

ENGINE S/N
L-33782-S1E

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

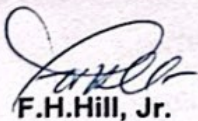
The United States of America
Department of Transportation
Federal Aviation Administration
Washington, D.C.

No. E 407485

Export Certificate of Airworthiness

This certifies that the product identified below and more particularly described in Specification (s)¹ 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 those 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-33782-51E**
New ☒ Newly Overhauled ☐
Used Aircraft ☐
Country to which exported: **Canada**
Exceptions: **None**


F.H. Hill, Jr.

Signature of Authorized Representative

September 13, 2007

Date

ODARF830878NE

District Office or Designee Number



¹ 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.

LYCOMING

A Textron Company

**RECORD of ACCESSORIES
AND
MAJOR PARTS SHIPPED with ENGINE**

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

Model No: **IO-360-M1A**Serial No: **L-33782-51E**Enpl: **ENPL-RT10051**Order No **MT298596**TC No: **1E10**Date: **9/11/2007**

Part Name	Part Number	Manufacturer	Serial	Setting
CARBURETOR				
INJECTOR	61J22633	PAM	70C68603	2576568-1
LT ALTERNATOR	32C19553	KELLY	H072950	
RT ALTERNATOR				
MAGNETO LEFT	66GR25SANN	SLICK	07071813	
MAGNETO RIGHT	66GP-0SANN	SLICK	07071894	
MAGNETO DUAL				
LASER IGN CONT				
STARTER	31B22105	SKY-TEC	F4L-070709	
FUEL PUMP	LW-15473	LYC	3407 D/C	
IGN HARNESS L	67P20429	SLICK		
IGN HARNESS R	67P20428	SLICK		
LASER IGN HARNESS				
SPARK PLUG	1182-E7	Champion		
LT TURBOCHARGER				
RT TURBOCHARGER				
BYPASS VALVE				
DENSITY CONTR.				
PRESS. CONTR.				
AB PRESS REL.				
#1 INTERCOOLER				
#2 INTERCOOLER				
CRANKCASE MATCH NO. K0019		CRANKSHAFT SERIAL NO. V537948763		

All accessories listed are 0 (zero) time since New or 0 (zero) time since Overhaul.
All accessories are new unless part number is succeeded by -85 or -70.

Released: Inspector

6Date: **9/11/2007**

C of A Issued Date:

9-13-07

NOTE: Form to be used on all New, Overhauled, Rebuilt Engine Models.

Form ET-001 (REV 03/05)

ENGINE LOG

1. Make LYCOMING
2. Model IO-360-M1A
3. Specification 1E10
4. Manufacturer's Serial Number L-33782-S1E
5. Date of Manufacture _____
6. Aircraft Inspection Cycle _____

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →			0	0	ENGINE INSTALLED NEW ON DA 40 S/N
/					Engine installation inspected I.A.W. Diamond Aircraft Industries Inc. DA 40 W.I.S. Rev: P Form ME-01-A
					Engine service with 8 qts. Of Philips 20W50 Type "M" engine oil.
					Engine break-in I.A.W. Lycoming Service Instruction 1427B,
					FLIGHT TEST COMPLETED
DEC 06 2007			5.0		HOURS BROUGHT FORWARD

ENGINE MODEL:
ENGINE S/N:
REG. NO: N695DS
WORK ORDER:
4344-02-2008



Sterling Aviation
145 John Glenn Drive
Concord, CA 94520
Phone: 925-676-2100

DATE: 2/21/2008
A/C TSN: 63
ENG TT: 63
TACH: 63

Engine Entries

Serviced engine with 8qts of 15W-50 oil. Installed a CH48110-1 oil filter. Insp. of old filter, no metal found. Ran and leak checked. No leaks found. Hobbs 46.2

Maintenance Release

The aircraft and/or component(s) on N695DS was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 4344-02-2008, Dated 2/21/2008.

DATE: 2/21/2008

SIGNED:

Bill Wang ATP 3111468

Work Order: 4344-02-2008

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WEST COAST
Charters, Inc.

Tail# N695DS	Model: Lycoming IO360	S/N: L33782-51E
Engine Log	Total Time: 102.0	Total Cycles: N/A
AFTT: 133.6	TSO: N/A	CSO: N/A

PERFORMED THE FOLLOWING SCHEDULED MAINTENANCE ITEMS

- 1) 50hr oil change, new oil filter P/N CH48110 installed, serviced with 8qts Phillips 20W50, leak checked.

PERFORMED THE FOLLOWING UNSCHEDULED MAINTENANCE ITEMS

- 1) Cleaned and gapped all spark plugs.
- 2) Checked and adjusted the magneto timing.
- 3) Tightened the exhaust mounting strap

THE ABOVE DESCRIBED MAINTENANCE IS CERTIFIED AIRWORTHY AND A DETAILED RECORD IS ON FILE UNDER S.O. #. LS08-1150

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR AN INSPECTION PROGRAM REQUIRED BY FAR 91.409 (F) (3), AND IS APPROVED FOR RETURN TO SERVICE.

AUTHORIZED SIGNATURE

[Signature]

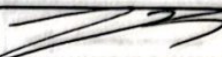
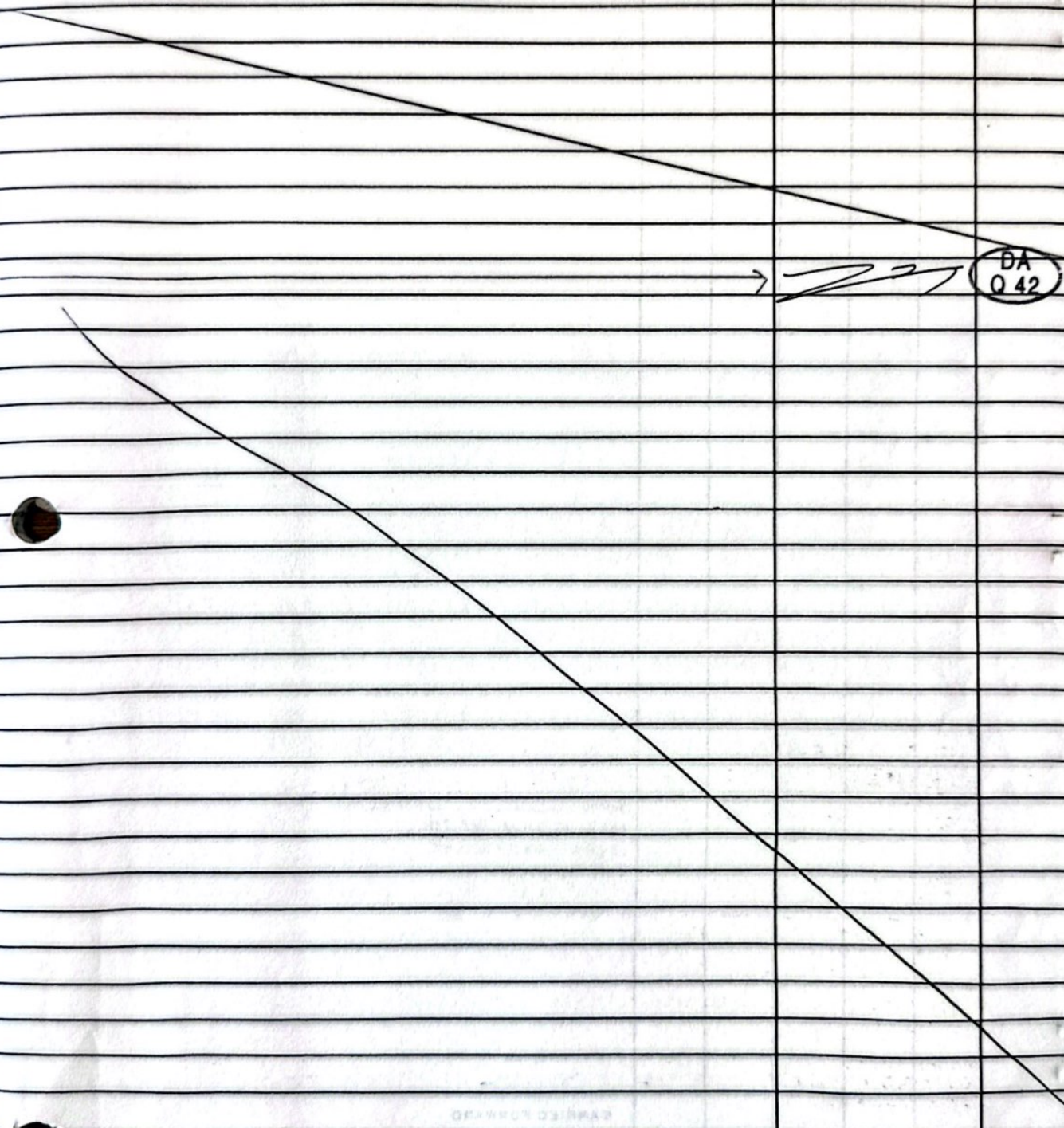
DATE: AUG 13/2008

WEST COAST CHARTERS INC, 2881 EAST SPRING STREET LONG BEACH, CA 90806
FAA CRS GSPR467E

SINCE MFG.

MAINTENANCE RECORD

1

<small>REPAIRS, ADJUSTMENTS, MODIFICATIONS</small> <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small>	<small>SIGNATURE</small>	<small>LICENCE NUMBER</small>
40.865		DA Q 42
		

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

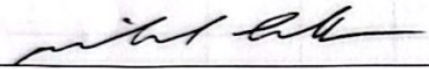
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2000	1000	0	
1000	0		
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ENGINE SERVICE AND

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

Date 01/13/2009 N695DS Make/Model Diamond DA 40 S/N 40.865 Tach 146.4 Hobbs 195.3
 Engine Make/Model Lycoming IO-360-M1A S/N L-33782-51E ETT 146.4 TSMOH N/A

Complied with an annual inspection on this engine in accordance with a single engine aircraft checklist, and FAR part 43, appendix D. Cleaned engine and all components, and lubed control cables and linkages as required. Performed compression test, results were as follows: #1-79/80, #2-78/80, #3-78/80, #4-76/80. Cleaned, inspected, gapped, tested, rotated and re-installed spark plugs. Drained oil, removed oil filter and installed new Champion oil filter P/N CH48110-1. Cut open and inspected old oil filter to check for unacceptable particles. None noted at this time. Serviced engine with 8 quarts of Phillips XC 20W-50 oil. **Complied with AD 2008-08-14, amendment 39-15466, effective date 04/29/2008, Precision Airmotive "Inspection of fuel injection servo plug" in accordance with AD para. (f), (g). No discrepancies noted at this time. AD next due at tach: 196.4 or next oil change, whichever occurs first. Complied with AD 2008-14-07, amendment 39-15602, effective date 8/14/2008, Lycoming "Inspection of externally mounted fuel injector lines", in accordance with AD para. (k). No discrepancies noted at this time. AD next due at ETT: 246.4, at engine overhaul or any time maintenance is performed where fuel injection line clamps are disturbed.** Performed AD search, all AD's reviewed and all applicable AD's complied with to this date. Performed satisfactory engine ground run to check for leaks, operation and performance. All work performed in accordance with Lycoming IO-360 series operators manual as appropriate to the work performed. I certify this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition, and is approved for return to service.


