# AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG



# **ENGINE LOG**

1. Make: Lycoming

2. Model: IO-360-M1A

3. Specification: 1E10

4. Manufacturer's Serial Number: L-35926-51E

5. Date of Manufacture: Oct 2012

6. Aircraft Inspection Cycle:

	TIME RUN	TIME SINCE OVERH		CYCLES		
1 1	HOURS min	HOURS	min Su Tot	b TOTA	- INSTALLATIONS, INSPECTIONS	1
ROUGHT —						
D.C	DIAMOND AIRC D.T. APPROVED  Total Time E Engine instal OIL CHANG Bi-weekly A' attached	manufact ngine Brough lled new on A E DUE @ 25 WD check ca	t forward frircraft DA 4 hrs arried out to was carried	om Flight Test 0, S/N: 40.116 o current revised out IAW the	Registration: N464DS AC Serial Number: 40.1167 Engine Serial Number: L-35926-51E Prop Serial Number: NS1095B Engine Total Time: 4.0 hrs  Journey Log (DAI - Form Q-157): 4.0 hrs  sion 2012-23, all applicable AD's complied with, see applicable Standard of Airworthiness.  NOV 3 0 2012  date  below this point)	
	D	ate:	17-13	Tach:	25./	0
	C			at this time. C		
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	R	an engine-no Signature:	villeaks fr	om oil filter or	Sumpdrain.	
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the fuel injector nozzles. Checked the mag timing. Final run up/leak check good. All Ad's current thru 2014-14.... AD 2012-19-01 Crankshafts, N/A by Engine Model.... AD 2012-03-06 Avstar Diaphrams, PCW, N/A.... C/W AD 2011-26-04 Fuel Injector Lines, no defects noted. Next due Fit Hobbs... Adjusted timing on both mags.... Safetied the alternator belt tension

Work Order: 3461-07-2014

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I certify that this ENGINE has been inspected LAW an Annual Inspection and was found to be in Airworthy condition

arnhart II, IA

SIGNED

DATE: 7/28/2014

THIS PAGE TOTALS
PREVIOUS TOTALS
TOTALS

SINCE NEW

Cycle Aviation 1005 Sycolin Rd Leesburg Executive Arpt Leesburg, VA 20175 CRS# 6LVR604C LOG ID# 2932 06-August-2015 WO# 3324/2 FORM M3 HOBBS 95.4 N464DS S/N 40.1167 DIAMOND AIRCRAFT INC DA40 Pg 1 / 1 LICENCE: Model: IO-360-MLA Serial#: L-35926-51E АМЕог Performed 100hr inspection IAW DA40 MM ch 05-28-00, Lycoming IO-360-MIA overhaul manual and Title 14 CFR appendix d. Performed engine run for warm oil drain. Drained oil and took sample. Removed, cut-open, and inspected oil filter for metal contamination, found satisfactory at this time. Installed new oil filter P/N CH48110-1 and serviced engine with 7 qts of Aeroshell 15W50 oil. Cleaned and gapped sparkplugs. Inspected oil suction screen for contamination, none found. Performed post maintenance leak and ops check, found satisfactory. No further action AMO/ACA Compressions: 1: 76/80, 2: 73/80, 3: 78/80, 4: 76/80 >Complied with AD2011-26-04 by visual inspection of the fuel injection lines for defects, no defects noted. >AD2015-02-07 not applicable due to non aerobatic. I certify that this Engine has been inspected IAW 100Hour/Annual Inspection and has been found to be in Airworthy condition. The article identified above was repaired and inspected in accordance with current federal aviation regulations and current manufacturers manuals and is approved for return to service. Pertinent details on file at this repair station under above referenced work order. 8-6.2015 Cycle Aviation 1005 Sycolin Rd SE Leesburg Executive Arpt Leesburg, VA 20175 CRS# 6LVR604C 11-July-2016 WO# 4420 FORM M3 AC TT 114.7 HOBBS 159.2 N464DS S/N 40.1167 DIAMOND AIRCRAFT INC DA40 TACH 114.7 TSNEW 114.7 Pg 1/1 Engine: Lycoming IO-360-M1A, S/N L-35926-51 > Performed 100 Hr. inspection using Diamond DA 40 MM 05-28-00, 05-28-50 Maintenance checks as a guide. Applicable AD's have been reviewed thru 7/11/2016. See engine AD listing for details. > Drained engine oil. Took sample. Filter inspection satisfactory. Installed CH48110-1 filter. Serviced with 7 qts. Aeroshell 15w-50. Ground run and leak check ok. > Complied with AD 2015-15-07 Fuel Injector lines per SB 342G. No defects noted. Next due 214.7 or > Tightened all rocker cover screws. > Removed exhaust system complied with power flow systems ICA inspection. Reinstalled exhaust with new gaskets. IAW ICA report number PFS-15250-00 no defects noted at this time. > Installed P/N P5000 oil quick drain. No leak noted. The work identified above was performed in accordance with current Federal Aviation Regulations and current manufacturers manuals and is approved for return to service. Pertinent details on file at this repair station under above referenced work order. I certify that this Engine has been inspected IAW a 100 Hour Inspection and has been found to be in Churca Sanz Signed: CRS# 6LVR604C Charlie Schoenduby

