THIS ENGINE I.A.W FAR 43 APPENDIX D USING DIAMOND DA40 M/M CHAPTER 5 INSPECTION CHECKLIST AS A GUIDE. CHANGED ENGINE OIL AND FILTER. SERVICED ENGINE WITH 8 QTS AEROSHELL 100W PLUS OIL AND A NEW FILTER CH48110-1. OLD FILTER AND OIL SUMP SCREEN WERE CHECKED FOR CONTAMINATION. NONE FOUND. CHECKED MAG TO ENGINE TIMING. CLEANED, REGAPPED AND CHECKED SPARK PLUGS. PERFORMED COMPRESSION CHECK: 78-78-78-78/80. ENGINE WAS GROUND RUN AND LEAK CHECKED OK WORK DONE IAW LYCOMING IO-360-M1A MM. - ADs CHECKED THROUGH 2011-23.... (5) C/W AD 2008-14-07 LYCOMING FUEL INJECTION LINE AND CLAMP INSPECTION IAW LYCOMING SB 342E. NO DEFECTS NOTED. NEXT DUE IN 100 HRS.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND/OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION OFFICE.

DATE: 12/16/2011 SIGNED: *Adrian* Work Order: 4629-12-2011
Adrian Arias Certified Repair Station No. 9PRR402B Printed by EBis 3 (datcomedia.com)

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

E19

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
	BROUGHT FORWARD →				
14 Jan 2012	1389.5		194.3		Adjusted Mixture and Idle for proper operation - David Garcia ATP 3033332 David Dorris

Classic Aviation, LLC
Shenandoah Valley Regional Airport
Weyers Cave, VA 24486

N171PS

W/O # 12020701

Date 02/07/2012 Hourmeter 1806.9 Tach 1400.7 ACTT 1400.7

ENGINE LOG

Installed General Aviation Modifications, Inc., GAMjector Kit, No. GL10, S/N 21536, STC No. SE09445SC, per GAMjector Installation Procedure No. IP-98-001 (Rev. B) dated March 13, 1998. See Form 337 this date. C/W AD 2011-26-04 Fuel injector lines: Inspected fuel injector lines and clamps per MSB 342F. No defects noted. Next due 1500.7 ACTT or after any injector line work. Ops check normal. No leaks noted.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired and/or inspected in accordance with current Regulation of the Federal Aviation Agency and is approved for return to service for the work performed.

Signed _____
Classic Aviation, LLC

Steve Bradley
A&P # 2772438

CAPITAL AVIATION INST. & AVIONICS 10660 AVIATION LANE MANASSAS, VA 20110 OY1R391K
LOG ID# 8222 06-March-2012 WO# 43596 CA 11 HOBBS 1315.2
N171PS S/N 40.701 DIAMOND A/C IND INC DA-40 TACH 1406.9

Pg 1 / 1

Removed alternator PN ALU-8521LS SN G031590. installed owner supplied new Plane Power FAA/PMA alternator PN AL24-70 SN 47-120801 IAW Diamond Aircraft AMM 24-30-00 and Plane Power AL24-70 Installation Instructions 10-5001. Ground run function checks good.

weight & balance revised this date to reflect replacement.

THE AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER THE ABOVE WORK ORDER.

Todd Sommers
CRS OY1R391K TODD SOMMERS

Date 03/06/2012 Hourmeter 1815.2 Tach 1406.9

Removed 8 Champion REM38E spark plugs and replaced with 8 new Tempest REM38S fine-wire spark plugs. Ground and flight test normal.

By Richard Gillmore owner/PPL cert # 3228890
Richard Gillmore

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

Classic Aviation, LLC

Shenandoah Valley Regional Airport
Weyers Cave, VA 24486

N171PS

W/O # 12050101

Date 05/01/2012 Hourmeter 1830.5 Tach 1419.1 ACTT _____

ENGINE LOG

Drained oil; cut and checked filter. No defects noted. Installed new CH48110-1 oil filter and serviced engine with 6 qts. Aeroshell W100 oil. Ground run normal. No leaks noted.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired and/or inspected in accordance with current Regulation of the Federal Aviation Agency and is approved for return to service for the work performed.