 Michael Cronk A&P 3218572 IA

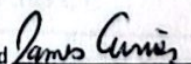
LA QUINTA AIR SERVICES INC. ENGINE LOGBOOK ENTRY

N695DS 6/3/09 TACH TIME: 190.3 HOBBS TIME: 255.9 HOURS
 CHANGED THE OIL AND OIL FILTER. ADDED 8 QUARTS OF AEROSHELL 15W-50 MULTIVISCOSITY OIL AND INSTALLED ONE NEW CHAMPION CH48110-1 FILTER. INSPECTED THE OLD OIL FILTER FOR CONTAMINATES, CHECKED NORMAL. COMPLIED WITH PRECISION AIRMOTIVE A.D. 2009-02-03 PARA.(j),(g),(h) BY A 50 HOUR/OIL CHANGE INTERVAL INSPECTION OF THE FUEL SERVO PLUG. ENGINE RUN UP AND OIL LEAK CHECKS PERFORMED.

Signed  W.O. # 3303
 FAA Repair Station LQ6R171N
 LA QUINTA AIR SERVICES INC.
 THERMAL, CA 92274

LA QUINTA AIR SERVICES INC. ENGINE LOGBOOK ENTRY 6/18/09

N695DS TACH TIME: 191.0 HOBBS TIME: 257.2 HOURS
 COMPLIED WITH PRECISION AIRMOTIVE A.D. 2009-02-03 BY REPLACEMENT OF THE FUEL INJECTOR SERVO PLUG GASKET P/N 2577258 IN ACCORDANCE TO MSB NO. PRS-107, REVISION 4, PARA. G, I THROUGH 10. REPLACED THE ALTERNATE AIR VALVE BODY WITH A NEW DIAMOND AIRCRAFT P/N D41-7166-20-30 VALVE BODY. ENGINE RUN UP AND OPERATIONAL CHECKS PERFORMED.

Signed  W.O. # 3310
 FAA Repair Station LQ6R171N
 LA QUINTA AIR SERVICES INC.
 THERMAL, CA 92274

TOTAL TH
 TOTAL
 PREVIOUS
 TOT
 SINCE

MAINTENANCE RECORD

2

REPAIRS, ADJUSTMENTS, MODIFICATIONS

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

SIGNATURE

LICENCE
NUMBER

LA QUINTA AIR SERVICES INC.

N695DS 10-12-09 TACH TIME 240.8 HOBBS 316.2 HOURS. CHANGED THE ENGINE OIL AND OIL FILTER. ADDED 8 QUARTS OF AEROSHELL 15W-50 MULTIVISCOSITY OIL AND INSTALLED ONE NEW CHAMPION CH48110-1 FILTER. INSPECTED THE OLD OIL FILTER FOR CONTAMINATES, CHECKED NORMAL. ENGINE RUN UP AND OIL LEAK CHECKS PERFORMED.

Signed James Currier W.O. # 3371
FAA Repair Station LQ6R171N
LA QUINTA AIR SERVICES INC.
THERMAL, CA 92274

Engine

Date 1-29-2010

Make Lycoming

Total Time 280.4

TTSN 280.4

Registration # 695DS

Model IO-360-M1A

Serial # L-33782-S1E

Tach Time 280.4

Inspected engine mounts, baffling, exhaust system, accessories, wiring, fuel and oil hoses. Inspected oil cooler. Cleaned and inspected fuel strainer. Inspected and lubed engine controls. Performed compression test as follows: # 1 76/80, # 2 74/80, # 3 76/80, # 4 75/80. Checked magneto timing to 25 degrees. Removed clean, gap, re-install spark plugs. Complied with AD's 2008-14-07 and 2008-08-14 by inspection of fuel injector clamps and Fuel injector servo plug. Next due 380.4 hours. No defects noted.

Test run and function check OK.....END.....

Airworthiness Directives checked through:

1-29-2010

I Certify this engine has been inspected IACW 100 Hr/Annual Inspection per scope and detail of FAR 43 Appendix "D" and was found to be in an airworthy condition.

Robert Finch AP IA 2703704

Date 3/9/2010

Make Diamond

Total Time 289.1

Tach Time 289.1

Lycoming IO-360 M1A

Registration # 695DS

Model DA40

Serial # 40.865

Engine TSN 289.1

Drained engine oil and removed oil filter. Installed new CH48110 filter and 4 quarts AS100W Plus. Aircraft needs to be test ran to perform leak check before flight...END...

Robert Finch AP IA 2703704

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	7-15-2010 TACH 340.8				
	DRAINED OIL. REMOVED FIZER.				
	INSTALLED CH 110 FILTER.				
	ADDED 8 QTS AS100W PLUS				
	OIL. ROBERT FINCH AP IA				
	2703704				

Date 12/7/2010
 Make Diamond Star
 Total Time 470.7 Hobbs
 Tach Time 374.8
 Engine Lycoming IO-360 M1A

Registration # 695DS
 Model DA40
 Serial # 40.865
 Engine TSN _____

Troubleshoot rough running engine and excessive magneto drop.
 Remove both magnetos and send out to Aero Accessories, Van Nuys, CA for overhaul.
 Magneto 8130 forms with aircraft documents.
 Remove old spark plugs and install 8 each new platinum fine wire spark plugs.
 Install magnetos with new gaskets, set magneto timing.
 Function check and test run engine. Operations normal.

Robert Finch AP IA 2703704

[Signature]

Engine

Date <u>1/17/2011</u>	Registration # <u>695DS</u>
Make <u>Lycoming</u>	Model <u>IO-360-M1A</u>
Total Time <u>388.0</u>	Serial # <u>L-33782-S1E</u>
TTSN <u>388.0</u>	Tach Time <u>388.0</u>

Inspected engine mounts, baffling, exhaust system, accessories, wiring, fuel and oil hoses.
 Inspected oil cooler. Cleaned and inspected fuel strainer. Inspected and lubed engine controls.
 Performed compression test as follows: # 1 79/80, # 2 78/80, # 3 78/80, # 4 78/80.
 Checked magneto timing. Drained engine oil installed 110-1 filter. 7 qts AS100W
 Complied with AD's 2008-14-07 and 2008-08-14 by inspection of fuel injector clamps and
 Fuel injector servo plug. Next due 488.0 hours. No defects noted.
 Test run and function check OK.....END.....
 Airworthiness Directives checked through: 1/17/2011
 I Certify this engine has been inspected IACW 100 Hr/Annual Inspection per scope
 and detail of FAR 43 Appendix "D" and was found to be in an airworthy condition.

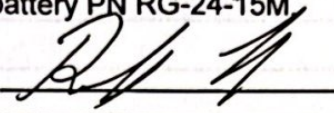
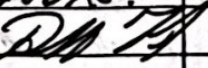
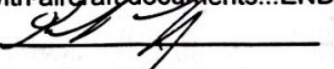
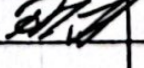
Robert Finch AP IA 2703704

[Signature]

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

3

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		SIGNATURE	LICENCE NUMBER
Date	3/14/2011	Registration #	695DS
Make	Diamond	Model	DA40
Total Time	493.7 Hobbs	Serial #	40.865
Tach Time	393.8	Engine TSN	393.8
Installed new Concorde ships battery PN RG-24-15M			
...END...			
Robert Finch AP IA 2703704			
6-6-2011 TACH 438.1 DRAINED ENGINE OIL			
REMOVED FILTER. INSTALLED NEW CH110			
FILTER AND 8 QTS ASIOWT OIL. INSPECTED			
FUEL INJECTOR SERVOPUMP & CLAMPS PER			
AD 200P-14-07 AND AD 200P-08-14.			
NEXT INSPECTIONS DUE 508 HOURS.			
ROBERT FINCH AP IA 2703704			
Date	7/15/2011	Registration #	695DS
Make	Diamond	Model	DA40
Total Time	456.0	Serial #	40.865
Tach Time	356.0	Engine TSN	356.0
Leak test exhaust on aircraft. Several leaks discovered at exhaust spyder.			
Remove leaking exhaust system. Ship exhaust to Acorn Welding, Edmonton, AB			
for repairs. Re-install exhaust with new gaskets and hi-temp anti-seize.			
Repair forms for exhaust included with aircraft documents...END...			
Robert Finch AP IA 2703704			
8-1-2011 REMOVE ALL SPARK PLUGS AND INSPECT.			
CLEAN BOTTOM PLUGS & RE-INSTALL			
RUN-UP SATISFACTORY.			
ROBERT FINCH AP IA 2703704			

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 →					
8-31-2011	493	9			DRAINED OIL & REMOVED FILTER. INSTALLED CH 110-1 FILTER. INSTALL 7 QTS AS100W PLUS OIL. AD# 2011-15-10 FUEL SERVO DIAPHRAGM NOT APPLICABLE DUE & NO WORK PERFORMED ON FUEL SERVO. ROBERT FINCH AP IA 2703704 <i>RF</i>
12-14-2011	TACH	543.8			DRAINED ENGINE OIL AND REMOVED FILTER. INSTALLED CH 110-1 FILTER AND 7 QTS AS100W PLUS OIL. INSPECTED FUEL INJECTOR SERVO PLUGS AND CLAMPS PER AD 2008-14-07 AND AD 2008-08-14 NO DEFECTS NOTED. NEXT INSPECTION DUE 648 TACH. ROBERT FINCH AP IA 2703704 <i>RF</i> ..END..

Date	3-22-12	Registration #	695DS
Make	DIAMOND	Model	DA-40
Total Time	595.8	Serial #	40.8105
Tach Time	595.8	Hobbs Time	728.8

DRAIN ENGINE OIL & REMOVE FILTER. INSTALL NEW CH 110-1 FILTER & 7 QTS AS100W PLUS OIL. SAFETY DRAIN PLUG & OIL DRAIN. INSPECT FUEL SERVO PLUG AND FUEL INJECTOR CLAMPS PER A.D. NO DEFECTS NOTED... END...

