

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

ENGINE DATA

1. Make

Lycoming

2. Model

IO-360-M1A

3. Specification

4. Manufacturer's Serial
Number

RL-16629-51E

5. Date of Manufacture



Section 3A: Engine bet...

Sea Flight Training LLC
22 Weymouth Dr. NW
Rossville, VA 24062

Author: John S. Sorenson	Title: N/A
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第六 第七 第八 第九 第十 第十一 第十二 第十三 第十四 第十五 第十六 第十七 第十八 第十九 第二十 第二十一 第二十二 第二十三 第二十四 第二十五 第二十六 第二十七 第二十八 第二十九 第三十 第三十一 第三十二 第三十三 第三十四 第三十五 第三十六 第三十七 第三十八 第三十九 第四十 第四十一 第四十二 第四十三 第四十四 第四十五 第四十六 第四十七 第四十八 第四十九 第五十 第五十一 第五十二 第五十三 第五十四 第五十五 第五十六 第五十七 第五十八 第五十九 第六十 第六十一 第六十二 第六十三 第六十四 第六十五 第六十六 第六十七 第六十八 第六十九 第七十 第七十一 第七十二 第七十三 第七十四 第七十五 第七十六 第七十七 第七十八 第七十九 第八十 第八十一 第八十二 第八十三 第八十四 第八十五 第八十六 第八十七 第八十八 第八十九 第九十 第九十一 第九十二 第九十三 第九十四 第九十五 第九十六 第九十七 第九十八 第九十九 第一百

Page No. 10 Date: 10/10/2023

Setup Time: 01:16:42.517 Test Time: 2954.6 TSMO: 0.0

1999 1999 1999

Work Performed: Installed engine S/N RL-36679-51E overhauled by Triad Aviation, INC. under work order MO-24814 with a total time of 688.3. Installed new AAR811D-2 filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50 Type M. Differential compression test performed results as follows: #1.75/80 #2.76/80 #3.76/80 #4.74/80. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs. Replaced all plugs and reinstalled to proper torque specifications. Verified magnet timing to 25°. Cleaned and oiled engine intake air filter. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. **Next inspection due before AFIT 2069.**

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

William Painter A&P 3170695 1A

Star Flight Training LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 5/5/2026 Tail #: N611H

A/C Make/Model: Diamond DA40

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

Engine S/N: RL-16629-51E Tach Time: 2959.6 TSMO: 0.0

Total Time: 6465.3

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

William Painter A&P 3170695 1A

[illegible]

ENGINE LOG BOOK



Continental Motors Services

Fairhope, Alabama

DATE: December 20, 2017	ENGINE MODEL: IO360M1A	ENGINE S/N: RL-16629-51E	ENGINE T.T./S.M.O.H. TT 4119.6/ 0 SMOH
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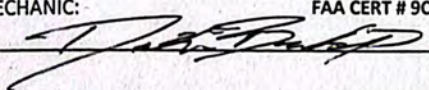
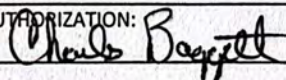
Continental Motors Services

This is to certify that the engine described hereafter has been OVERHAULED to manufacturers new parts limits as listed in overhaul manual 60294-7 Revision dated July 2011. This engine was disassembled, cleaned, inspected, and tested in accordance with manufacturers current instructions. Applicable Service Bulletins and Airworthiness Directives have been complied with. This engine has been inspected in accordance with procedures listed in overhaul manual 60294-7 and has been accepted by CONTINENTAL MOTORS SERVICES, INC. in Fairhope Alabama. I certify that this engine has been OVERHAULED as indicated above and was determined to be airworthy with respect to the work performed. Reference Work Order ES-7987.

COMPLIED WITH THE FOLLOWING AIRWORTHINESS DIRECTIVES:
 2015-19-07: Complied with by inspection and replacement of components as required by 342G. NEXT DUE: After any maintenance is done on the engine where any clamp on a fuel injector fuel line was disconnected, moved or loosened and within every 100 hours TIS and after each engine overhaul. 96-09-10C: Complied with by Installation of new component. NEXT DUE: Engine overhaul.