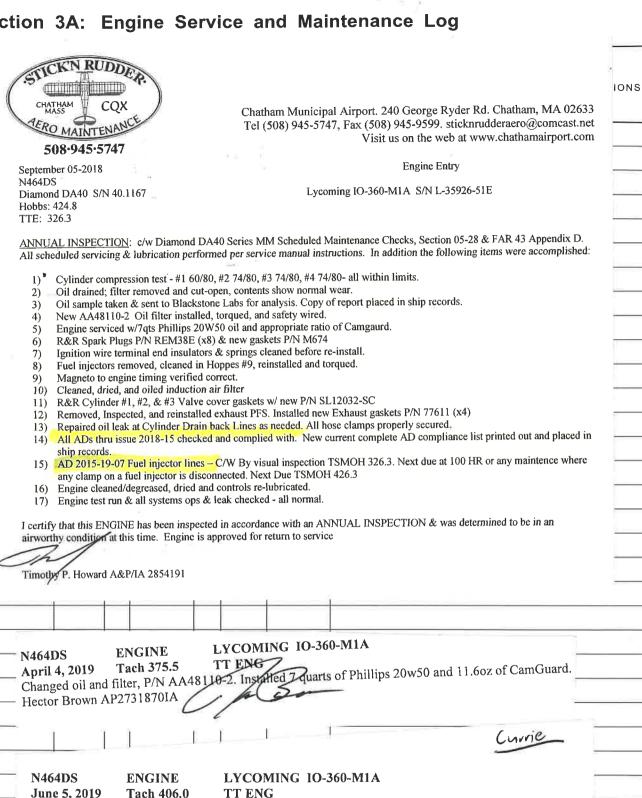
# Section 3A: Engine Service and Maintenance Log

TOTALS SINCE NEW

DATE / / BROUGHT -	TIME SINCE OVERHAUL  HOURS min HOURS min Sub TOTAL	INSTALLATIONS, INSPECTIONS		n	CHATHAM CQX  Chatham Municipal Airport. 240 George Ryder Rd. Chatham, MA 02633
	353 Airport Tyler, Texas 75704	Date: 7/26/2016 HM: 173.2			Tel (508) 945-5747, Fax (508) 945-9599. sticknrudderaero@comcast.net Visit us on the web at www.chathamairport.com  Sept 27, 2017 N464DS Diamond DA-40XLT Tach / Hebbs: 0209.7
	N464DS  1. Installed SAFE-HEET engine pre-heater on the oil p  Rex Johnson A&P 3129314				1) Engine oil drained & sample taken and sent to Blackstone Labs for analysis 2) Oil filter removed and cut-open, contents show normal wear 3) Replaced broken Power Flow Exhaust system rubber support hangar w/new 4) New Tempest AA48110 oil filter installed, torqued and safety wired 5) Engine serviced with 7qts Acroshell 15W50 oil 6) Engine test run and leak checked – all normal  Aircraft approved for return to service  Timothy P. Howard A&P/IA 2854191  EMO
	353 Airport Dr. Tyler, Texas 75704  N464DS  1) Change oil and filter. Serviced with Aero	Date: 10/03/2016 Tach: 195.0  Shel W100l and an AA48110-2 filter.  Rex Johnson A&P3129314IA			N464DS ENGINE LYCOMING 10-360-M1A  Dec. 28, 2017 Tach 254.3 TT ENG  Changed oil and filter, P/N AA48110-2. Took oil sample and sent to AOA for analysis. Installed 6.5 quarts of Phillips 20w50 and 1 pint CamGuard.  Hector Brown AP2731870IA
	<ul> <li>3. C/W AD 2015-19-07 by inspection of fuel li</li> <li>4. Removed cleaned and gapped spark plugs.</li> </ul>	Acft. AMM 05-20-00section 4. A (1) 1-39.  h 8qts Shell 15W50 and a CH48110-1 filter.  ines and clamps. Found okay.  Reinstalled plugs. 15250-00. Reinstalled exhaust with new gaskets.  able Ads complied with.			N464DS ENGINE LYCOMING IO-360-M1A  June 14, 2018 Tach 304.1 TT ENG  Changed oil and filter, P/N AA48110-2 Took oil sample and sent to AOA for analysis. Installed 6 quarts of Phillips 20w50 and 1 pint CamGuard.  Hector Brown AP27318701A  Hector Brown AP27318701A
THIS PAGE TOTALS		A&P3129314IA	- Ou-		
PREVIOUS TOTALS					

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## Section 3A: Engine Service and Maintenance Log



Changed oil and filter, P/N AA48110-2. Installed 7 quarts of Phillips 20w50 and 11.6oz of CamGuard.

CW AD15-19-07 by inspection of fuel injector lines Per AD, next due 100 hrs.



Diamond DA40 S/N 40 1167

N464DS

TTE: 0426.8

RECO TD. NITRID AND INSPE R & R EXHAUST ( HONE BORE (STD. E TEST, CLEAN AN Chatham Municipal Airpo
Tel (508) 945-5747, Fax (506) 945-5747, CLE BORN
Tel (508) 945-5747, CL

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CE:

Engine Entry

Lycoming IO-360-M1A S/N L-35926-51E

ANNUAL INSPECTION: c/w Diamond DA40 Series MM Scheduled Maintenance Checks, Section 05-28 & FAR 43 Appendix D. Scheduled servicing & lubrication performed per maintenance manual instructions. The following items were also accomplished:

- 1) Cylinder compression test #1 12/80, #2 74/80, #3 77/80, #4 73/80
  - a. Removed #1 Cylinder for repair to Pine Mountain Aviation, Danbury CT.
  - Reinstalled repaired Cylinder with same SN: PMA2660 cylinder. See yellow tag dated 9/17/2019. Attacked
- Oil drained: filter removed and cut-open, contents show normal wear.
- Oil sample taken & sent to Blackstone Labs for analysis. Copy of report placed in ship records.
- New AA48110-2 Oil filter installed, torqued, and safety wired.
- Oil suction screen removed, inspected and reinstalled. No contaminants. New AN900-16 crush gasket. Safety wired.
- Engine serviced w/7qts Phillips 20W50 MINERAL oil and appropriate ratio of Camguard.
- Spark plugs cleaned, inspected, tested and reinstalled with new M674 copper gaskets.
- Ignition wire terminal end insulators & springs cleaned before re-install.
- Fuel injectors removed, cleaned in Hoppes #9, reinstalled and torqued.
- Magneto to engine timing verified correct per Lycoming specification.
- 11) Cleaned, dried, and oiled induction air filter.
- 12) R&R Cylinder #1, #3 Valve cover gaskets w/ new SL75906 cork gaskets.
- 13) Removed, Inspected, and reinstalled PowerFlow exhaust per PFS 15250-00 Rev. E
  - Installed new Exhaust gaskets P/N 77611 (x4)
  - Slip joints lubed with copper anti-seize.
  - c. No defects found with exhaust system. OK for continued service.
- 14) Tightened all oil return drain back line hose clamps as needed, Cylinders 1-4.
- 15) C/W Lycoming MSB342G with M1A Supplement 1 (fuel injector lines). No defects noted.
- 16) Replaced Alternate Air Valve body with new D41-7166-20-30. Connected and adjusted for proper operation.
  - a. Ops check of alternate air valve shows expected RPM change. OK for service.
- 17) Trimmed ends/refit cooling scat hoses for alternator and battery at cowling plenum. OK for continued service.
- 18) All ADs thru issue 2019-18 checked and complied with. New AD compliance list printed out and placed in ship records.
- 19) AD 2015-19-07 Fuel injector lines C/W By visual inspection at reassembly of #1 cylinder. Next due 0526.8 OR maintenance of any fuel injector line clamps/fuel injector line removal.
- 20) Engine cleaned/degreased and blown dry.
- 21) Engine test run & all systems ops & leak checked all normal.

I certify that this ENGINE has been inspected in accordance with an ANNUAL INSPECTION & was determined to be in an airworthy condition at this time. Engine is approved for return to service,

hem Seth E. Dietrich A&P/IA 3212640

January 20, 2020

**N464DS** 

Hobbs: 426.8

- 1. Changed oil and filter, filter inspection normal, installed new CH48110-1 filter, serviced sump with 7qts. Aeroshell 15W50 oil.
- **2.** Compression test: #1-79/80, #2-75/80, #3-79/80, #4-78/80.
- 3. Removed and replaced #2, #3, and #4 induction gaskets and o-rings with new P/N 71973, 77569. My signature constitutes approval for return to service of this aircraft ONLY FOR THE WORK I HAVE PERFORMED. I have not performed nor been authorized to perform any inspection of this aircraft nor have I reviewed or been authorized to review the maintenance records, including Part 39 company