Robert Finch AP IA 2703704 *RF*

Test run *OK*
DT

Date	6-15-2012	Registration #	695DS
Make	LYCOMING	Model	10-360-M1A
Total Time	650.7	Serial #	L-337P2-SKE
Tach Time	650.7	Hobbs Time	

INSPECTED FUEL INJECTOR LINE CLAMPS AND SERVO PLUG PER AD 2008-14-7 AND 2008-08-14. NO DEFECTS NEXT DUE 750.7 HRS. DRAINED ENGINE OIL & REMOVE FILTER. INSTALL NEW FILTER 110-1 AND 7 QTS AS100W PLUS OIL. INSTALL USED SERVICEABLE OIL QUICK DRAIN WITH NEW O-RING. TEST RUN & LEAK TEST OK... END...

Robert Finch AP IA 2703704 *RF*

TOTAL THIS
TOTAL FR
PREVIOUS SUM

TOTAL
SINCE MF

MAINTENANCE RECORD

4

REPAIRS, ADJUSTMENTS, MODIFICATIONS

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

SIGNATURE

LICENCE
NUMBER

Engine

Date 8/22/2012

Make Lycoming

Total Time 697.9

TTSN 697.9

Registration # 695DS

Model IO-360-M1A

Serial # L-33782-S1E

Tach Time 697.9

Inspected engine mounts, baffling, exhaust system, accessories, wiring, fuel and oil hoses.
Inspected oil cooler. Cleaned and inspected fuel strainer. Inspected and lubed engine controls.
Performed compression test as follows: # 1 780, # 2 790, # 3 780, # 4 790.
Checked magneto timing. Drained engine oil installed 110-1 filter. 7 qts AS100W
Complied with AD's 2008-14-07 and 2008-08-14 by inspection of fuel injector clamps and
Fuel injector servo plug. Next due 797 hours. No defects noted.

Test run and function check OK.....END.....

Airworthiness Directives checked through: 8/22/2012

I Certify this engine has been inspected IACW 100 Hr/Annual Inspection per scope
and detail of FAR 43 Appendix "D" and was found to be in an airworthy condition.

Robert Finch AP IA 2703704

Date 10/2/2012

Make Lycoming

Total Time 749.5

Tach Time 749.5

Registration # 695DS

Model IO-360-M1A

Serial # L-33782-S1E

Engine TSN 749.5

Drained engine oil and removed oil filter. Installed new CH48110 filter
and 7 quarts AS100W Plus. Test run and leak check OK...END...

Robert Finch AP IA 2703704

Date 12/13/2012

Make Lycoming

Total Time 807.3

Tach Time 807.3

Registration # 695DS

Model IO-360-M1A

Serial # L-33782-S1E

Engine TSN 807.3

Drained engine oil and removed oil filter. Installed new CH48110 filter
and 7 quarts AS100W Plus. Test run and leak check OK...END...

Robert Finch AP IA 2703704

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.	
Date	5/14/2013		Registration #		695DS
Make	LYCOMING		Model		20-760
Total Time	856.8		Serial #		40.865
Tach Time	856.8		Hobbs Time		NA
<p>DRAIN OIL & REMOVE FILTER. INSTALL NEW 10 FILTER & 9 QTS 20/50W PUTS. ENGINE NEEDS TO BE 10K TOSTED BEFORE FLIGHT. INSPECTED FUEL INJECTOR PLUG & FUEL INJECTOR CLAMPS. PER A.B. NO DEFECTS, NEXT DUE NEXT OIL CHANGE. END.</p>					
Robert Finch AP IA 2703704 <i>[Signature]</i>					



Date: 9/13/13 N695DS S/N: 40.865
Engine: Lycoming IO-360-M1A S/N: L-33782-51E
Total Time: 894.4 Hobbs: 1079.5

Angel City Flyers
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Performed 100 Hour/Annual Inspection using DA40 AMM as a guide.
2. Checked engine compression: #1 74/80 #2 78/80 #3 74/80 #4 74/80.
3. Retimed mags IAW Lycoming OM 72-60-03e.
4. Replaced oil filter P/N AA48110-2. Serviced with X/C 20W-50 IAW DA40 AMM 12-10-00.
5. Replaced muffler insert with new P/N PFS-8016 IAW PFS-15250-00.
6. Replaced alternator and battery cooling ducts IAW DA40 AMM 71-00-00.
7. AD 2011-26-04 (fuel injector lines) inspected IAW Lycoming MSB342F. Next due by 994.4.
8. ADs current to biweekly revision 2013-016.
9. Performed ground run operational and leak check.

I certify this engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

Authorized Signature

[Signature]
David Seastead

AP3492477 IA

Air Wilmington Inc. PO Box 1930, Wilmington, NC 28402 (910) 763-0146

N695DS Diamond DA 40 S/N 40.865 Hobbs: 944.2 Date: DEC 10, 2013

Performed oil change using customer supplied oil, Phillips 20/50 and CH48110-1 oil filter. Filled with 9 QTS. Leak check and ground run good. Serviced all tires. No defects noted. Work performed IAW Diamond DA 40 AMM.

John Nelson
A&P 3403532

[Signature]

CARRIED FORWARD


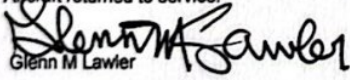
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TOTAL
SINCE MFG.

MAINTENANCE RECORD

5

<p>REPAIRS, ADJUSTMENTS, MODIFICATIONS</p> <p>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</p>	SIGNATURE	LICENCE NUMBER
<p>SouthTecAviation Mobile (334) 728-6806</p> <p>Date: Mar.26 2014. DA40.865 Reg: N695DS Lyc. IO360 M1A L-33782-51A Tach: 1808.8 TT: 1808.8 hrs.</p> <p>Annual/100hr inspection completed this date in accordance with Diamond Aircraft DA40-180 AMM rev 7.</p> <p>Compression test #1 76/80, #2 75/80, #3 78/80, #4 76/80. Removed filter and suction Screen opened for metal inspection, none found. Checked Magneto timing, cleaned and gaped Spark Plugs. Replaced Sniffle Valve P/N 75444. Replaced Alternator brush set With P/N AUL-3045BS.</p> <ul style="list-style-type: none"> • Filled engine with Phillips XC oil and installed a Tempest AA48110-2 filter. • AD 2011-26-04 C/W by inspection of fuel injector lines. (Next Due 1082hrs). <p>See AD list for Compliance</p> <p>I certify that this engine has been inspected I/A/W an Annual/100 hr inspection and found to be in an Airworthy Condition</p> <p> Glenn M. Lawler</p> <p>AP 2151929 IA</p>		
<p>SouthTecAviation Mobile (334) 728-6806</p> <p>Date: Oct 30 2014. DA40.865 Reg: N695DS Lyc. IO360 M1A L-33782-51A Tach: 1035.2 TT: 1035.2 hrs.</p> <p>Changed oil and filter. Filled sump with Aeroshell 15W50 oil and replaced filter with new \ Tempest AA-48110-2 filter. Inspected old filter for metal and none found.</p> <p>All work performed I/A/W Diamond Aircraft Maintenance Manual and all Applicable FAR's Aircraft returned to service.</p> <p> Glenn M. Lawler</p> <p>AP 2151929 IA</p>		

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND



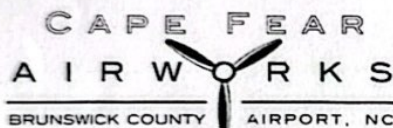
910-367-3344
www.CapeFearAirworks.com

N695DS	Eng Model IO-360-M1A	Eng S/N L-33782-51E	Annual due Mar-16
Date	23-Mar-15	Recurring AD's	Due
Current Tach:	1057	AD 11-26-04 Fuel Injection Line Insp.	1157
Total Eng Time	1057		

Inspected engine in accordance with DA 40 and Lycoming 100 hour inspection procedures. Drained oil. Removed filter, cut open, inspected it & inlet screen for contamination none found. Installed new CH48110-1 filter and added 7 qts of Phillips XC 20W50 oil. Checked compression (#1-77/80, 2-78/80, 3-78/80, 4-77/80). Cleaned & serviced JR induction air filter element IAW JR instructions. Complies with Power Flow exhaust system ICA's, installed new #3 exhaust Header. Performed **magneto 500 hour** inspection, both mags, no parts required, reinstalled and timed. R&R copper crush seal at oil pressure probe. Ran engine for operational and leak checks, found idle high, reset IAW Diamond DA40 MM, found airworthy.

I certify that this Engine has been inspected in accordance with a Annual/100 hr inspection and were determined to be in airworthy condition.

Auth Sign & Cert. *Richard H. [Signature]* A&P 1759842 IA

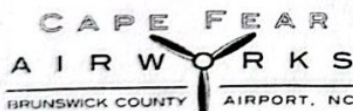


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Date: 12/11/15 N695DS Hobbs 1122.8 hrs.

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Serviced tires. Performed ground run/leak check. No defects noted.

Mechanic: *[Signature]* A&P3694900



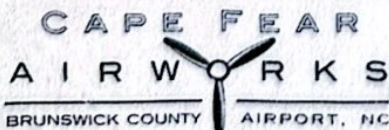
910-367-3344
www.CapeFearAirworks.com

N695DS	Eng Model IO-360-M1A	Eng S/N L-33782-51E	Annual due Apr-17
Date	1-Apr-16	Recurring AD's	Due
Current Tach:	1147.0	AD15-19-07 fuel injection line insp	1247.0
Total Eng Time: estimated	1147.0		

Inspected engine DA40 MM section 5-28-50. AD15-02-07 N/A due to engine model. AD15-19-07 fuel injection line inspection, found airworthy. Drained oil. Removed filter, cut open and inspected for contamination none found. Inspected inlet screen no findings. Installed new CH48110-1 filter and added 7 qts of Phillips XC 20W50 oil. Checked compression (#1-78/80, 2-71/80, 3-77/80, 4-74/80). Serviced induction element IAW JR Filter instructions. Inspected & serviced Powerflow exhaust IAW ICAs & installed new Powerflow exhaust pipe liner. Installed new set UREM38E spark plugs. Ran engine for dynamic balancing to .05 IPS using Dynavibe, operational and leak checks found airworthy.

I certify that this Engine has been inspected in accordance with a 100 hr inspection and were determined to be Airworthy.

Auth Sign & Cert. *Richard H. [Signature]* A&P 1759842 IA



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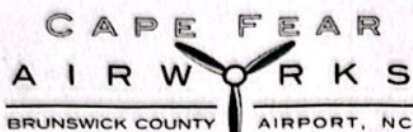
Date: 8/15/16 N695DS Hobbs 1207.6 hrs.

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Installed new set of spark plugs, UREM38S. Serviced tire pressures. Performed ground run/leak check, found airworthy.