Signed _____
Classic Aviation, LLC

Steve Bradley
A&P # 2772438

Classic Aviation, LLC

Shenandoah Valley Regional Airport
Weyers Cave, VA 24486

N171PS

W/O # 12072001

Date 07/20/2012 Hourmeter 1872.9 Tach 1455.5 ACTT _____

ENGINE LOG

Drained oil; cut and checked filter. No defects noted. Installed new CH48110-1 oil filter and serviced engine with 6 qts. Aeroshell W100 oil. Ground run normal. No leaks noted.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired and/or inspected in accordance with current Regulation of the Federal Aviation Agency and is approved for return to service for the work performed.

Signed _____
Classic Aviation, LLC

Steve Bradley
A&P # 2772438

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

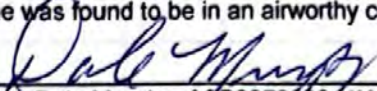
ENGINE SERVICE AND

Blue Ridge Airport Authority 525 Airport Rd, Martinsville, VA 24112 (276) 957-1109 Fax (276) 957-2292 1 of 2

Engine Date: 12/14/2012 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1497.5

Service performed: Drained oil and serviced with 8 quarts of Aeroshell 15W50 and one pint of ASL CamGaurd. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new AA48110-2 filter. Differential compression check performed I/AW Lycoming SI 1191A #1: 75/80 #2: 72/80 #3: 76/80 #4: 74/80. Inspected, tested, installed and torqued all spark plugs using new M-674 gaskets. C/W AD2011-26-04 amendment 39-16894 effective January 25, 2012 by visual inspection of all engine external fuel lines and support clamps per paragraphs (h) and no leaks or defects were noted, next inspection due before AFTT: 1597.5. C/W ICA on all Gamijectors I/AW General Aviation Modifications, Inc. Installation Procedure No. IP-98-001 Rev. B dated March 13, 1998 as required by STC SE09445SC. Replaced all rocker box gaskets with new P/N: 75906. Adjusted both magneto to engine timing per degree listed on engine data plate. Performed ground run and leak check and no leaks or defects were noted at this time.

All work listed above was done I/AW Lycoming IO-360 Operators Manual and I/AW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.

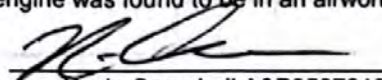

Dale Murphy A&P2278830441A

Blue Ridge Airport Authority 525 Airport Rd, Martinsville, VA 24112 (276) 957-1109 Fax (276) 957-2292

Engine Date: 6/25/2013 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1534.0

Service performed: Drained oil and serviced with 6 quarts of Aeroshell W100 and one pint of ASL CamGaurd. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new AA48110-2 filter. C/W AD2011-26-04 amendment 39-16894 effective January 25, 2012 by visual inspection of all engine external fuel lines and support clamps per paragraphs (h) and no leaks or defects were noted, next inspection due before AFTT: 1634.0. Performed ground run and leak check and no leaks or defects were noted at this time.

All work listed above was done I/AW Lycoming IO-360 Operators Manual and I/AW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.


Kevin Campbell A&P3537913

Classic Aviation, LLC

Shenandoah Valley Regional Airport
Weyers Cave, VA 24486

N171PS

W/O # 13112101

Date 11/21/2013 Hourmeter 2016.2 Tach 1577.3 ACTT

ENGINE LOG

Drained oil; cut and checked filter. Cleaned and reinstalled oil suction screen. No defects noted. Installed new CH48110-1 oil filter and serviced engine with 6 qts. Aeroshell W80 oil. Ground run normal. No leaks noted.

The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired and/or inspected in accordance with current regulation of the Federal Aviation Agency and is approved for return to service for the work performed.