Legacy Air, Inc 11905 Corporate Way Broomfield, CO 80021 303-404-0277

**Curt Lee Power** A&P 2882132

THIS PAGE TOTALS PREVIOUS TOTALS **TOTALS** SINCE NEW

Hector Brown AP2731870IA

June 5, 2019

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DATE NOTE IN THE	Section 3A: Engine Service and Maintenance Log						Engine	<b>7</b> A4
Reging  Water   March   Secretary   March   Se	SINCE OVERHAUL			AC S/N: 40.1167 M/N: IO-360-M1A	ACTT: 620.3 S/N: L-35926-51E	Hobbs: TSO:	Tach:	CE:
Figure 1997 Make: Description of the process of the				1. Performed 100hr in	spection IAW Diamond DA4	0 AMM 05-28-00, AD research	n has been completed up to	Α Α
See & 1445-0. Mark Control of Bear and Control		Engine		- 2. Drained engine oil,	removed oil filter and cut ope	en with no defects noted. Install	ed new oil filter P/N	1-
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AND PROCESS AND STATE OF THE ADDRESS AND STATE	M/N: S/N: 150: M/N: 150: M/N: 150: M/N: M/N: M/N: M/N: M/N: M/N: M/N: M/N	filter P/N		magneto drop				
The Uniform of the Supervision of the Uniform of th	Drained engine oil, removed filter, and cut open with no detection of the property of the prop		+	4. #2 Cylinder exhaus Lycoming engines 1	t leak. Removed and replaced	#2 Cylinder with new Kit P/N	05K211074 IAW	
The College of State Co	All work performed IAW current FAA regulations and current manufacturers technical data, The alluce is all work by			IAW Lycoming eng	gines service instruction No. 1	427C. No defects noted. Cylind	errormed ground runs er requires flight check	3=
To displace discovered control of the Policy of the Control of the Policy	David McRide Date: 03/16/2020	*		per service instructi	on 1427C.			-
Engine  96 #: N440CS Make: Diamond Model: CA40 Hobbs: 159:  159:	For: Avilight Rochester Corporation CRS J22R845J	GHT		after ground run, an	d cut open with no defects no	ted, Installed new oil filter P/N	A A 48110-2 No leaks noted	
Reg. R. MANUALS Make: Diarround Model: 2040 MAY 2000-071A ACTT: 622 15 MAY: 0.2000-071A MAY: 0.200				Performed engine co	empression check with results	as follows. #1-75/80 #2-75/80	#3-75/80 #4-74/80	
Salt: 44-187 ACT: 923 Hobbs: Tach: 1891 Performed 10fth: inspection IAW Diamond DA 40 AMM 05-28-00. AD research has been performed up to and includent files. 2016; 10:560-203.  Defined centre of 1 country of 1 filter, and out one with the discrementation and the second performance of the second performa	Makes Diamond Model: DA40	Engine		342G. No defects no	oted. Next due at 730.3hrs.	color files and clamps IAW Lyc	coming engines MSB No.	
Performed Utility inspection IAW Diamond DA, 40 AMM 05-25-00. AD resourch has been performed up to and metablase of 55/46/200. Derived means oil. resourced off fifter, and cut even with no discrepancies noted installed new oil filler PN AAM 1102 particulation of dealth of the control of the	AC S/N: 40.1167 ACTT: 523.2 Hobbs:			I certify that this air	eraft has been inspected IAW	0.1001-1-1-1		
and including 05/20/20/20.  Drained entire 0.1 renoved oil filter, and cut onen with no discrepancies noted. Installed new oil filter PN AAA\$111/2 and added Sates of roblines YC-20/20/20 and school states of the following results.  2. 6/8/20 2. 6	WING. 10-500-WITA			airworthy condition.				
A ASE In 2- and nethod Rais of nutlities (CPWW-50 oil Rais earners with no looks noted Performed compassion check with the following results.  21-76/80 21-76/80 23-7	and including 05/26/2020	l'.	-	All work performed IAW current FAA regulation For delails of work performed, see workorder	s and current manufacturers technical data. The	e work performed above is approved for return to	service	
Per Angula Construction Constru	AA48110-2 and added 8 ats of phillips XC20W-50 oil. Ran engine with no leaks noted		-	Signature:	David McRride			
#2.7 (6.58) #3.7 (7.68) #4.7 (7.08) #4.7 (7.08) #4.7 (7.08) #4.7 (7.08) #5.7 (7.68) #6.7 (7.08) #6.7 (			*	A STATE OF THE STA	lion CRS J22R845J		8	
#4-70/80 C/W AD 2015-19-07 performed visual inspection of fuel injector lines and clamps IAW lycoming engines/MSB 3426. No defects noted, Next due at 633-2 lins.  Removed and replaced LH magneto harmess with new PAN M2989. Ops check satisfactory.  I certify this aircraft has been inspected IAW a 100th inspection and was determined to be in airworthy condition.  The condition of the majority described in the majority performed water (14 register out airrage material performed care in produced in the majority of the majori	#2- 65/80			Rochester, NY 14624			/FL GHT	-
engines MSB 342C. No defects noted, Next due at 633.2 lins.  Removed and replaced LH magneto harmess with new PN M2989. Ops check satisfactory.  I certify this invertify has been inspected IAW at 100hr inspection and was determined to be in airworthy condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 4810-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 580-2 and added 7 gr of Phillips XC 20W-50. Ran engine with no defects noted. Installed new oil filter PN condition.  A 580-2 and A 580-2	#4- 70/80							7
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Teartify this aircraft has been inspected IAW a 100hr inspection and was determined to be in airworthy condition  The particular of the pa	5. Removed and replaced LH magneto harness with new P/N M2989. Ops check satisfactor	y. =======	+	M/N:	S/N:	TSO:	TONE	-
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Similaries    Dead Microses	condition			white the same of	dod / dis of Fillings X ( /	W-30 Kan engine with no	of a star in 1	
Date: 05/26/2020 Work Order: 20-00709  For: Arthigh Rechester Corporation CRS 32/26/31 120S Southwister A Prochester, NY 14624  NOCHOSELER, NY 14624  NOCHOSELER, NY 14624  PEARLIED SHATT  TOTALS  TO	All work performed IAW current FAA regulations and current manufacturers technical data. The work performed above is approved for return to service.  For details of work performed, see work order on file with legar statem.				file with yepair shipon.	and the state of t	service	
For Alligh Rochester Opportuni CRS 1208863 1205 SOCIATION ROLL	/ Build Hielding	ork Order: 20-00709		For: Avflight Rochester Corporati	David McBride	Date: 09/15/2020	Work Order: 20-00770	
Dealled Engine oic, Repared with New Tempest  On Firth Plu AA48110-2. Serviced with (7) Service  Outer of Philips X/c Zow50 Oil. Leak (Aeck Okay)  THIS MAGE  PREVIOUS  TOTALS	1205 Scottsviife Rd	SHT		1205 Scattsville Rd			/FIASUT	
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Engine Model: DA40 Reg #: N464DS Make: Diamond Tach: **ACTT:** 720.6 Hobbs: AC S/N: 40.1167 TSN: TSO: S/N: L-35926-51E M/N: IO-360-M1A Performed Annual/100hr inspection IAW Diamond DA40 AMM 05-28-00 and 05-28-50. AD research completed up to and including 10/17/20. Performed engine compression check with results as follows. #1-78/80, #2-77/80, #3-78/80, #4-74/80. Drained engine oil, removed oil filter, and cut open filter with no defects noted. Installed new oil filter P/N AA48110-2 and added 8qts of phillips XC 20W-50 oil. Ran engine with no leaks noted Removed and replaced #1, 3, and 4 valve cover gaskets with new P/N 75906 IAW lycoming engines IO-360M1A maintenance and overhaul manual appendix IV section 5. Removed and replaced exhaust gaskets with new P/N 77611. C/W AD2015-19-07 visual inspection of fuel injector lines and clamps IAW Lycoming engines mandatory service bulletin 342G. No defects noted. Next due at 830.6 hrs. I certifiy that this aircraft has been inspected IAW a Annual/100 hr inspection and was found to be in airworthy condition. All work performed IAW current FAA regulations and current manufacturers technical data. The work performed above is approved for return to service. For details of work performed, see workorder on file with repair station Work Order: 20-00796 Date: 10/17/2020 David McBride For: Avflight Rochester Corporation AVFLEGHT 1205 Scottsville Rd Rochester, NY 14624 2041 Niagara Falls Blvd, Niagara Falls, NY 14304 Tail: N464DS Tach: 778.0 Make/Model: Diamond DA40 S/N: 40.1167 -removed 8x Champion Plugs P/N- REM38E. Test ran engine. All results were found to be satisfactory. This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00453. Date: December 18, 2020 Calspan Corporation, CRS# - 2C3R049L Ben Chieffo, Accountable Manager THIS PAGE **PREVIOUS** TOTALS CARRY FORWARD to Top of Next Page SINCE NEW