Mechanic: *Richard H. [Signature]* A&P1759842

MAINTENANCE RECORD

6

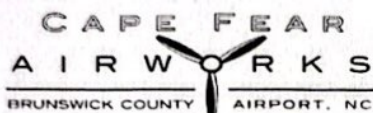


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Date: 8/18/16 N695DS Hobbs1208.1 hrs.

Due to intermittent excessive mag drop removed RT mag opened, inspected. Installed new distributor block assembly P/N K3822, verified internal timing and assembled mag, Work performed IAW Unison L-1037 manual. Installed mag and timed to engine IAW data plate. Performed ground run/leak check, found airworthy.

Mechanic: *Richard H. Smith* A&P 1759842



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N695DS	Eng Model	IO-360-M1A	Eng S/N	L-33782-51E	Annual due	Oct-17
Date		25-Oct-16		Recurring AD's		Due
Current Tach:		1251.9		AD15-19-07 fuel injection line insp		1361.9
Total Eng Time: estimated		1251.9				
Inspected engine IAW DA40 MM section 5-28-50. AD15-19-07 fuel injection line inspection, found airworthy. Drained oil. Removed filter, cut open and inspected for contamination none found. Inspected inlet screen no findings. Installed new CH48110-1 filter and added 7 qts of Phillips XC 20W50 oil. Checked compression (#1-75/80, 2-79/80, 3-76/80, 4-77/80). Serviced induction element IAW JR Filter instructions. Inspected & serviced Powerflow exhaust IAW ICAs & installed new Powerflow exhaust pipe liner. #1 cylinder IB exhaust stud came out with nut removal, Installed new standard size stud P/N 31C-12. Engine AD list updated 10/24/2016. Performed run up for operational and leak checks found airworthy.						
I certify that this Engine has been inspected in accordance with a 100 hr inspection and were determined to be Airworthy.						
Auth Sign& Cert.		<i>Richard H. Smith</i>		A&P 1759842 IA		




N#: N695DS
Model: IO-360-M1A
Date: 12-13-2016

MFG: Lycoming
S/N: L-33782-51E
Tach: 1302.1

SeaHawk Aviation, Inc

Removed CH48110-1 and inspected, no defects noted, installed CH48110-1 and added 8 qts of Philips 66 20W50. Oil analysis taken using AvLab. Engine run complied with no leaks noted.

Sign/Date: *[Signature]* 375511AP

BLUE LINE  TECHNICAL SERVICES		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		(919)578-3728
Make: Diamond		Model: DA-40		Engine
Reg. No. N695DS		2/28/2017		
IO-360-M1A		Model No.: 40.856		
		Hobbs: 1658.4	Tach: 1351.7	
Work Performed: Oil change Performed. Drained oil. Removed and inspected oil filter. No metal noted. Installed new filter AA48110-2 and serviced with 7 qts of Phillips X/C 20W50. C/W AD 2015-19-07 by inspection. Ground run and leak check normal.				
Marvin Urbina A&P 3058704 IA		<i>[Signature]</i>		2/28/2017
Name/ Certificate No.		Signature		Date

ENGINE SERVICE AND

CAPE FEAR
AIRWORKS
BRUNSWICK COUNTY AIRPORT, NC

910-367-3344 www.CapeFearAirworks.com

Date: 4/26/17 N695DS TTIS 1399.56 hrs.

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. complied with AD15-19-07 by inspection of fuel injection lines and clamps, found airworthy. Performed general inspection of engine compartment, Installed missing baffle screw #4 cylinder and torqued lose baffle screw #2 cylinder. Performed ground run/leak check, found airworthy.

Mechanic: Richard H. [Signature] A&P4759842

SeaHawk Aviation, Inc.
N#: 695DS (Engine)
Date: 5-10-2017
Tach: 1399.8

Starting malfunction: Replaced with new starter PN 149-24LS SN: H-R040928. Operational check out good no defects noted
All maintenance was complied with by manufactures maintenance manuals.

Sign/Date: [Signature] Cert: 3795511AP

SeaHawk Aviation, Inc.
1501 John Morris Road
Wilmington, NC 28405
(910) 859-8877

N: 695DS Model: DA 40
Date: 8/21/17 S/N: 40.865
WO: 1217 Tach: 1502.8

Oil Change Service: Removed and Installed Champion Oil Filters, P/N CH48110-1. Cut open filter and inspected with no discrepancies found. Serviced engine with 8 qts each of Phillips 66 20w50. Tested. No Leaks. Complied with AD15-19-07 by inspection of fuel injection lines and clamps. Found Airworthy.

Signature: [Signature] Cert: 3795511AP

SeaHawk Aviation, Inc.
<https://seahawkaviation.com>
(910) 859-8877

N:	695DS	Model:	DA40-180
Date:	10/6/17	S/N:	40.865
WO:	1241	Hubbs:	1553.2

VC TACH

Engine IO-360-M1A SN: I-33782-51E Total Eng time - 1553.2 TSO - 1553.2
Performed 100HR/Annual Inspection IAW Beech Checklist and FAR Part 43 Appendix D, scope and detail.
See AD report for information on Airworthiness Directives.

- Performed 100HR/Annual Inspection IAW Beech Checklist and FAR Part 43 Appendix D, scope and detail. See AD report for information on Airworthiness Directives.
- Compressions 1/76, 2/78, 3/46, 4/74 all over 80 psi. Replaced cylinder #3
- Replaced Cylinder #3 with serviceable unit from triad. No Ads apply to cylinder at this time
- Complied with Magneto 500 HR inspection next due at 2053.2
- Complied with power flow exhaust inspection and lubed IAW continued air worthiness inspection checklist

I certify this Engine has been inspected IAW an Annual/100HR inspection and was found to be in an AIRWORTHY condition at this time and is approved to return to service.

Signature: [Signature] Cert: 3795511AP

Signature: [Signature] Cert: A&P3620974IA

TOTAL THIS

TOTAL FR
PREVIOUS SUM

TOTAL
SINCE MF

HOBBS AD/MAINT
+ 50.7 QW
MAINT
(OIL/NEED
BATTERY)

MAINTENANCE RECORD

7

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

SIGNATURE


LICENCE
NUMBER



SeaHawk Aviation, Inc
<https://seahawkaviation.com>
(910) 859-8877

N:	695DS	Model:	DA 40
Date:	12.27.17	S/N:	40-865
WO:	1313	Tach:	1601.4

Oil Change Service: Removed and Installed Champion Oil Filter, P/N CH48110-1. Cut open filter and inspected with no discrepancies found. Serviced engine with 7 Qts each of Aeroshell 15W-50. Tested. No Leaks. Complied with AD 2015-19-07 checked ok. Inspect again within 110hrs.

Signature: 

Cert: 3859090AP



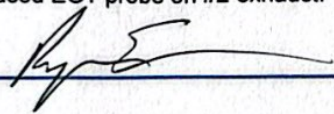
SeaHawk Aviation, Inc
<https://seahawkaviation.com>
(910) 859-8877

N:	695DS	Model:	DA40-180
Date:	2/13/2018	S/N:	40.865
WO:	1345	TACH:	1647.3

Engine IO-360-M1A SN: L-33782-51E Total Eng time - 1647.3

- Oil Change Service: Removed and Installed Champion Oil Filters, P/N CH48110-1. Cut open filter and inspected with no discrepancies found. Serviced engine with 7 Qtrs. each of Phillips 20W-50, Tested. No Leaks.

- AD 2015-19-07 CW by inspection next due at TACH 1747.3
- Replaced EGT probe on #2 exhaust.

Signature: 

Cert: 3795511AP/IA



SeaHawk Aviation, Inc
<https://seahawkaviation.com>
(910) 859-8877

N:	695DS	Model:	DA-40
Date:	04/16/18	S/N:	40.865
WO:	1390	Tach:	1700.0

Oil Change Service: Removed and Installed Champion Oil Filters, P/N CH-48110-1. Cut open filter and inspected with no discrepancies found. Serviced engine with 7 Qts each of Phillips 20w-50. Tested. No Leaks.

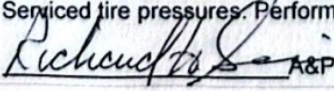
Signature:  Cert: 3859090-AP

**CAPE FEAR
AIRWORKS**
BRUNSWICK COUNTY AIRPORT, NC

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Date: 5/24/18 N695DS Hobbs1747.1 hrs.

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Serviced tire pressures. Performed ground run/leak check, found airworthy.

Mechanic:  A&P1759842

ENGINE SERVICE AND

AIR WILMINGTON

Date: 8/07/2018; Aircraft: N695DS; Type: DA 40; S/N: 40.865; Hobbs: 2307.6; Total Time:; Engine - Type: , S/N:; Time:; Prop - Type: , S/N:; Time:

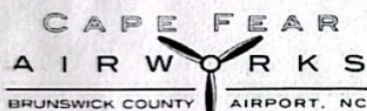
Shop Order #: NRS-15742

- 1- Performed engine oil and filter change. Ran engine, drained oil and removed filter. Cut open filter, spread filter media out, visually inspected and ran a magnet over the media. No metal particles found. Installed new filter p/n CH48110-1. Lubricated gasket with DC-4, torqued to 17 ft. lbs and safetied. Serviced engine with 8 quarts of Phillips 20W50 oil. Performed Ground run: Operational and leak checked completed satisfactorily. Verified oil quantity after run.
- 2- Complied with AD 2015-19-07. Next due in 100 hours.
- 3- Inspected exhaust system and lower cowling.