Signed 
Classic Aviation, LLC

Dean Showalter
A&P # 3126788

TOTAL
TOT
PREVIO

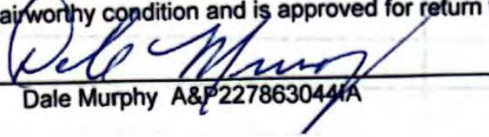
SINCE MFG.

MAINTENANCE RECORD

E20
10

Engine Tail Number: N171PS Aircraft Make/ Model: Diamond Aircraft DA 40 Engine TT: 1497.5 Date: 12/14/2012 2 of 2
Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1497.5 Engine TSMOH: 302.3

I certify this engine has been serviced and inspected I/AW a 100 Hour inspection I/AW FAR 43 appendix D and I/AW FAR 43.11. This engine was found to be in an airworthy condition and is approved for return to service.


Dale Murphy A&P2278630441A

Blue Ridge Airport Authority 525 Airport Rd, Martinsville, VA 24112 (276) 957-1109 Fax (276) 957-2292 1 of 1

Engine Date: 12/11/2013 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
Make: Lycoming IO-360-M1A S/N: L-32958-51A Tach: 1578.8 TTE:1578.8 TSMO:383.6

Service performed: Differential compression check performed I/AW Lycoming SI 1191A #1: 76/80 #2: 74/80 #3: 75/80 #4: 75/80. Inspected, tested, installed and torqued all spark plugs using new M-674 gaskets. C/W AD2011-26-04 amendment 39-16894 effective January 25, 2012 by visual inspection of all engine external fuel lines and support clamps per paragraphs (h) and no leaks or defects were noted, next inspection due before AFTT: 1678.8. C/W ICA on all Gamijectors I/AW General Aviation Modifications, Inc. Installation Procedure No. IP-98-001 Rev. B date March 13, 1998 as required by STC SE09445SC. Adjusted both magneto to engine timing per Mfg specs. Performed ground run and leak check and no leaks or defects were noted at this time.

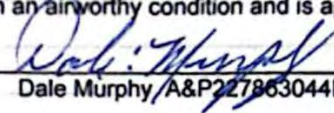
All work listed above was done I/AW Lycoming IO-360 Operators Manual and I/AW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.


Dale Murphy A&P2278630441A

2 of 2

Engine Date: 12/11/2013 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
Make: Lycoming IO-360-M1A S/N: L-32958-51A Tach: 1578.8 TTE:1578.8 TSMO:383.6

I certify this engine has been serviced and inspected I/AW a 100 hour inspection I/AW FAR 43 appendix D and I/AW FAR 43.11. This propeller was found to be in an airworthy condition and is approved for return to service.


Dale Murphy A&P2278630441A

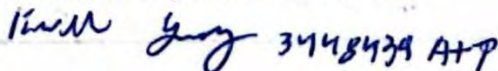
Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA 24018

Aircraft: DA40 XL Reg: 171PS

Hobbs: 2045.2 Tach: 1601.4

Service performed: Changed oil, removed bird nest, inspected engine for discrepancies. Ran up engine, leak check and ops check is good.

Kendall Young 3448439 A&P


Kendall Young 3448439 A&P

3/01/14

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

MAINTENANCE RECORD

E22
11

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
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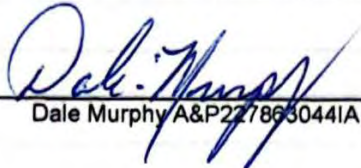
Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24018

1 of 1

Engine Date: 9/17/2014 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1871.2

Service performed: Drained oil and serviced with 6 quarts of Aeroshell W80. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new CH48110-1 filter.
Installed New left and right Slick ignition harness P#M4004.
Performed ground run and leak check and no leaks or defects were noted at this time.

All work listed above was done I/AW Lycoming IO-360 Operators Manual and I/AW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.