Pog #:	N464DS	Makes Diamon	d Madala DA	40	Engine
AC S/N:	40.1167 IO-360-M1A	Make: Diamond ACTT: 820.2 S/N: L-35926	Hobbs:	,40	Tach: TSN:
1.		r inspection IAW Di and including 03/10/	amond DA40 AMM 05 21.	-28-00 and 05-28-50. A	AD research was
2.	Drained engine of	oil, removed oil filter	, and cut open with no d	lebris noted. Installed n	ew oil filter P/N
	AA48110-2. Res	moved and cleaned or with no leaks noted.	il sump screen with no d	lebris noted. Added 7qt	ts of Phillips XC20W-50
3.	Performed engin	e compression check	with results as follows	#1 76/80 #2 75/80 #3 7	74/80 #4 74/80.
4.	Removed RH ma	agneto P/N 4370 S/N	11081038 and installed ce instruction No. 1437.	d new Magneto P/N 43'	
5.	Removed loaner	serviceable fuel serv		70AM9203 an installed	d original fuel servo P/N
6.		ight with no defects		a.g. 100t mgm required	i, 101. 1011 #0.
7.		9-07 visually inpsec		nd clamps IAW Lycomi	ing MSB 342G. No defects
8.	C/W AD 2020-2	5-12. Effected crank	shaft parts not install or	n engine.	
	I certify that this condition.	aircraft has been ins	pected IAW A 100 hr in	nspection and was found	d to be in airworthy
All work perfor For details of v	med IAW current FAA regula work performed, see workord	tions and current manufacturers tecl er on the with repair station.	hnical data. The article is airworthy with re-	spect to the work above	
Signature:	1 Just	1/6	id McBride Date: 03/	10/2021	Work Order: 21-00915
	Avflight Rochester Corpo 1205 Scottsville Rd Rochester, NY 14624	oration CRS J22R845J		AVE	



2041 Niagara Falls Blvd, Niagara Falls, NY 14302

# Tail: N464DS A/C TT: 1163.4 Make/Model: Diamond DA-40 S/N: 40.1167

Removed, cleaned and inspected all spark plugs and reinstalled. Adjusted timing on both magnetos to 25 degrees. Engine was ground run and magnetos ground check was conducted satisfactory.

This airc aft has been repaired and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00490.

Michael A. Sears Manager of Quality/Inspection

Date: April 1, 2021 Calspan Corporation CRS # 2C3R049L CE:



2041 Niagara Falls Blvd, Niagara Falls, NY 14302

# Tail: N464DS A/C TT: 872.3 Hobbs: 1192.6 Make/Model: Diamond DA-40 S/N: 40.1167

Changed oil and filter this date. Installed Tempest AA48110-2 oil filter and 8Qts Phillips XC 20W50 oil.

Removed oil filter was cut open and inspected – no metal or contamination noted. Engine was ground run, leak and operationally checked satisfactory. Checked and serviced aircraft tires with dry nitrogen as per AMM.

This aircraft has been repaired and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility

Michael A. Sears Manager of Quality/Inspection

Date: April 12, 2021 Calspan Corporation CRS # 2C3R049L



Hobbs

S/N

Reg. #

Avflight Rochester Corporation 1205 Scottsville Rd. Rochester, NY 14624 CRS J22R845J