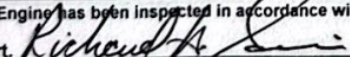
With respect to the work performed the engine is approved for return to service. Pertinent details are on file under the work order stated above. Dated: 8/7/2018

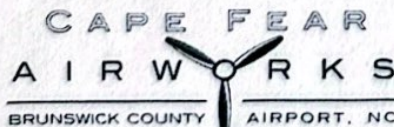
Name: James Buchanan Signature:  Cert# A&P 3694884

Air Wilmington P.O. Box 1930, Wilmington, NC 28402 Phone: 910-763-2502



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N695DS	Eng Model	IO-360-M1A	Eng S/N	L-33782-51E	Annual due	Nov-19
Date		8-Nov-16				Due
Current Tach:		1825.8		Recurring AD's		
Total Eng Time: estimated		1825.8		AD15-19-07 fuel injection line insp		1935.8
<p>Inspected engine IAW DA40 MM section 5-28-50. AD15-19-07 fuel injection line inspection, found airworthy. AD17-16-11 rod bushing N/A due to engine S/N not listed in MSG632B table 1 and no parts listed in table 2 have been changed. Drained oil. Removed filter, cut open and inspected for contamination none found. Inspected inlet screen no findings. Installed new CH48110-1 filter and added 8 qts of Phillips XC 20W50 oil. Checked compression (#1-76/80, 2-78/80, 3-78/80, 4-63/80). Due to 15 PSI spread in compressions and aural bypass noted by exhaust valve, inspected #4 exhaust valve IAW Lycoming SB388C no findings, borescoped cylinder with no findings on valve or seat, requires recheck at 10 hours of flying time. Adjusted mag timing IAW data plate. Serviced induction element IAW JR Filter instructions. #1 cylinder IB exhaust stud came out with nut removal. Installed new standard size stud P/N 31C-12. Engine AD list updated 11/1/2018. Performed run-up for operational and leak checks, adjusted idle & mixture, found airworthy.</p>						
<p>I certify that this Engine has been inspected in accordance with a 100 hr inspection and were determined to be Airworthy.</p>						
Auth Sign& Cert.				A&P1759842IA		



910-367-3344 www.CapeFearAirworks.com	
Date: 12/3/18	N695DS
Tach: 2363.6 hrs. Hobbs	

#4 cylinder failed recheck for compression, Installed IAW Lycoming Overhaul manual, serviceable, repaired Lycoming cylinder P/N LW 12472. Cylinder, piston, rings and attaching parts & seals provided by Triad Aviation under WO 24498. Serviced engine with 8 quarts of Phillips 20W50 M mineral oil. Performed run-up for leak and operational checks. Performed dynamic balance of propeller engine mass, using Dyna-Vibe equipment, by installing standard AN bolts, nuts & washers on the flywheel, initial run .7 IPS, final resolution .07 IPS. Aircraft is airworthy.

Mechanic:  A&P1759842

PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

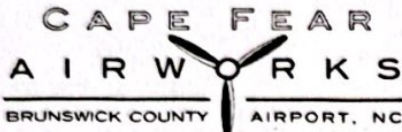
MAINTENANCE RECORD

8

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

SIGNATURE

LICENCE
NUMBER



910-367-3344 www.CapeFearAirworks.com

Date: 01/25/2019 N695DS TACH 1876.8 hrs.

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Performed ground run/leak check, found airworthy.

Mechanic: *[Signature]* A&P3852610

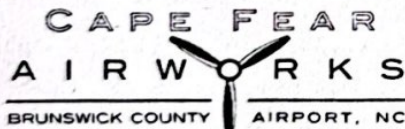
AIR WILMINGTON

Date: 2/08/2019; Aircraft: N695DS; Type: DA 40; S/N: 40.865; Hobbs: 2427.2; Total Time:; Engine - Type: , S/N:, Time:; Prop - Type: , S/N:, Time:

Shop Order #: NRS-16140

Replaced starter P/N149-24LS S/N H-R040928 with new starter of the same P/N, S/N H-S091089. Performed ops check/ ground run, no defects noted. Ref ; Diamond MM DA-40 80-00-00. With respect to the work performed the powerplant is approved for return to service. Pertinent details are on file under the work order stated above. Dated:2/08/2019.

Name: Zachery T. Lopez Signature: *[Signature]* Cert# A&P3886811
Air Wilmington P.O. Box 1930, Wilmington, NC 28402 Phone: 910-763-2502

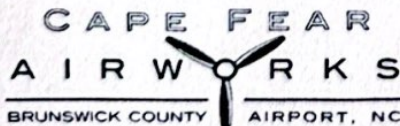


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Date: 3/29/19 N695DS Hobbs 1923.9

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Inspected fuel injection system IAW AD15-19-07, found airworthy. Checked compressions #1-70/80, #2-72/80, #3-79/80, #4-77/80. Cleaned & checked spark plug gap. Performed general visual inspection of engine. Performed ground run/leak check, found airworthy.

Mechanic: *[Signature]* A&P1759842



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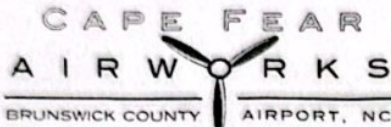
Date: 08/07/2019 N695DS TACH 1980.8 hrs.

Drained oil, removed, cut, inspected filter, no defects noted. Performed AD 15-19-07 inspection for fuel injector lines. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Performed ground run/leak check, found airworthy.

Mechanic: *[Signature]* A&P3852610

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

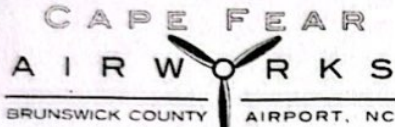


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Date: 10/28/2019 N695DS TACH 2025.1 hrs.

Starter failed, Removed model 149-24LS s/n H-S091089 and installed new starter model 149-24LS s/n H-T072528. Performed ops check, found airworthy.

Mechanic: *Richard H. Senior* A&P3852610

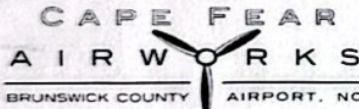


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Date: ~~08/07/2019~~ 11/11/2019 N695DS TACH 2034.0 hrs.

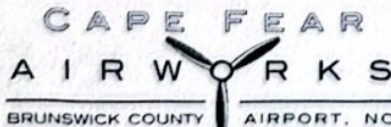
Inspected tires, wheel & brakes, found airwothy. Installed new fastener receptacle for winterization plate. checked nose wheel fork tension and adjusted IAW DA40 MM. Installed new #2 GPS antenna, removed P/N 013-00235-00, S/N 23079, Installed GPS antenna GA-35, P/N 013-0035-00, S/N 177875, checked operation of effected systems, found airworthy.

Mechanic: *Richard H. Senior* A&P1759842



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www.CapeFearAirworks.com

N695DS	Eng Model	IO-360-M1A	Eng S/N	L-33782-51E	Annual due	31-Dec-20
Date		12-Dec-19		Recurring AD's		Due
Current Tach:		2043.3		AD15-19-07 fuel injection line insp		2153.3
Total Eng Time: estimated		2043.3				
Inspected engine IAW DA40 MM section 5-28-50. AD15-19-07 fuel injection line inspection, found airworthy. AD17-16-11 rod bushing N/A due to engine S/N not listed in MSG632B table 1 and no parts listed in table 2 have been changed. Drained oil. Removed filter, cut open and inspected for contamination none found. Inspected inlet screen no findings. Installed new CH48110-1 filter and added 8 qts of Phillips XC 20W50 oil. Checked compression (#1-77/80, 2-76/80, 3-76/80, 4-76/80). Serviced induction element IAW JR Filter instructions. Tightened & re-safetied dipstick housing. Performed magneto 500 hour inspections IAW 4300/6300 MM/OH manual, no findings, reset start points, internal timed, reinstalled with new gaskets & timed to engine IAW data plate. Installed Tanis pre-heat system P/N TSO4CYL-2925-115, S/N 54747 IAW STC SE3232CH installation instructions, See 337 in engine/aircraft records for details. Performed run-up for operational and leak checks, adjusted idle & mixture, found airworthy.						
I certify that this Engine has been inspected in accordance with a 100 hr inspection and were determined to be Airworthy.						
Auth Sign& Cert. <i>Richard H. Senior</i>		A&P1759842IA				



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Date: 10/21/2020 N695DS Tach: 2144.3

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips XC 20w-50 oil. Inspected fuel injection system IAW AD15-19-07, found airworthy. Checked compressions #1-77/80, #2-77/80, #3-77/80, #4-77/80. Cleaned & checked spark plug gap. Performed general visual inspection of engine. Performed ground run/leak check, reset idle/mixture IAW MM, found airworthy.

Mechanic: *Richard H. Senior* A&P1759842

PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

Mechanic: L. Chow A&P1759842

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

**BROUGHT
FORWARD**

[illegible]

Triad Aviation, Inc.
FAA Repair Station #PP4R448M
3439 South Aviation Drive
Burlington, NC 27215
Telephone (336) 227-1467

NAME LILLY HENRY HOLDINGS LLC
ADDRESS 1919 VERRAZZANO DR
WILMINGTON, NC 28405

(910)-398-7778		INVOICE / WORK ORDER
EMAIL EMAIL	zachary.piechowski@lycoming.com	NO. 26117
MAKE	LYCOMING	DATE 1/7/2021
MODEL	IO-360-M1A	WRITTEN BY B.M.B.
REGISTRATION NO.	N695DS	P.O. NO.
SERIAL NO.	L-33782-S1P	TOTAL TIME 2210

INSTRUCTIONS/WORK DESCRIPTION

Overhaul Lycoming IO-360-M1A Engine S/N L-33782-51E.
Overhauled and test run.
Crankshaft - P/N 15M23455 - Repaired by ACS (WO# 264231)
Cylinders - P/N 05K21104 - New from Lycoming (Lot# MS-544161)
Magnetos - P/N 4370 S/N 21021200 & 4347 S/N 20030590 - New from Champion
Servo - P/N 2576564-1 S/N 720HMM01 - Overhauled by PAM (WO# J0HMD)
Fuel Divider - P/N 2576564-1 S/N A0930710 - Overhauled by PAM (WO# J0GVF)
Nozzles - P/N (4) 25248464-2 - Overhauled by PAM (WO# J0GDN)
CW 96-09-0 C dated 8/7/15/1996 To prevent oil pump failure due to impeller failure CW per SB 324 Installed gears P/N LW-18109 & LW-18110 CW 96-23-03 dated 12/7/1996 To prevent an inflight engine failure due to fuel starvation CW Installed new fuel pump P/N LW-15473 S/N 0121L0044 CW 2004-10-14 C To prevent loosening or failure of the crankshaft gear retaining bolt CW per SB 475C CW 2015-02-07 dated 8/31/2015 To prevent the propeller governor shaft set screw from coming loose CW per SI 1343B CW 2015-19-07 dated 11/03/2015 To prevent failure of the fuel injector fuel lines CW per SB 342G

This engine and/or component is approved for return to service. All pertinent details on file this repair station. TRIAD AVIATION, INC. FAA REPAIR STATION # PP4R448M.

Signed: Albina K. Keldner Date 03/01/2021

I hereby authorize the following work to be done along with the necessary material, and hereby grant you and/or your employees permission to operate and fly the aircraft herein described for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on above aircraft to secure the amount of repairs thereto.

You will not be held responsible for loss or damage to the aircraft or articles left in the aircraft in case of fire, theft, or any other cause beyond your control.