COMPLIED WITH: 630A, 518D, 612, 342G, 240W, 480E, 524, 439A, 472, 183A, 2015-19-07, 96-09-10C.

THE FOLLOWING COMPLIED WITH BY AVSTAR: 2012-03-06C, 2009-02-03, 79-04-05, 78-23-10, 75-09-15.

MECHANIC: 	FAA CERT # 9CER853B	AUTHORIZATION: 	FAA CERT # 9CER853B
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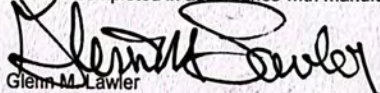
STA
SouthTecAviation
 Office: 704-431-6862

3330 Airport Loop Road
 Salisbury, NC 28147
southtecaviation.com

Date: June 21, 2018 | Lycoming IO-360-M1A | S/N: RL-16629-51E | Reg: N382KD
 Tach: 2379.8 hrs. TSMOH: 0.0 hrs. TTE: 4119.6 hrs. Hobbs: 3315.2 hrs.

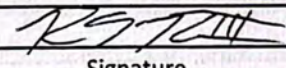
Removed Lycoming engine IO-360-M1A, S/N: (L-33327-51E). Installed overhauled engine, Lycoming IO-360-M1A, S/N: (RL-16629-51E). Installed with oil hoses, P/N: (AE366316H0313) and P/N: (AE3663162H0157). Serviced engine with Aeroshell w100 Plus, Aviation Mineral Oil. Installed new air filter, P/N: (FR-08504). Installed Hartzell brush holder assembly, P/N: (ALU-3045BS). Pressure tested oil cooler in accordance with Diamond DA40 AMM, no defects noted at this time.

All work completed in accordance with manufacturer's Maintenance Manual.

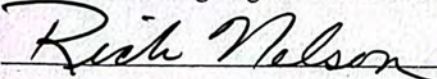

 Glenn M. Lawler

A&P 2151929 IA

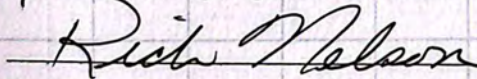
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					

 BLUE LINE TECHNICAL SERVICES		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. (919)578-3728 Smithfield NC, 27577		Engine	
Make: Diamond		Model: DA-40		9/11/2018	
Reg. No. N382KD		Serial No.: 40.788			
IO360-M1A		Hobbs: 3343		Tach: 2401.8	
Work Performed: Oil change. Drained oil. Removed filter. Serviced with 7qts Phillips X/C 20W50, replaced filter with new CH48110-1. Ground run and leak check normal.					
Robert T Robinson III A&P 4074592				9/11/2018	
Name/ Certificate No.		Signature		Date	

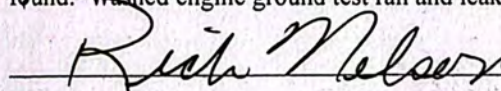
11-06-2018 TACHOMETER: 2452.3 TT ENGINE: _____ TTSMOH: _____
 DIAMOND DA-40 S/N 40.788 N#382KD
 Drained oil and removed oil filter. Installed new CH48110-1 oil filter and serviced engine with 8 QTS. Phillips X/C 20W50 oil. Old oil filter inspected for metal-none found. Washed engine ground test ran and leak checked. No leaks.


 RICK NELSON A&P3253535

12-10-2018 TACHOMETER: 2506.8 TT ENGINE: _____ TTSMOH: _____
 DIAMOND DA-40 S/N 40.788 N#382KD
 Drained oil and removed oil filter. Installed new CH48110-1 oil filter and serviced engine with 8 QTS. Phillips X/C 20W50 oil. Old oil filter inspected for metal-none found. Washed engine ground test ran and leak checked. No leaks.


 RICK NELSON A&P3253535

01-23-2019 TACHOMETER: 2546.5 TT ENGINE: _____ TTSMOH: _____
 DIAMOND DA-40 S/N 40.788 N#382KD
 Drained oil and removed oil filter. Installed new CH48110-1 oil filter and serviced engine with 8 QTS. Phillips X/C 20W50 oil. Old oil filter inspected for metal-none found. Washed engine ground test ran and leak checked. No leaks.