Date

Type

W/O#

N464DS	40.1167	918.1	DA 40	05/20/2021	21-01032	
Lycoming I	O-360- M1A S/N	N L35926-51E			12	
1. 100	Hour inspection du	e. C/A Performed	100 hr. inspection	IAW Diamond D	A 40 AMM	
05-2	28-00, and 05-28-50	0. I certify that the	aircraft has been in			
•	ection and was det research due  C/A I		irworthy condition. earch through 2021	-10	====	
			ined oil hot. Remov		nd replaced	
			ole taken. Serviced	engine with 8 qts	s Phillips XC	
	/50 oil. Ran engine ine compression te		ea. Lengine compressio	on test as require	ed Values	
_	ollows: #1 79/80 #2			511 1001 00 10 quii 1		
	-	•	on due. C/A C/W AS			
•	ection of fuel inject t due 1028.1 ACTT	·	s IAW Lycoming M	SB 342G. No de	erects noted.	
68			and worn. C/A Rem	noved and replac	ced SCAT	
tubir	ng for battery and a	lternator cooling a	s required.			
All work per	rformed IAW currer	nt FAA regulations	and current manufa	acturers technica	al data. The	
			e. For details of wo	rk performed see	e WO# 21-	
01032 on fil	le with this repair st	ation.			-	
Signed /	pel Jalin	Hadria	n Dailey CRS J2	22R845J	-	
/	<i>C</i>		T			
<del></del>					Engine	
Rea #: N464F	)S Make	Diamand			Engine	
Reg #: N464D AC S/N: 40.116	7 ACTT:	Diamond 976.3	Model: DA40 Hobbs:		-	
AC S/N: 40.116 M/N:	S7 ACTT:	976.3	Hobbs: TSO:		Tach:	
AC S/N: 40.116 M/N: 1. Draind AA48	ACTT: S/N: ed engine oil, removed 110-2 and added 8 qts	oil filter, and cut ope of Phillips XC 20W-	Hobbs: TSO: en with no defects noted	h na laalta makad	Tach:	
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AC S/N:	N464DS 40.1167 IO-360-M1A	<b>Make:</b> Diamond <b>ACTT:</b> 1012.6 <b>S/N:</b> L-35926-51E	Model: DA40 Hobbs: TSO:	Tach: TSN:
1.	completed up to	and including bi-weekly 2021		
2.	AA48110-2 and	8ats of phillips XC 20W-50 (	oil Ran engine with no leaks r	oted. Installed new oil filter P/N
3.	Performed engin	e compression check with resu	ults as follows #1-74/80 #2-74	1/80 #3-78/80 #4-75/80
4.		19-07 visually inspected fuel in ext due at 1122.6hrs.	njector lines and clamps IAW	Lycoming MSB 342G. No
All work perfor	condition. med IAW current FAA regula	ations and current manufacturers technical data. The	AW a 100hr inspection and wa	-
For details of v	vork performed, see workord	er on file with repair station		en en
Signature:	1 pm	David McBride	Date: 07/08/2021	Work Order: 21-01078
	Avflight Rochester Corp. 1205 Scottsville Rd Rochester, NY 14624	pration CRS J22R845J	AV	FLIGHT
	y	AVELIGHT	A. first D. I	
		LAI AVAIII	Avflight Rochester Co	rnoration

Engine

Rochester, NY 14624 CRS J22R845J Reg. # S/N Hobbs Tach Type **Date W/O#** N464DS 40.1167 1465.1 1056.5 DA 40 07/30/2021 21-01121

**Avflight Rochester Corporation** 

1205 Scottsville Rd.

Lycoming IO-360- M1A S/N L35926-51E

1. Oil and filter change due. C/A Drained oil hot. Removed, inspected, and replaced oil filter with new AA48110 filter. Serviced engine with 8 qts. Phillips XC 20W50 oil. Leak and ops check satisfactory.

All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed see WO# 21-01121 on file with this repair station.

	igiiou	TOWN	1 James M	nadrian Dalle	V CRS J22R845.	J	_
AC S/N	: N464DS : 40.1167 : IO-360-		Make: Diamond ACTT: 1113.4 S/N: L-35926-51E	Model: DA4 Hobbs: TSO:	0	Engir Tach: TSN:	ne 🎏
1.	complet	ed up to and i	pection IAW Diamond I ncluding Bi-weekly 202	21-18.			-
2.	Drained	loil removed	npresssion check with r oil filter and cut open tillips XC20W-50 oil. R	with no defects no	ted Installed new oil t		-
4.	C/W AI	D 2015-19-07	Visually inspected fuel axt due at 1223.4 Hrs.			ng MSB No.342G.	-
5. 6.		l magnetos aft	d worn magneto gaskets ter replaceing gaskets L			437. Ran engine with no	) _
	I certify conditio		raft has been inspected	IAW a 100hr insp	ection and was found t	to be in airworthy	
All work perfo For details of	ormed IAW curre work performed	ent FAA regulations and I, see wackorder on file	current manufacturers technical data, Ti with repair station.	he work performed above is ap	proved for return to service		
Signature: For:	Avflight Roc 1205 Scotts Rochester,	E10107E2	David McBride CRS J22R845J	Date: 09/0	1/2021 AVE	Work Order: 21-01155	