Dale Murphy A&P2278630441A

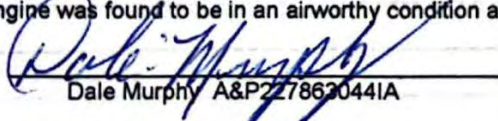
Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24018

1 of 2

Engine Date: 12/11/2014 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1702.5

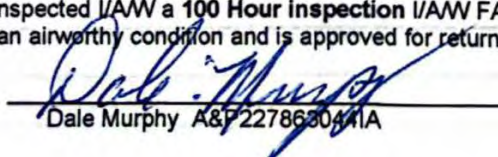
Service performed: Drained oil and serviced with 7 quarts of Aeroshell 15W50 and one pint of ASL CamGard. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new AA48110-2 filter. Differential compression check performed I/AW Lycoming SI 1191A #1: 77, 79, 79, 79. Inspected, tested, installed and torqued all spark plugs using new M-674 gaskets. CW AD2011-26-04 amendment 39-16894 effective January 25, 2012 by visual inspection of all engine external fuel lines and support clamps per paragraphs (h) and no leaks or defects, next inspection due before AFTT: 1802.5. Adjusted right magneto to engine timing per MFG spec..
Operational run-up satisfactory.

All work listed above was done I/AW Lycoming IO-360 Operators Manual and I/AW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.


Dale Murphy A&P2278630441A

Engine Tail Number: N171PS Aircraft Make/ Model: Diamond Aircraft DA 40 Engine TT: 1702.5 Date: 12/11/2014 2 of 2
Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1702.5 Engine TSMOH: 507.3

I certify this engine has been serviced and inspected I/AW a 100 Hour inspection I/AW FAR 43 appendix D and I/AW FAR 43.11. This engine was found to be in an airworthy condition and is approved for return to service.


Dale Murphy A&P2278630441A

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
Date <u>08/23/2015</u> Hourmeter <u>2240.8</u> Tach <u>1748.8</u> N171PS Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W100 oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual. By <u>Richard Gillmore</u> owner/PPL cert # <u>3228890</u> Richard Gillmore					

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24018

1 of 2

Engine Date: 12/10/2015 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
 Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1770.4

Service performed: Drained oil and serviced with 7 quarts of Aeroshell 15W50 and one pint of Avblend. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new AA48110-2 filter. Differential compression check performed I/AAW Lycoming SI 1191A #1: 76, 75, 77, 76. Inspected, tested, installed and torqued all spark plugs using new M-674 gaskets. C/W AD2015-19-07 visual inspection of all engine external fuel lines and support clamps and no leaks or defects, next inspection due before AFTT: 1870.4. C/W ICA on all Gamijectors I/AAW General Aviation Modifications, Inc. Installation Procedure No. IP-98-001 Rev. B dated March 13, 1998 as required by STC SE09445SC. Operational run-up satisfactory. All work listed above was done I/AAW Lycoming IO-360 Operators Manual and I/AAW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.

Dale Murphy
 Dale Murphy A&P227863044IA

Engine Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40 Engine TT: 1770.4 Date: 12/10/2015 2 of 2
 Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1770.4 Engine TSMOH: 575.2

I certify this engine has been serviced and inspected I/AAW a 100 Hour inspection I/AAW FAR 43 appendix D and I/AAW FAR 43.11 This engine was found to be in an airworthy condition and is approved for return to service.

Dale Murphy
 Dale Murphy A&P227863044IA

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24018

1 of 1

Engine Date: 4/27/2016 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
 Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1783.8

Service performed: C/W Slick SB1-15 replacement of Magneto Distributor Gear on #2 magneto 4370, S/N:14020347. Performed ground run and leak check and no leaks or defects were noted at this time.

All work listed above was done I/AAW Lycoming IO-360 Operators Manual and I/AAW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.