ENGINE OVERHAUL

TOTAL PARTS	1
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MISCELLANEOUS

ENGINE TRANSPORTATION

TAX

TOTAL	
-------	--

TRIAD AVIATION, Inc. certifies that this engine has been disassembled, inspected, and overhauled to manufacturer's overhaul manual new limits. Engine tested in accordance with recommended procedures and is approved for return to service. All applicable A.D. Notes are complied with at the time of overhaul. Pertinent details of this work are on file at this repair station under work order # 26117

DATE 03/01/2021

MAKE LYCOMING

MODEL IO-360-M1A

S/N L-33782-51E

ENGINE TOTAL TIME 2210.7

TSMOH 0.0

TBO 2000

**TRIAD
AVIATION**

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

Thomas. K. Shue
Authorized Signature

03/01/2021

Date _____

Test Ran Lycoming IO-360-M1A Engine Serial Number L-33782-51E for 2 hours 15 minutes, RPM 2700, oil pressure 80 lbs, oil temperature 191 degrees, CHT 326. Magneto check at 2100 RPM, L 125 RPM, R 125 RPM. Compression test cylinder #1 79/80 #2 78/80 #3 80/80 #4 78/80. This engine and/or component is approved for return to service. All pertinent details on file at this repair station: TRIAD AVIATION, INC. FAA REPAIR STATION# PP4R448M. WO# 26117
Signed: John W. Heston Date: 03/01/2021

TOTAL SINCE MFG.		
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MAINTENANCE RECORD

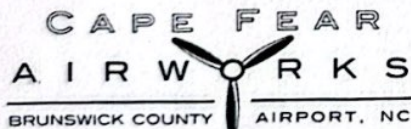
10



910-367-3344
www.CapeFearAirworks.com

N695DS	Eng Model	IO-360-M1A	Eng S/N	L-33782-51E	Annual due	3/31/2022
Date	3/17/2021		Recurring AD's		Due	
Current Tach:	2210.7		AD15-19-07 fuel injection line insp		2320.7	
Total Eng Time:	2210.7					
Engine TSO:	0.0					
R&R engine IAW Diamond DA40-180 MM procedures, for overhaul by Triad Aviation under WO#26117. Inspected engine IAW DA40 MM section 5-28-50. AD15-19-07 fuel injection line inspection, found airworthy. Test cell compression (#1-79/80, 2-78/80, 3-80/80, 4-78/80). Installed new CH48110-1 filter & serviced with 8 qt Phillips 20W50M oil. Performed run-up for operational and leak checks, adjusted idle & mixture, found airworthy.						
I certify that this Engine has been inspected in accordance with a 100 hr/annual inspection and were determined to be Airworthy.						
Auth Sign& Cert. <i>Richard A. Smith</i>			A&P1759842IA			

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		Engine	
919-578-3728					
Make: Diamond	Model: DA40	Serial No: 40.865	Tach:	2272.9	
Reg. No: N695DS	Eng Model: Lycoming IO-360-M1A	Eng Serial: L-33782-51E	Total Time:	2272.9	
WORK PERFORMED:		SMOH 62.2	Hobbs: 2942.3	ETT:	2272.9
Performed prebuy inspection using checklist provided by Lifestyle Aviation. Performed compression test, results were as followed: #1 - 75, #2 - 72, #3 - 74, #4 - 71, all above 80 psi. Performed 50 hour oil change. Drained engine oil, serviced with 7qts Phillips 20W50XC. Replaced oil filter (P/N: AA48110-2). C/W AD15-19-07, good at this time, next due at 2382.9TT. Resafetied oil filler neck. Tightened #2 EGT probe. Ground run and leak check good.					
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>		5/12/2021	
Name/ Certificate No.		Signature		Date	



910-367-3344 www.CapeFearAirworks.com


Date: 7/9/2021 N695DS Tach: 2333.0

Drained oil, removed, cut, inspected filter, no defects noted. Installed new CH48110-1 filter and 8 quarts of Phillips 20w-50XC oil. Inspected fuel injection system IAW AD15-19-07, found airworthy. Checked compressions, found within limits. Cleaned plugs & checked gap. Adjusted mag to engine timing both mags, to data plate spec. Repositioned prop governor control cable to allow full travel for max RPM. Performed general visual inspection of engine. Performed ground run/leak check, reset idle/mixture IAW MM, found airworthy.

Mechanic: *Richard A. Smith* A&P1759842

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

 Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		Engine	
Make: Diamond	Model: DA40	Serial No: 40.865	Tach: 2404.2
Reg. No: N695DS	Eng Model: Lycoming IO-360-M1A	Eng Serial: L-33782-51E	Total Time: 2404.2
WORK PERFORMED:		SMOH 193.5	Hobbs: 3121.1
			ETT: 2404.2
Performed oil change, replaced filter with new (P/N: AA48110-2). Drained oil and serviced with 7Qts Philips 20W-50 XC. Removed, cleaned, inspected, and reinstalled sparkplugs. AD 15-19-07 C/W IAW Lycoming MSB No, 342G, dated July 16, 2013. Next due at 2514.2TT.			
Rachel Weindt A&P 3889290	<i>Rachel Weindt</i>		10/6/2021
Name/ Certificate No.	Signature		Date

AIR WILMINGTON

Date: 12/02/2021; Aircraft: N695DS; Type: DA 40; S/N: 40.865; Hobbs: 3188.4; Total Time:: LG Cycles::
 Engine - Type: , S/N:, Time:: Prop - Type: , S/N:, Time: **TACH 2453.6**

Shop Order #: NRS-18385

Recovered oil sample for analysis

Performed engine oil and filter change. Ran engine, drained oil and removed filter. Cut open filter, spread filter media out, visually inspected and ran magnet over the media and lubricated gasket with new oil. I/AW Diamond Aircraft MM 72-01-00 Page:201-207. No metal particles found. Installed new filter p/n AA48110-2. Torqued to 17 ft. lbs and safetied. Serviced engine with 8 quarts of Phillips 66 SAE 20W-50 oil I/AW Diamond Aircraft Flight Manual Chapter: 2 Page: 6. Performed Ground run: Operational and leak checked completed satisfactorily. Verified oil quantity after run.

With respect to the work performed the engine is approved for return to service. Pertinent details are on file under the work order NRS-18385.

Name: Steven Deak Signature: *Steven Deak* Cert# A&P: 4502744

Air Wilmington P.O. Box 1930, Wilmington, NC 28402 Phone: 910-763-2502

AIR WILMINGTON

Date: 2/21/2022; Aircraft: N695DS; Type: DA 40; S/N: 40.865; Hobbs: 3261.5; Total Time:: LG Cycles::
 Engine - Type: , S/N:, Time: 3261.5; Prop - Type: , S/N:, Time: **TACH TIME: 2505.7**

Performed engine oil and filter change. Installed new filter p/n CH48110-1. Serviced engine with 8 quarts of X/C 20W 50 oil. Operational and leak check good. Verified oil quantity after run. IAW Diamond DA 40 NG AMM 72-00-00 paragraph 2. and 79-00-00 paragraph 1.

CW AD 2015-19-07 Lycoming externally mounted fuel injection lines, Amendment 39-18269 Nov 03, 2015. Inspected the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles IAW Lycoming Engines MSB No.342G, dated July 16, 2013. No defects noted. Due every 100 hours or any time fuel lines or clamp have been disconnected, moved, or loosened. Next due at 3,361.5 Hobbs time.

Performed 100 hr drain inspection IAW Diamond DA 40 NG AMM section 05-25-00. No defects noted

With respect to the work performed the Aircraft is approved for return to service. Pertinent details are on file under the work order NRS-18570.

TOTAL

TOTAL
PREVIOUS

Name: Jacob Pups Signature: *Jacob Pups* Cert# A&P 3986643

TC
SINC

Air Wilmington P.O. Box 1930, Wilmington, NC 28402 Phone: 910-763-2502

MAINTENANCE RECORD

11



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

LICENCE
NUMBER

Manufacturer: Lycoming Div Avco Corp Textron
Part/Model number: IO-360-M1A
Work Order No: NCRS-13400

TSN/TSO: 2,532.20 / 321.50
Serial Number: L-33782-S1E
Date: 04/29/2022

Tail # N695DS

Performed Annual Inspection IAW CFR14.43 Appendix D and Diamond Annual Inspection checklist found in DA-40 AMM 28-20-00 and Lycoming IO-360-M1A EMM. Took Oil Sample IAW Lycoming IO-360-M1A EMM and processed and shipped sample IAW GA-001 AvLab instructions. Performed engine oil and filter change. Ran engine, drained oil and removed filter. Cut open filter, spread filter media out, visually inspected and ran a magnet over the media. No metal particles found. Installed new filter p/n CH-48110-1. Lubricated gasket with DC-4, torqued to 17 ft. lbs and safetied. Serviced engine with 8 quarts of X/C 20W-50 oil. Performed check of Mag timing found within limits. Performed Compression Check with the following results: #1- 73/80, #2-40/80, #3- 75/80, and #4- 62/80. #2 Cylinder P/N 30080-01 S/N TA27243 removed and sent to Triad Aviation, Inc. RS#PP4R448M W.O. 27243 for repair. Received and installed #2 Cylinder P/N 30080-01 S/N TA27243 IAW Lycoming IO-360-M1A EMM. Performed Post Inspection engine runs and leak checked cylinder no defects noted. Performed compression check with 75/80 psi. Inspected after check flight, no defects noted. AD's complied with to date. Reference AD report. AD 2015-19-07 C/W by inspection of fuel injection lines, next due at Tach: 2632.2.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-13400 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed Christoph J. Kopp
(Signature of Authorized Representative)
for Modern Aviation

A& P# 3718200JA

Date 4/29/22



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-13769

Total AC Time: 3,376.3
Aircraft Serial Number: 40.865
Date: 08/15/2022

Total AC Cycles:

Squawk

1.1 Oil change due. Drained oil and removed filter. Installed new filter p/n CH48-110-1. Serviced engine with 8 quarts of Phillips X/C 20W-50 oil. Performed Ground run: Verified oil quantity after run IAW DA40 M.M. 79-02-00. OPs and Leak Check Good.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-13769 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed B. Westphal
(Signature of Authorized Representative)
for Modern Aviation

A& P# 3551952

Date 8-15-22



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-13854

Total AC Time: 2,630.6
Aircraft Serial Number: 40.865
Date: 09/15/2022

Total AC Cycles:

Hobbs time: 3439.2

Squawk

1.1 REPLACED ENGINE OIL AND OIL FILTER ELEMENT IAW DIAMOND DA40 M.M. SECTION - 79 - 00, AND LYCOMING 10 - 360 - M1A ENGINE M.M. SECTION - 79. CUT OPEN AND INSPECTED FILTER ELEMENT, NO METAL CONTAMINATES FOUND. OPS/LEAK CHECK GOOD. NO LEAKS NOTED AT THIS TIME.