 RICK NELSON A&P3253535

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					

Carried forward

STA
SouthTecAviation
 Office: 704-431-6862

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

Date: March 26, 2019 | Lycoming IO-360-M1A | S/N: RL-16629-51E | Reg: N382KD
 Tach: 2580.8 hrs. TTE: 4320.6 hrs. TSMOH: 201.0 hrs.

AD 2015-19-07 due inspection of external fuel injector lines. Complied with an accordance with Lycoming Engines MSB No. 342G. Next Due: MARCH 2020 or 2690.8 hrs. Compression Test: #1) 78/80, #2) 76/80, #3) 75/80, #4) 77/80. Collected oil sample and sent to Blackstone Laboratories for analysis. Cut oil filter, no metal noted. Changed oil and serviced with seven quarts of **Aeroshell w100 Plus**. Installed CH48110-1 Champion oil filter. Cleaned and gapped spark plugs. Replaced spark plug gaskets (P/N): M-674. Replaced bracket air filter, P/N:(BA368E). Reinstalled fitting and fuel line #2 to prevent leaking at divider. Powerflow exhaust system inspection completed in accordance with Report No. PFS-15250-00. Replaced exhaust gaskets P/N:(77611). Replaced EGT probe on cylinder #4, P/N:(A002BG-WIP). Checked magneto timing. Degreased engine compartment. Ground ran engine, no faults noted. Maintenance performed in accordance with Diamond Aircraft Industries DA40-180 AMM, Rev.7 and Lycoming Engine Repair Manual. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.//////END////////

Michael S. Doud
 Michael S. Doud

A&P 304660342 IA



Fixed Wing Aviation Maintenance
 Lakeland Linder Regional Airport (KLAL)
 3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM
 Lakeland FL 33811 863-606-5757

Date: 5/24/2019; Aircraft: N382KD; Type: DIAMOND; S/N: 40.788; Hobbs: 3602.10; Tach: 2616.70; Total Time: 2616.70; Engine - Type: IO360M1A, S/N: RL-16629-51E, Time: 2616.70; Prop - Type: HC-C2YR-1BFP, S/N: NS1996B, Time: 2616.70

Drained oil and serviced with 8 quarts of Aeroshell 100W Plus. Removed and replaced oil filter and cut open oil filter for inspection. Installed cowl and performed run-up.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

Steve Miller *Steve Miller* A&P 2700197



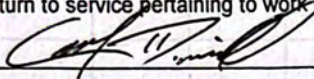
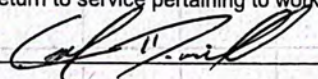
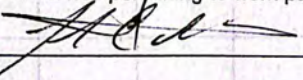
Fixed Wing Aviation Maintenance
 Lakeland Linder Regional Airport (KLAL)
 3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM
 Lakeland FL 33811 863-606-5757

Date: 6/12/2019; Aircraft: N382KD; Type: DIAMOND; S/N: 40.788; Hobbs: 3647.00; Tach: 2656.70; Engine - Type: IO360M1A, S/N: RL-16629-51E, Time: 2656.70

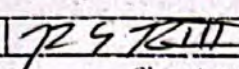
Drained oil and serviced with 8 quarts of Aeroshell 100W Plus. Removed and replaced oil filter and cut open oil filter for inspection. Installed cowl and performed run-up.

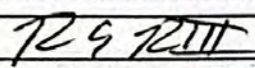
The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

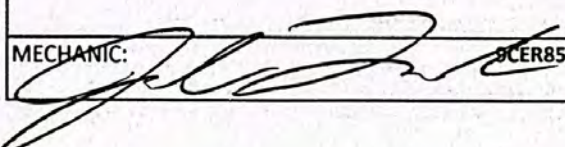
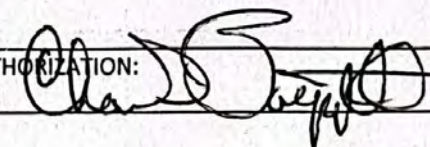
Jacob Johnson *Jacob Johnson* A&P 3855457