Dale Murphy
 Dale Murphy A&P227863044IA

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
Date <u>05/30/2016</u> Hourmeter <u>2300.2</u> Tach <u>1795.1</u> N171PS Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W100 Plus oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual. By <u>Richard Gillmore</u> owner/PPL cert # <u>3228890</u> Richard Gillmore		
Date <u>09/24/2016</u> Hourmeter <u>2352.2</u> Tach <u>1834.0</u> N171PS Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W100 Plus oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual. By <u>Richard Gillmore</u> owner/PPL cert # <u>3228890</u> Richard Gillmore		

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24012

1 of 2

Engine Date: 12/20/2016 Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40
 Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1860.9

Service performed: Drained oil and serviced with 7 quarts of Aeroshell 15W50 and one pint of Avblend. Removed oil filter, cut open and no contaminants were found. Installed, torqued and safetied one new AA48110-2 filter. Differential compression check performed I/AW Lycoming SI 1191A #1: 76, 76, 75, 74. Inspected, tested, installed and torqued all spark plugs using new M-674 gaskets. Replaced L/H magneto with new Slick S/N: 14040477. Checked engine to magneto timing and all was in operating limits. C/W AD2015-19-07 visual inspection of all engine external fuel injector lines and support clamps and no leaks or defects were noted. Next inspection due at AFTT: 1970.9. C/W ICA on Gamiinjectors I/AW General Aviation Modifications, Inc. Installation Procedure No. IP-98-001 Rev. B dated March 13, 1998 as required by STC SE09445SC. Performed ground run and pilot performed test flight and all systems checked normal. All work listed above was done I/AW Lycoming IO-360 Operators Manual and I/AW FAR 43.9. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.



Kevin Campbell A&P 3537913

Engine Tail Number: N171PS Aircraft Make/Model: Diamond Aircraft DA 40 Engine TT: 1860.9 Date: 12/20/2016 2 of 2
 Engine Make: Lycoming Engine Model: IO-360-M1A Engine S/N: L-32958-51A Tach: 1860.9 Engine TSMOH: 665.7

I certify this engine has been serviced and inspected I/AW a 100 Hour inspection I/AW FAR 43 appendix D and I/AW FAR 43.11. This engine was found to be in an airworthy condition and is approved for return to service.



Kevin Campbell A&P 3537913

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

MAINTENANCE RECORD

E26

13

REPAIRS, ADJUSTMENTS, MODIFICATIONS <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	SIGNATURE	LICENCE NUMBER
<p>Date <u>04/30/2017</u> Hourmeter <u>2429.9</u> Tach <u>1890.3</u> N171PS</p> <p>Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W100 oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual.</p> <p>By <u><i>Richard Gillmore</i></u> owner/PPL cert # <u>3228890</u> Richard Gillmore</p>		
<p>Date <u>08/02/2017</u> Hourmeter <u>2478</u> Tach <u>1927</u> N171PS</p> <p>Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W100-Plus oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual.</p> <p>By <u><i>Richard Gillmore</i></u> owner/PPL cert # <u>3228890</u> Richard Gillmore</p>		

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 12/27/17 Tail #: N171PS
A/C Make/Model: Diamond DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 1958 TT: 1958

Work Performed: Drained oil. Removed oil filter, cut open with no contaminants found. Installed, torqued, and safetied new filter. Serviced with 15W50 Aeroshell. Performed 100 hour inspection per Diamond and Lycoming MM. Cleaned plugs and injectors. Mag timing was found to be in limits. C/W ICA on Powerflow exhaust per PFS-15102. C/W ICA on Gami injectors per IP-98-001. C/W AD 15-19-07 by section I-2; inspection next due at 2068.00 hrs. AD 17-16-11 DNS by engine overhaul date. Performed ground run to check for leaks none found.

All work performed I/R/T Diamond and Lycoming maintenance manuals. In reference to the work performed the engine was found to be in airworthy condition and is approved for return to service.

William Painter
William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 12/27/17 Tail #: N171PS
A/C Make/Model: Diamond DA 40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 1958 TT: 1958

Work Performed:

I certify this engine has been inspected in accordance with a 100 hour inspection as per Diamond and Lycoming manuals and was determined to be in an airworthy condition.