1.2 C/W DIAMOND 100HR DRAIN HOLE INSPECTION IAW DIAMOND DA40 AMM 05-25-00. NO DEFECTS NOTED AT THIS TIME.

1.3 COMPLIED WITH AD 2015-19-07 FUEL INJECTOR LINES AND CLAMPS INSPECTION BY PERFORMING VISUAL INSPECTION IAW LYCOMING SERVICE BULLETIN 342G. NO DEFECTS NOTED AT THIS TIME.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-13854 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed B. Westphal
(Signature of Authorized Representative)
for Modern Aviation

A& P# 3551952

Date 9-15-22

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS **Hours: 3,533.2** Total AC Time: 2,676.1 Total AC Cycles:
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40 Aircraft Serial Number: 40.865
Work Order No: NCRS-13929 Date: 10/12/2022

Squawk

- 1.3 CUSTOMER REQUESTS 50HR OIL CHANGE, PERFORMED ENGINE RUN, AND DRAINED OLD OIL, AND REMOVED OLD OIL FILTER, FILLED ENGINE WITH AEROSHELL 15W-50 OIL, AND INSTALLED NEW OIL FILTER P/N: CH48110-1. LEAK CHECK PERFORMED WITH NO DEFECTS FOUND. ALL WORK WAS DONE I/A/W DIAMOND DA-40 AMM 12-10-00
- 1.4 CUSTOMER REQUESTED L/H MLG BE INSPECTED AND ROTATED ON RIM IF OK. FOUND SMALL PATCHES OF CHORD SHOWING ON TIRE, DISSASSEMBLED WHEEL ASSEMBLY AND REMOVED OLD TIRE P/N: 072-449-0 S/N: 8284500105. REASSEMBLED WHEEL HALVES AND INSTALLED NEW TIRE P/N: 156E66-4 S/N: 20780007. TORQUED WHEEL HALVES TO 150IN/LBS AND INFLATED TIRE TO 41PSI. OPERATIONAL AND LEAK CHECK PERFORMED WITH NO DEFECTS FOUND. ALL WORK WAS DONE I/A/W DIAMOND DA-40 AMM 32-40-00

The aircraft, airframe, appliance, or article identified in Work Order NCRS-13929 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A& P# 4502744

Date 10/12/22



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS Total AC Time: 2,696.6 Total AC Cycles:
Manufacturer: DIAMOND AIRCRAFT IND INC Hour Meter: 3,529.00
Part/Model number: DA40 Aircraft Serial Number: 40.865
Work Order No: NCRS-13977 Date: 10/28/2022

Squawk

- 1.3 CUSTOMER REPORTS ELECTRIC FUEL PUMP INOP. PERFORMED ENGINE RUN AND TEST VARIOUS THROTTLE CONFIGURATIONS AND FOUND FUEL PRESSURE TO BE WITHIN SPECIFICATIONS. REMOVED AND CLEANED GASCOLATOR AND FUEL FILTER WITH NO DEFECTS FOUND, THEN REASSEMBLED AND RESAFTED ONTO AIRCRAFT. TESTED ELECTRIC FUEL PUMP AND FOUND THE FUEL PRESSURE TO BE INSUFICIENT AND NOT IN GREEN ARC. REMOVED OLD FUEL PUMP. P/N: 5100-00-9CJ; S/N: 4108. THEN INSTALLED NEW FUEL PUMP P/N: 5100-00-9CJ; S/N: 4568. OPERATIONAL AND LEAK CHECK GOOD WITH NO DEFECTS FOUND. ALL WORK WAS DONE I/A/W DIAMOND DA-40 AMM 28-20-00

The aircraft, airframe, appliance, or article identified in Work Order NCRS-13977 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A& P# 4502744

Date 10/28/22

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

MAINTENANCE RECORD

12

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

SIGNATURE

LICENCE
NUMBER



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-14081
Total AC Time: 2,724.6
Hour Meter: 3,570.90
Aircraft Serial Number: 40.865
Date: 12/01/2022
Total AC Cycles:

Squawk

- 1.1 PERFORMED ENGINE OIL AND FILTER CHANGE. DRAINED OIL, TOOK OIL SAMPLE AND REMOVED FILTER. INSPECTED WITH NO DEBRIS FOUND. INSTALLED NEW FILTER P/N AA48110-2. SERVICED ENGINE WITH 8 QUARTS OF PHILLIPS X/C 20W-50 OIL. PERFORMED GROUND RUN: PERFORMED GOOD OPS AND LEAK CHECK. VERIFIED OIL QUANTITY AFTER RUN. IAW DA40 AMM 79-02-00 PARA 3.
- 1.2 COMPLIED WITH AD 2015-19-07, MSB NO. 342G AND SUPPLEMENT NO. 1 TO MSB NO. 342G. NO ISSUES NOTED DURING THE INSPECTION EXCEPT MINOR CORROSION ON THE CLAMP SURFACE.
- 1.3 COMPLIED WITH DRAIN HOLE INSPECTION I/A/W 05-25, NO DEFECTS NOTED AIRCRAFT OK FOR SERVICE.
- 1.5 REMOVED L/H AND R/H FLAP INBOARD DAMAGED BONDING STRAPS, AND CREATED NEW BONDING STRAPS WITH NEW CRIMPED TERMINALS AND INSTALLED NEW TERMINALS ONTO AIRCRAFT. ALL WORK WAS DONE I/A/W AC 43.13-1B SECTION 15.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14081 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P # 4502744

Date 12/01/22



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-14096
Total AC Time: 2,726.8
Hour Meter: 3,575.80
Aircraft Serial Number: 40.865
Date: 12/13/2022
Total AC Cycles:

Squawk

- 1.2 PIREP: ENGINE RUNS ROUGH BELOW 2000RPM. RAN ENGINE AND VERIFIED ENG RUNNING ROUGH. REMOVED, CLEANED AND INSPECTED SPARK PLUGS. NO DEFECTS NOTED. RE-INSTALLED SPARK PLUGS. CHECKED MAGNETO TO ENGINE TIMEING AND FOUND TO BE WITHIN LIMITS. PERFORMED COMPRESSION CHECK AND FOUND #4 CYLINDER EXHAUST VALVE STICKING. SEE SQUAWK FOR #4 CYLINDER FOR CORRECTIVE ACTION. ALL WORK PERFORMED IAW DIAMOND DA40 MAINTENANCE MANUAL AND LYCOMING IO-360 MAINTENANCE MANUAL.
- 1.4 RH MAGNETO P/N: 4370 S/N: 21021200 FOR 500 HR INSPECTION. REINSTALLED RH MAGNETO AND TIMED TO ENGINE. PERFORMED OPS CHECK, OPS CHECK GOOD AT THIS TIME. ALL WORK DONE IAW DIAMOND DA40 MAINTENANCE MANUAL AND LYCOMING0320 MAINTENANCE MANUAL.
- 1.5 LH MAGNETO REQUIRES 500HR INSPECTION. REMOVED LH MAGNETO P/N: 4347 S/N: 20030590 FOR 500 HR INSPECTION. REINSTALLED LH MAGNETO AND TIMED TO ENGINE. PERFORMED OPS CHECK, OPS CHECK GOOD AT THIS TIME. ALL WORK DONE IAW DIAMOND DA40 MAINTENANCE MANUAL AND LYCOMING0320 MAINTENANCE MANUAL.
- 1.6 #4 CYLINDER EXHAUST VALVE STICKING. REQUIRES LYCOMING SI 1425A. COMPLIED WITH LYCOMING IO-360-M1A SERVICE INSTRUCTION 1425A OPERATIONAL AND LEAK CHECK GOOD WITH NO DEFECTS FOUND.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14096 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P # 4071028

Date 12/13/2022

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-14129
Total AC Time: 2,736.8
Hour Meter: 3,590.00
Aircraft Serial Number: 40.865
Date: 12/28/2022

Squawk

- 1.2 ALTERNATOR INTERMITTENT. PERFORMED ENGINE RUN OF AIRCRAFT AND FOUND ALTERNATOR TO BE DROPPING OFFLINE AND INOP. REMOVED ALTERNATOR, REPLACED ALTERNATOR BRUSHES WITH NEW. REINSTALLED ALTERNATOR, PERFORMED OPERATIONAL CHECK OF ALTERNATOR, WITH NO DEFECTS FOUND. ALL WORK WAS DONE I/A/W DIAMOND DA-40 AMM 24-30-00.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14129 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P# 4502744

Date 12/28/22



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-14199
Total AC Time: 2,773.0
Hour Meter: 3,636.80
Aircraft Serial Number: 40.865
Date: 01/11/2023

Squawk

- 1.2 PERFORMED ENGINE OIL AND FILTER CHANGE. DRAINED OIL, TOOK OIL SAMPLE AND REMOVED FILTER. INSPECTED WITH NO DEBRIS FOUND. INSTALLED NEW FILTER P/N AA48110-2. SERVICED ENGINE WITH 8 QUARTS OF PHILLIPS X/C 20W-50 OIL. PERFORMED GROUND RUN. PERFORMED GOOD OPS AND LEAK CHECK. VERIFIED OIL QUANTITY AFTER RUN.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14199 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P# 3986643

Date 11 Jan 23



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-14260
Total AC Time: 2,823.2
Hour Meter: 3,705.60
Aircraft Serial Number: 40.865
Date: 02/03/2023

Squawk

- 1.2 COMPLETED 50HR INSPECTION AND OIL CHANGE IAW AMM05-28-00. ADDED 8QTS PHILLIPS X/C 66 20W50 OIL AND OIL FILTER P/N: AA48110-2. LEAK CHECK GOOD.
1.3 COMPLIED WITH AD 15-19-07. NO DEFECTS NOTED AT THIS TIME.
1.4 INSPECTED DRAIN HOLES IAW AMM 05-25. NO DEFECTS NOTED AT THIS TIME.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14260 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P# 4457580

Date 2/3/23

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

13

Registration #: N695DS
Manufacturer: DIAMOND AIRCRAFT IND INC
Part/Model number: DA40
Work Order No: NCRS-14348
Total AC Time: 2,871.0
Hour Meter: 3,772.60
Aircraft Serial Number: 40.865
Date: 03/03/2023
Total AC Cycles:

Squawk

- 1.2 PERFORMED ENGINE OIL AND FILTER CHANGE. DRAINED OIL, TOOK OIL SAMPLE AND REMOVED FILTER. INSPECTED WITH NO DEBRIS FOUND. INSTALLED NEW FILTER P/N AA48110-2. SERVICED ENGINE WITH 8 QUARTS OF PHILLIPS X/C 20W-50 OIL PERFORMED GROUND RUN: PERFORMED GOOD OPS AND LEAK CHECK. VERIFIED OIL QUANTITY AFTER RUN. IAW IO-360-M1A MAINTENANCE MANUAL 72-50-08

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14348 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P# 3986643

Date 03Mar23



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: Lycoming Div Avco Corp Textron
Part/Model number: IO-360-M1A
Work Order No: NCRS-14455
TSN/TSO: N/A / N/A
Serial Number: L-33782-51E
Date: 04/05/2023
Hour Meter: 3,772.60
CSN/CSO: N/A / N/A