## Section 3A: Engine Service and Maintenance Log

eg #: N464E S/N: 40.116	67	Make: Di ACTT: 11	156.3	Model: DA40 Hobbs:	~	Airframe	
Remo troubl	ved and reseasches	placed manifol Test flight req	ld pressure tr uired for in f	ansducer with serviceabl light manifold pressure v	e P/N APT-151B-1000-2	20A for	
k performed IAW c	Urrent FAA regulati	ions and ourselves	¥9556	The article is airworthy with respect to the w			
talis of work perfor	med_see workorde	on file with this Repair S	Marion data.	The article is airworthy with respect to the w	ork above.	·	
For: Avflight R	ochester Corpora	ation CRS J22R845J	David McBride	Date: 09/28/2021	ork O	rder: 21-01188	
1205 500	ottsville Rd er, NY 14624				WFL		
			11		40 I C. A	OHI	
						Engine	7
Reg #: N4			: Diamend	Model: DA40		-	
AC S/N: 40 M/N: 10-	.1167 -360-M1A		: 1210.3 : L-35926-51	Hobbs: E TSO:		Tach: TSN:	
				ond DA40 AMM 05-28-	50 and 05-28-00. AD re	eseach completed	
		luding bi-week		th worlds on follows: #1.77	0/90 #2 76/90 #3-77/90	#4-76/80	
2 Pe	riormed en	igine compress removed oil filt	ion check will ter and cut o	th reults as follows. #1-72 pen with no defects noted	. Add 8 ats of Phillips X	C 20W-50 oil.	1-
In	stalled new	oil filter P/N	AA4810-2 ar	nd ran engine with no leal	ks noted.		-
4. C/	W AD201	5-1907 visual i	inspection of	fuel injector lines and cla	imps with no defects not	ed. Next due 1320.3	ļ
				ycoming Service instructi	on SI 1437.		1
с т:							1
		d secured oil fi		saftey wire.			-
7 Ti	ghtened oil	l return drain li	nes. Ran eng	saftey wire. ine with no leaks noted.		be in airworthy	
7 Ti	ghtened oil	l return drain li	nes. Ran eng	saftey wire.		be in airworthy	The state of the s
7 Ti	ghtened oil certify that ondition.	this aircraft ha	nes. Ran eng	saftey wire. ine with no leaks noted.	ection and was found to	be in airworthy	
7 Ti I c	ghtened oil certify that ondition.	l return drain li this aircraft ha	nes. Ran eng	saftey wire. ine with no leaks noted. sted IAW an Annual insp	ection and was found to led for return to service		
7 Ti	ghtened oil certify that andition.	this aircraft ha	nes. Ran eng	ine with no leaks noted.  cted IAW an Annual inspendent.  data, The work performed above is approved.	ection and was found to led for return to service	be in airworthy  ork Order: 22-01215	
7 Ti  CO  All work performed For details of work Fignature: For: Avi	ghtened oil certify that andition.	this aircraft ha	nes. Ran eng	ine with no leaks noted.  cted IAW an Annual inspendent.  data, The work performed above is approved.	ection and was found to led for return to service		
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7 Ti  I co  All work performed  For details of work  Fignature:  For: Ayl	ghtened oil certify that andition.  HAW current FAA performed, see w  Figure Rochester Scottsville R chester, NY 14	this aircraft ha regulations and current n orkerdes on file with redail Corporation CRS J22 8d 6224	David Mo	remier Aircraft Service,. Inc.	DATE: 2/14/20 A/C TSN: 1218	ork Order: 22-01215	
7 Ti  I co  All work performed  For details of work  Fignature:  For Ayl	ghtened oil certify that ondition.  I IAW current FAA puritured, see w  light Rochester Scottsville R chester, NY 14	this aircraft ha regulations and current porkerdes on file with result Corporation CRS J22 dd 624  INE MODEL: 30-M1A INE SN: L35928-51E INC: 464DS RK ORDER: -02-2022	David Mo	remier Aircraft Service, Inc.  540 NW 23rd Avenue Hanger 14 ont Lauderdale, FL 33309 hone: (954) 334-2393	DATE: 2/14/20 A/C TSN: 1216 ENG TT: 1216 TACH: 1216	ork Order: 22-01215	
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3330 AIRPORT LOOP SALISBURY, NC 28147 OFFICE: 704-431-6862 INFO@SOUTHTECAVIATION.COM

DATE: JANUARY 4, 2023 | LYCOMING IO-360-M1A | S/N: L-35926-51A | REG: N464DS

TACH: 1040.3 HRS. TTE: 1040.3 HRS. TSMOH: N/A

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA40 AMM, INSPECTION CHECKLIST, AND LYCOMING ENGINE REPAIR MANUAL.

### CHECKED AD'S THROUGH BI-WEEKLY2023-01

AD 15-19-07 INSPECTION OF EXTERNAL FUEL INJECTOR LINES COMPLIED WITH FOLLOWING LYCOMING ENGINES MSB NO. 342G, DATED JULY 16, 2013. REINSPECT AFTER ANY MAINTENANCE IS DONE WHERE ANY CLAMP ON A FUEL INJECTOR FUEL LINE WAS DISCONNECTED, MOVED, OR LOOSENED AND WITHIN EVERY 110 HOURS TIS AND AFTER EACH ENGINE OVERHAUL. NO FAULTS NOTED.

COMPRESSIONS: 1). 78/80, 2). 74/80, 3). 79/80, 4). 71/80.

PERFORMED OIL CHANGE.
CUT OIL FILTER, NO METAL NOTED.
COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
SERVICED ENGINE WITH EIGHT QUARTS PHILLIPS 66 X/C AVIATION OIL 20W-50.
REPLACED OIL FILTER, P/N:(AA48110-2).
REPLACED FLY WHEEL TEETH RING.

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

TIMOTHY D JORDAN

A&P/IA 3264477

Topflight Aircraft Maintenance 48162 F Street Belleville Michigan 48111 517 320-0893

Make: Diamond (Austria)

Model: DA 40
Tail: N464DS
S/N: 40.1167

Hours: Tach: 1339.3

Signed: Clark Sterner

Cert: A&P 3103433 IA

Name: Patrick Stewart

Date: 07/07/2023

LICENCE:

AMEor

AMO/ACA

NAME/

Make: DIAMOND AIRCRAFT IND INC

Model: DA 40

N464DS

40.1167

Tail:

S/N:

SIGNATURE

#### Section JA: Engine Service and manners --



Air America Aviation Services 28331 Lemoyne Rd Millbury OH 43447 AVIATION SERVICES 800-942-4723 (419) 837-2602 Make: DIAMOND AIRCRAFT IND INC

Model: DA 40 N464DS Tail:

S/N: 40.1167

Hours: Hobbs:1888.9

Drained oil. Removed, and replace oil filter with new AA48110-2. Removed, inspected, cleaned, reinstalled, and safety suction oil screen. Serviced engine with 8 quarts of AeroShell W15W50. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Remove and replace starter with new 149NL/EC SN#: H-X011228. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-

Name:

Cert: A & P 3558606 IA

Date: 07/25/2023



Air America Aviation Services 28331 Lemoyne Rd Millbury OH 43447 AVIATION SERVICES 800-942-4723 (419) 837-2602

GRIFFING FLYING SERVICE

Make: DIAMOND AIRCRAFT IND INC

Model: DA 40

N464DS Tail:

S/N: 40-1167

Hours: Hobbs: 1993.7

Drained oil. Removed, cleaned, installed and Safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safety suction oil screen. Serviced engine with 8 quarts of AeroShell 15W50. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Run up, leak check and operational check completed. I certify that this engine has been determined to be in airworthy condition in regards to the work completed and returned to service on this date and

Name:

Cert: A & P 3558606 IA

Date: 11/14/2023

3255 F. State Rd. Port Clinton, OH 53652

Phone: 619-734-5400 (Text: 60) 210-1505

N/A

SMOH



Signed:

Name:

Air America Aviation Services 28331 Lemoyne Rd Millbury OH 43447 AVIATION SERVICES 800-942-4723 (419) 837-2602

Air America Aviation Services 28331 Lemoyne Rd

Millbury OH 43447

AVIATION SERVICES MILIDURY OF 43447 800-942-4723 (419) 837-2602

Hours: Tach: 2042.6 ETT: 2042.6

Jonah T. Neary

Make: DIAMOND AIRCRAFT IND INC Model: DA 40

N464DS Tail: 40-1167 S/N:

Hours: Hobbs:2086.4

Drained oil. Removed, cleaned, installed and Safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safety suction oil screen. Serviced engine with 8 quarts of AeroShell 15W50. Run up, leak check and operational check completed. I certify that this engine has been determined to be in airworthy condition in regards to the work completed and returned to service on this date and total time.-----END---

Inspected Engine per Diamond Aircraft 100HR / Annual inspection check list and FAR 43 Appendix "D" in scope and detail. Compression check as follows #1: 69/80E #2: 70/80 #3: 72/80E #470/80. #3 exhaust flange leaking. Removed

entire exhaust system. Exhaust pipe at muffler has cracks in the welds. Welded exhaust. Installed exhaust back on engine with new gaskets and mounting hardware. #2 cylinder hold down nuts on backwards. Removed nuts installed correctly and torque to spec. Both mags out of time. Reset timing to 25 degrees. Alternator belt loose. Threads gone

on alternator. Drilled and installed 5/8 bolt with lock washer and lock nut with the belt tight. Replaced -12 sceet hose from muffler shroud to cabin heat valve. Throttle rod at servo has the wrong washer stack. Reworked the stack to be correct. Drained oil. Removed, cleaned, reinstalled and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safety suction oil screen. Serviced engine with 8 quarts of AeroShell 15W50. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Completed AD check and compliance thru 24-04. All AD's current

as of this date and total time. I certify that this engine has been inspected in accordance with an 100 hr / annual

inspection and was determined to be in airworthy condition and returned to service on this date and total time.--

Signed: Name:

James Miller

Cert: A & P 3558606 IA

Cert: A&P 3870576 IA

Date: 04/08/2024

Date: 05/21/2024

TTE N/A

12/1/2023 N464DS HOBBS 1994.8 TACH

RIGHT MAGNETO INOPERATIVE. INSTALLED RIGHT MAGNETO P/N 4370, S/N 18091176, OVERHAULED BY QUALITY AIRCRAFT ACCESSORIES, FAA CRS (QYIR334Y), UNDER WORK ORDER 090478. INSTALLED 2 NEW SCREWS ON LEFT MAGNETO HARNESS COVER. ENGINE TEST RUN AND LEAK CHECK PERFORMED, NO DEFECTS NOTED. ALL ABOVE WORK PERFORMED IN ACCORDANCE WITH THE LYCOMING IO-360 MAINTENANCE MANUAL, AIRCRAFT APPROVED FOR RETURN TO SERVICE.

N/A

I certify that only the work performed has been inspected

turned to service in an airworthy condition. N AP4891517 IA

CARRY FORWARD to Top of Next Page

S PAGE

# Section 3B: Record of Engine Airworthiness Directives (A/D) and Service Bulletins

TE /	A/D, S/B, S/I, MODS	DETAILS OF REPAIRS, ADJUSTMENTS, MODIFICATIONS	0
	<b>Diamond</b>		
D.C	DIAMOND AIRCRAFT INDUSTRIES INC. D.T. APPROVED MANUFACTURER #161-93	Registration: N464DS AC Serial Number: 40.1167 Engine Serial Number: L-35926-51E Prop Serial Number: NS1095B Engine Total Time: 4.0 hrs	
	Total Time Engine Brought forward from Flig Engine installed new on Aircraft DA 40, S/N: The following STC's are incorporated:	ht Test Journey Log (DAI - Form Q-157): 4.0 hrs 40.1167	
	<ul> <li>SA02476CH-D Hartzell: HC-C2Y</li> <li>SA03281AT - POWER FLOW EXH</li> </ul>	HAUST: installation	
	attached	ent revision 2012-23, all applicable AD's complied with, see  AW the applicable Standard of Airworthiness.	
	(DA)	NOV 3 0 2012	
3	Inspector	date	
-			