William Painter
William Painter A&P 31706951A

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

E29

ENGINE SERVICE AND

Date 05/26/2018 Hourmeter 2556 Tach 1992 **N171PS**

S. INSPECTIONS,
Y LINES AS REQUIRED FOR COMPLETE

Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W100-Plus oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual.

By Richard Gillmore owner/PPL cert # 3228890
Richard Gillmore

STA
SouthTecAviation
Office: 704-431-6862

3330 Airport Loop Road
Salisbury, NC 28147
info@southtecaviation.com

Date: December 21, 2018 | Lycoming Engine | IO-360-M1A | S/N: L-32958-51A
Tech: 2022.2 hrs. TTE: 2022.2 hrs.

Annual inspection completed this date in accordance with Diamond Aircraft DA 40 AMM rev 7 and Lycoming Engine Repair Manual. Compressions: #1). 72/80, #2). 72/80 #3). 74/80 #4). 77/80. Drained oil and checked oil filter for metal, none found at this time. Installed new oil filter, P/N:(AA48110-2). Filled with eight quarts of Aeroshell 15w50 oil. Cleaned spark plugs, rotated and reinstalled. AD 2015-19-07 complied with in accordance with Lycoming Engines MSB No. 342G. Next due: 2132.2 hrs. Tightened oil filler tube. Installed missing hardware on engine baffling. Cleaned gaminjectors. Ran engine, adjusted idle and mixture, checked for oil leaks, ops check good at this time.

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

Christian Hedrick

A&P 3740465 IA

Date 06/06/2019 Hourmeter 2632 Tach 2053 **N171PS**

Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell 15W50 oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual.

By Richard Gillmore owner/PPL cert # 3228890
Richard Gillmore

Date 09/30/2019 Hourmeter 2670 Tach 2087 **N171PS**

Drained oil, removed oil filter, replaced filter with AA48110-2 Tempest, safety-wired filter, added 7 quarts of Aeroshell W15W50 oil, ran and leak-checked engine in accordance with Diamond DA40 maintenance manual.

By Richard Gillmore owner/PPL cert # 3228890
Richard Gillmore

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 7/28/2023 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A


Engine S/N: L-32958-51A Tach Time: 2217.4 TSMOH: 1022.2

Total Time: 2217.4

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safety wired. Serviced with 8 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1: 76/80 #2: 73/80 #3: 72/80 #4: 75/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Replaced intake gaskets and O-rings, exhaust gaskets, and rocker box gaskets. Replaced starter ring gear. Removed block heater. Inspected and lubricated all engine controls. Set magneto timing at 25°. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 2327.4.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 31706951A

Engine Date: 7/28/2023 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2217.4 TSMOH: 1022.2

Total Time: 2217.4

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 9/18/2023 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2269.5 TSMOH: 1074.3

Total Time: 2269.5

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs. Replaced oil sump screen.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Engine Date: 10/30/2023 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2317.9 TSMOH: 1122.7

Total Time: 2317.9

Work Performed: Replaced Cylinder #4 CHT Probe.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 11/9/2023 Tail #: N171PS

Engine Date: 11/9/2023 Tail #: N171PS

A/C Make/Model: Diamond DA40

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2317.9 TSMOH: 1122.7

Engine S/N: L-32958-51A Tach Time: 2317.9 TSMOH: 1122.7

Total Time: 2317.9

Total Time: 2317.9

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1:78/80 #2:76/80 #3:78/80 #4:77/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Set magneto timing at 25°. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 2327.4.

Work Performed: I certify this engine has been serviced and inspected I/R/T a **100 Hour Inspection** I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.

Run up and leak check performed with no leaks or defects noted at this time.



William Painter A&P 31706951A

All work listed above was performed I/R/T Lycoming IO-360 -M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



William Painter A&P 31706951A



Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 12/27/2023 Tail #: N171PS

Engine Date: 2/13/2024 Tail #: N171PS

A/C Make/Model: Diamond DA40

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2381.6 TSMOH: 1186.4

Engine S/N: L-32958-51A Tach Time: 2422.3 TSMOH: 1227.1

Total Time: 2381.6


Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs.