Squawk

- 2.1 PERFORMED OIL CHANGE IAW LYCOMING IO - 360 - M1A E.M.M. 72 - 50 - 08. OPS/LEAK CHECK GOOD.
2.2 COMPLIED WITH FUEL INJECTION LINE AD 2015-19-07. NO DEFECTS NOTED AT THIS TIME.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14455 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P# 3551952

Date 04-05-2023



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-763-0146
Email: ILMMX@modern-aviation.com

Registration #: N695DS
Manufacturer: Lycoming Div Avco Corp Textron
Part/Model number:
Work Order No: NCRS-14503
TSN/TSO: N/A / N/A
Serial Number: N/A
Date: 07/14/2023
Hour Meter: 2,952.20
CSN/CSO: N/A / N/A

Squawk

- 2.2 PERFORMED ANNUAL INSPECTION IAW DIAMOND DA40 AMM 5-28-00 TIME LIMITS AND MAINTENANCE CHECKS. COMPLIED WITH APPLICABLE AD'S, SEE INCLUDED AD REPORT
1) COMPRESSIONS 1) 77/80, 2) 77/80, 3) 68/80, 4) 61/80
2) REMOVED #2 CYLINDER FOR REPAIR, REFERENCE DON GEORGE #11689 REINSTALLED REPAIRED CYLINDER IAW LYCOMING OVERHAUL MANUAL.
3) ADJUSTED ALTERNATOR DRIVE BELT TENSION, IAW DA40 SERIES AMM 24 - 30 - 00
4) REPLACED FILTER WITH NEW AIR FILTER P/N: FR-08504. PER DIAMOND DA40 AMM 71-60-00
5) REMOVED OIL PRESSURE HOUSING, REMOVED GASKET AND REPLACED WITH NEW P/N: 06E19769-1.25. TORQUED AND SAFTIED OIL PRESSURE HOUSING PER LYCOMING EMM IO-360-M1A 72-60
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION

The aircraft, airframe, appliance, or article identified in Work Order NCRS-14503 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed [Signature]
(Signature of Authorized Representative)
for Modern Aviation

A&P# 2822299

Date 7-14-2023

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 →					
7/21/2023					During the annual inspection on 7/14/2023 (NCRS-14503) the engine oil and filter change was omitted inadvertently from the logbook entry. Engine oil was changed with 8 qts of Phillips 20W-50 X/C. AA48110-2 oil filter installed. No debris noted in old filter. Oil sample taken. S. P. IA 3537845

N Number
N695DS

Date 8/15/2023 TACH/HOBBS 3011.5

Log Entry

AFTT: 3011.5 Complied with AD 2015-19-07 fuel injection system inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3121.5. Refer to WO #G05415 on file at Dillon's Aviation, Inc.

William R. Renn
William R. Renn For Dillon's Aviation, Inc.
AP3579353IA

N Number
N695DS

Date 8/25/2023 TACH/HOBBS 3040.2

Log Entry

ESMOH 829.5
Changed engine oil and filter. Serviced with 7 qts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Refer to WO #G05429 on file at Dillon's Aviation, Inc.

Luke R. Baker
Luke R. Baker For Dillon's Aviation, Inc.
A4470198

N Number
N695DS

Date 10/13/2023 TACH/HOBBS 3168.5

Log Entry

ESMOH: 957.8 Changed engine oil and filter. Serviced with 7 qts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Retorqued oil filler neck and safety wired. Complied with 100 hour Power Flow Exhaust ICA, tightened and safety worm clamps, next due AFTT: 3268.5. Complied with AD 2015-19-07 fuel injection system by visual inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3278.5. Refer to WO #G05451A on file at Dillon's Aviation, Inc.

William R. Renn
William R. Renn For Dillon's Aviation, Inc.
AP3579353IA

TOTAL T

TOTAL FROM PREVIOUS

TO SINCE

INSPECTIONS, ANY LINES AS REQUIRED FOR COMPLETE	REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
7/14/2023 (NCRS-4503) was omitted inadvertently was changed with X/C 48110-2 oil filter installed. Oil sample taken. 7845	<p>N Number N695DS</p> <p>Date 12/1/2023</p> <p>TACH/HOBBS 3289.0</p> <p>Log Entry ESMOH: 1078.3 Changed engine oil and filter. Serviced with 7 qts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Complied with 100 hour Power Flow Exhaust ICA by visual inspection, next due AFTT: 3389.0. Complied with AD 2015-19-07 fuel injection system by visual inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3399.0. Refer to WO #G05498 on file at Dillon's Aviation, Inc.</p> <p><i>William R. Renn</i> William R. Renn For Dillon's Aviation, Inc. AP3579353IA</p>		
ection per T:	<p>N Number N695DS</p> <p>Date 1/3/2024</p> <p>TACH/HOBBS 3355.8</p> <p>Log Entry ESMOH: 1145.1 Changed engine oil and filter. Serviced with 7 qts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Performed Blackstone oil sample. Complied with 100 hour Power Flow Exhaust ICA by visual inspection, next due AFTT: 3455.8. Replaced #1 intake gasket PN 71973. Complied with AD 2015-19-07 fuel injection system by visual inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3465.8. Refer to WO #G05523 on file at Dillon's Aviation, Inc.</p> <p><i>William R. Renn</i> William R. Renn For Dillon's Aviation, Inc. AP3579353IA</p>		
50 oil and 429 on file	<p>N Number N695DS</p> <p>Date 3/11/2024</p> <p>TACH/HOBBS 3454.0</p> <p>Log Entry ESMOH: 1243.3 Changed engine oil and filter. Serviced with 7 qts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Complied with 100 hour Power Flow Exhaust ICA by visual inspection, no defects noted, visual inspection next due AFTT: 3554.0. Complied with AD 2015-19-07 fuel injection system by visual inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3564.0. Refer to WO #G05578 on file at Dillon's Aviation, Inc.</p> <p><i>William R. Renn</i> William R. Renn For Dillon's Aviation, Inc. AP3579353IA</p>		
Phillips X/C orqued oil ust ICA, with AD and to WO	<p>MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.</p>		

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					

N Number
N695DS

Date TACH/HOBBS
5/17/2024 3547.6

Log Entry

Complied with AD 2015-19-07 fuel injection system inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3657.6. Refer to WO #G05632 on file at Dillon's Aviation, Inc.

William R. Renn
William R. Renn For Dillon's Aviation, Inc.
AP3579353IA

Date	TACH/HOBBS	ESMOH	ETT
8/15/2024	3611.9	1401.2	3611.9

Eng Entry

Performed annual inspection on this engine in accordance with FAR 43 appendix D. Cleaned and gapped all spark plugs cleaned all air and fuel filters. Changed oil and filter. Serviced with 6 quarts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Performed Blackstone oil sample. Checked magneto points and timing. Performed compression check as follows: 1-74/80, 2-20/80, 3-75/80, 4-77/80. Replaced #2 cylinder with repaired Lycoming cylinder PN LW12427 SN TA29182, see Triad Aviation Form 8130-3 & WO #29182, post install compression 77/80. Replaced prop governor gasket PN MS9144-01. Replaced #1, #3, & #4 intake gaskets PN 71973. Replaced muffler packing with new PN PFS-8016. Checked and serviced all fluid levels, lubricated controls and washed engine. Checked applicable AD's for compliance to date. Performed all work in reference to Lycoming service manual and standard practice as listed in FAR part 43 to return this engine to service in airworthy condition. Refer to WO #G05698 on file at Dillon's Aviation, Inc.

*C/W AD 2015-19-07 Fuel injection system by visual inspection per par (e)(1)(ii) and Lycoming MSB342G, next due AFTT: 3721.9.

*C/W Power Flow Exhaust ICA, next due 08/2025 or AFTT: 4011.9.

John Tyler Griffin
John Tyler Griffin For Dillon's Aviation, Inc.
AP4110906IA



1817 Aviation Dr.
Wilmington, NC 28405
United States

Telephone: 910-505-9508
Email: ILMMX@modern-aviation.com

Registration #: N695DS	Total AC Time: 4,780.1	Total AC Cycles:
Manufacturer: DIAMOND AIRCRAFT IND INC	Hour Meter: 3,652.20	
Part/Model number: DA40	Aircraft Serial Number: 40.865	
Work Order No: NCRS-16042	Date: 09/11/2024	

Squawk

1.2 EXCESSIVE OIL ON BELLY, DETERMINE SOURCE. FOUND PROP GOVERNOR MOUNTING HARDWARE WAS LOOSE CAUSING OIL LEAK. RETORQUED ALL 4 NUTS TO 17FTS IAW DIAMOND D40 AMM 61-20. OPPS CHECK AND LEAK CHECK GOOD AT THIS TIME.

The aircraft, airframe, appliance, or article identified in Work Order NCRS-16042 was repaired and inspected in accordance with the current Regulations of the Federal Aviation Administration and is airworthy with respect to the maintenance, preventive maintenance, or alterations as described in the customer work order. Pertinent details of the maintenance actions are on file at this repair station under the above Work Order.

Signed *Charles C. C. C.*
(Signature of Authorized Representative)
for Modern Aviation

A&P# 4918777

Date 9/11/24

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

15

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

SIGNATURE

LICENCE
NUMBER

N Number
N695DS

Date TACH/HOBBS
10/15/2024 3718.2

Log Entry

Changed engine oil and filter. Serviced with 7 qts of Phillips X/C 20W/50 oil and filter PN AA48110-2. Ground ran, no leaks noted. Complied with AD 2015-19-07 fuel injection system by inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3828.2. Refer to WO #G05756 on file at Dillon's Aviation, Inc.

William R. Renn

William R. Renn For Dillon's Aviation, Inc.
AP3579353IA

N Number
N695DS

Date TACH/HOBBS
12/12/2024 3808.0

Log Entry

Changed engine oil and filter. Serviced with 7 qt of Phillips X/C 20W/50 oil and filter PN AA48110-2. Replaced #2 cylinder oil return hose. Ground ran, no leaks noted. Refer to WO #G05798 on file at Dillon's Aviation, Inc.

*C/W AD 2015-19-07 Fuel injection system by inspection per par (e)(1)(ii) and Lycoming MSB342G, no defects noted, next due AFTT: 3918.0.

*C/W Power Flow Exhaust ICA 100 hour visual inspection, no defects noted, next due AFTT: 3908.0.

*AD 2024-21-02 Connecting rod assemblies does not apply due to engine overhaul date of 03/01/2021.

William R. Renn

William R. Renn For Dillon's Aviation, Inc.
AP3579353IA

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.