Work Performed: Drained oil and serviced with 7 quarts of Phillips 20W 50 X/C oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 72/80 #2:76/80 #3: 72/80 #4: 73/80. Replaced tension spring on mixture control. Removed fuel injectors, cleaned, and inspected, and installed all injectors to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Verified magneto timing to 25°. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. Next inspection due before AFTT 2532.3

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Scott Emmons A&P 4560305

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date 2/13/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2422.3 TSMOH: 1227.1

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 3/13/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2448.2 TSMOH: 1253.0
Total Time: 2448.2

Work Performed: removed top sparkplugs and performed a borescope inspection and reinstalled sparkplugs to proper torque spec.
Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305


Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 4/1/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2467.1 TSMOH: 1271.9
Total Time: 2467.1

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs. Performed a borescope inspection on all four cylinders.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 5/13/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2517.5 TSMOH: 1322.3

Work Performed: Drained oil and serviced with 7 quarts of Phillips 20W 50 X/C oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 75/80 #2: 76/80 #3: 76/80 #4: 74/80. Removed fuel injectors, cleaned, and inspected, and installed all injectors to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Verified magneto timing to 25°. Replaced fill tube base gasket (P/N: 72059). Replaced o ring on fuel finger strainer (P/N: 951789). Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. Next inspection due before AFTT 2627.5


All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 5/13/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2517.5 TSMOH: 1322.3

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 6/11/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2563.7 TSMOH: 1368.5
Total Time: 2563.7

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs. Performed a borescope inspection on all four cylinders.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 7/23/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2589.0 TSMOH: 1393.8
Total Time: 2589.0

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safety wired. Serviced with 8 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1:75/80 #2:78/80 #3:78/80 #4:77/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Checked magneto timing at 25°. Replaced fuel servo with PN 2576568 SN 72FJ8302 overhauled by D&G Supply. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 2699.0.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 7/23/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2589.0 TSMOH: 1393.8
Total Time: 2589.0

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 31706951A

TOTAL SINCE MFG.		
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Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 10/1/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2635.9 TSMOH: 1440.7
Total Time: 2635.9

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs. Performed a borescope inspection on all four cylinders. Checked mag timing Right mag at 25.1 left mag at 25.3. installed new dipstick gasket P/N:72059.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 11/25/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2684.8 TSMOH: 1489.6

Work Performed: Drained oil and serviced with 7 quarts of Phillips 20W 50 X/C oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Removed suction screen inspected, cleaned and reinstalled with new crush gasket to proper torque and safetied. Complying with AD2024-21-02 next due at next oil change. Differential compression test performed results as follows: #1: 78/80 #2: 75/80 #3: 77/80 #4: 78/80. Removed fuel injectors, cleaned, and inspected, and installed all injectors to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Verified magneto timing to 25°. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. Next inspection due before AFTT 2794.8

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

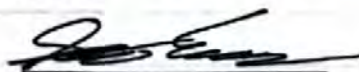


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 11/25/2024 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2684.8 TSMOH: 1489.6

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 4/10/2025 Tail #: N171PS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-32958-51A Tach Time: 2725.2 TSMOH: 1530.0
Total Time: 2725.2

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs. Performed a borescope inspection on all four cylinders.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

SB2-19A
 SBI-19
 SBI-15A

Kane Aviation LLC
 22 Waypoint Dr NW
 Roanoke, VA 24012

Date: 7/6/2025 Tail #: N171PS

Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A


Engine S/N: L-32958-51A Tach Time: 2781.1 TSMOH: 1585.9

Total Time: 2781.1

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1:68/80 #2:78/80 #3:69/80 #4:78/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Replaced intake and exhaust rocker arms, rocker shafts, thrust buttons and push rod seals. Replaced mags for 500 hour check installed Mags overhauled by Aircraft Magneto Service under work order 52275. Set magneto timing at 25°. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 2891.1.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 -M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


 William Painter A&P 31706951A

Kane Aviation LLC
 22 Waypoint Dr NW
 Roanoke, VA 24012

Engine Date: 7/6/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2781.1 TSMOH: 1585.9

Total Time: 2781.1

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.


 William Painter A&P 31706951A

Kane Aviation LLC
 22 Waypoint Dr NW
 Roanoke, VA 24012

Engine Date: 8/6/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: 2831.8 TSMOH: 1636.6

Total Time: 2831.8

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs. Replaced spark plugs from cylinder #1 with two new UREM38S Performed a borescope inspection on all four cylinders.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


 Scott Emmons A&P 4560305

Kane Aviation LLC
 22 Waypoint Dr NW
 Roanoke, VA 24012

Engine Date: 9/26/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: ~~2601.8~~ 2895.4 TSMOH: ~~1480.96~~ 1690.2

Total Time: 2885.4

Work Performed: Drained oil and serviced with 7 quarts of Phillips 20W 50 X/C oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Removed suction screen inspected, cleaned and reinstalled with new crush gasket to proper torque and safetied. Differential compression test performed results as follows: #1: 73/80 #2: 72/80 #3: 75/80 #4: 72/80. Removed fuel injectors, cleaned, and inspected, and installed all injectors to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Verified magneto timing to 25°. Installed new intake gaskets(SL71973), and O-rings(SL77569). Installed new exhaust gaskets(RA77611). Installed new return hoses(SL-STD-1821). Removed cleaned and reinstalled manifold drain. Installed new fill tube gasket(RG-72059). Installed new engine airfilter(FR-08504). Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. Next inspection due before AFTT ~~2794.8~~ 2995.7

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


 Scott Emmons A&P 4560305

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 9/26/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-32958-51A Tach Time: ~~2884.8~~^{SE} 2895.4 TSMOH: ~~1489.6~~^{Sc} 1690.2

Total Time: 2885.4

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service



Scott Emmons A&P 4560305

Engine Date: 10/9/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

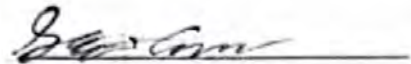
Engine S/N: L-32958-51A Tach Time: 2898.0 TSMOH: 1702.8

Total Time: 2898.0

Work Performed: Installed serviceable fuel servo model number LFR-NNSS5, Basic NO AV2576515-A, Parts List no AV2576568-1, S/N: AV169498. Installed serviceable AMS-4290 fuel flow divider S/N:2576567-1. Installed new gascolator filter FIA375. Removed Gamijectors and placards for Gamijectors from cylinders. Installed 4 new Avstar fuel nozzles (P/N: AV2524864-2).

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Engine Date: 10/27/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

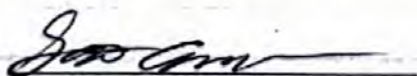
Engine S/N: L-32958-51A Tach Time: 2910.0 TSMOH: 1702.8

Total Time: 2910.0

Work Performed: Removed injectors, cleaned, reinstalled. Flushed flow divider. Removed fuel screen, inspected and reinstalled. Disconnected all fuel lines from the firewall to the flow divider and flushed with fuel. Removed hard lines from flow divider to the injectors and flushed with fuel. Reinstalled all fuel lines.

Run up and leak check performed with no leaks or defects noted at this time. Test flight was conducted to ensure proper fuel flow in operation.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Engine Date: 12/1/2025 Tail #: N171PS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

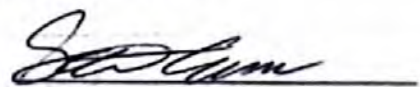
Engine S/N: L-32958-51A Tach Time: 2931.2 TSMOH: 1736.0

Total Time: 2931.2

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 tempest oil filter. Removed, cleaned, inspected, tested, and reinstalled and torqued spark plugs.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators Manual and AC 43.13. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