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward →					Fixed Wing Aviation Maintenance Lakeland Linder Regional Airport (KLAL) 3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM Lakeland FL 33811 863-606-5757
Date: 6/13/2019; Aircraft: N382KD; Type: DIAMOND; S/N: 40.788; Hobbs: 3647.40; Tach: 2656.70; Engine - Type: IO360M1A, S/N: RL-16629-51E					
- Removed propeller, removed and replaced crank shaft seal with new as required, reinstalled propeller.					
The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.					
Carl Dwinnell  A&P 3722251					
Fixed Wing Aviation Maintenance Lakeland Linder Regional Airport (KLAL) 3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM Lakeland FL 33811 863-606-5757					
Date: 8/01/2019; Aircraft: N382KD; Type: DIAMOND; S/N: 40.788; Hobbs: 3713.10; Tach: 2702.50; Engine - Type: IO360M1A, S/N: RL-16629-51E					
Drained oil and serviced with 8 quarts of Aeroshell W100 Plus. Removed and replaced oil filter and cut open oil filter for inspection. Installed cowlings and performed run-up.					
The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.					
Carl Dwinnell  A&P 3722251					
Fixed Wing Aviation Maintenance Lakeland Linder Regional Airport (KLAL) 3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM Lakeland FL 33811 863-606-5757					
Date: 9/11/2019; Aircraft: N382KD; Type: DIAMOND; S/N: 40.788; Hobbs: 3775.00; Tach: 2756.50; Total Time: 2756.50; Engine - Type: IO360M1A, S/N: RL-16629-51E					
-Drained oil and serviced with 8 quarts of A/S 100+. Removed and replaced oil filter and cut open oil filter for inspection. Installed cowlings and performed run-up.					
The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.					
Jonathan Coradin  A&P 3502686					

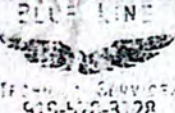
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carried forward →					

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. (919)578-3728 Smithfield NC 27577		Engine	
Make: Diamond		Model: DA-10		10/23/2019	
Reg. No. N382KD		Serial No.: 40.788			
IO360-M1A		Hobbs: 3795.2		Tach: 2772.1	
Work Performed: C/W AD 2015-1907, inspected fuel lines and clamps. Condition good at this time. Next due 2882.1 Tach.					
Robert T Robinson III A&P 4074592				10/23/2019	
Name/ Certificate No.		Signature		Date	

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		Engine	
919-578-3728					
Make: Diamond	Model: DA40	Serial No: 40.788	Tach: 2783.4		
Reg. No: N382KD	Eng Model: IO-360-M1A	Eng S/N: RL-16629-51E	TT Adjust: 0		
WORK PERFORMED:	SMOH: 403.6	Eng TT: 4523.2	Total Time: 2783.4		
Removed engine from aircraft for overhaul/repairs due to collapsed roller tappet.					
Robert T Robinson III A&P 4074592				4/16/2020	
Name/ Certificate No.		Signature		Date	

DATE: June 9, 2020	ENGINE MODEL: IO360M1A	ENGINE S/N: RL-16629-51E	ENGINE TT / TSMOH 4523.2 / 403.6
 CONTINENTAL SERVICES			
This engine was delivered to Continental Services for an IRAN inspection. This engine was disassembled, cleaned, inspected, reassembled, and test run IAW procedures outlined in Lycoming Overhaul Manual 60294-7 (revision date of 07/2011). The following serialized components were installed: crankcase (CSI-30508), camshaft (V53791818), magnetos (G-09001, I-01223). I certify that this engine has been inspected and repaired as indicated above, and was determined to be in an airworthy condition with respect to the work performed. Details of the repairs are on file at this facility under work order # ES-9565.			
MECHANIC: 		AUTHORIZATION: 	
9CER853B		9CER853B	

 Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 919-578-3728		Engine	
Make: Diamond	Model: DA40	Serial No: 40.788	Tach: 2783.4
Reg. No: N382KD	Eng Model: IO-360-M1A	Eng S/N: RL-16629-51E	Total Time: 2783.4
WORK PERFORMED:		SMOH: 403.6	Eng TT: 4523.2
		Hobbs: 3812.6	
Annual Inspection. Reinstalled engine after repair by Continental Services on work order no. ES-9565. Serviced engine with 7 Qts Phillips 20W50 mineral oil. Performed Powerflow inspection and antiseized pipe slip joints, good at this time, next due 3283.4TT or August 1, 2021. Reinstalled exhaust with new gaskets and hardware. AD 15-19-07 C/W IAW Lycoming MSB No. 342G, dated July 16, 2013. Next due at 2883.4 TT. Replaced exhaust clamp (P/N: 8031D). Replaced all EGT probes with new (P/N: A002BG-WIP). All ADs checked for compliance. Ground run and leak check good. I certify that this engine has been inspected IAW an Annual Inspection per FAR 43 App. D and Lycoming MM and was determined to be in airworthy condition.			
Rachel Weindt A&P/IA 3889290		<i>Rachel Weindt</i>	7/20/2020
Name/ Certificate No.		Signature	Date

 Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 919-578-3728		Engine	
Make: Diamond	Model: DA40	Serial No: 40.788	Tach: 2783.4
Reg. No: N382KD	Eng Model: IO-360-M1A	Eng S/N: RL-16629-51E	Total Time: 2783.4
WORK PERFORMED:		SMOH: 403.6	Eng TT: 4523.2
		Hobbs: 3813	
Pilot reported loss of propeller RPM control while doing ground run-up. Found prop gov cable to be broken at control lever end. Replaced cable (P/N: DAI-9076-00-03). Ground run and ops check good.			
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>	7/31/2020
Name/ Certificate No.		Signature	Date

 Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 919-578-3728		Engine	
Make: Diamond	Model: DA40	Serial No: 40.788	Tach: 2797.4
Reg. No: N382KD	Eng Model: IO-360-M1A	Eng S/N: RL-16629-51E	Total Time: 2797.4
WORK PERFORMED:		SMOH: 417.6	Eng TT: 4537.2
		Hobbs: 3833.2	
Pilots reported oil temp hot. Performed compression checks, all cylinders were above 70PSI. Removed and inspected oil screen, no contaminants. Drained oil and pulled sample. Removed oil cooler and sent to Pacific Oil Cooler Service, Inc for repair, work performed under Work Order #141723. Reinstalled oil cooler after maintenance. Serviced engine with 7 Qts Philips 20W-50 XC and replaced oil filter with new (P/N: AA48110-2). Rerouted prop gov cable to avoid fuel lines. Installed baffles screws where missing. Rerouted electrical wire under prop gov cable and resafitted electrical plug. Tightened oil return line. Replaced #1 air intake gasket with new (P/N: 71973). Ground run and leak check good.			
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>	10/20/2020
Name/ Certificate No.		Signature	Date



ENGINE LOGBOOK ENTRY



Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: JAN 26-2021
HOBBS: 3944.8

ENG S/N: RL-16629-51E
ENG TSOH: 503.9
Tach: 2883.7

Complied with 100 hr Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 77/80, #2 77/80, #3 76/80, #4 77/80. Checked Magnetos timing and contact points, removed cleaned gaped & rotated all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). This engine was serviced with 8 QTs of X/C 20W50 oil and Champion CH48110-1 filter in JAN 02-2021 Tach: 2849.6. CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Cleaned engine area, performed engine ran for leaks, none noted.

I certify that the Engine above was Inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO 3147836 A&P

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ENGINE LOGBOOK ENTRY



Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: FEB 06-2021
HOBBS: 3965.6

ENG S/N: RL-16629-51E
ENG TSOH: 518.6
Tach: 2898.4

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 8 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.


JUAN M DELGADO 3147836 A&P

Total Time

Time Since Last
Overhaul

Engine Service and Maintenance Record



ENGINE LOGBOOK ENTRY



Date: MAR 15-2021

Acft: N382KD

HOBBS: 4032.9

ENG S/N: RL-16629-51E

DIAMOND: DA-40

ENG TSOH: 567.3

S/N: 40.788

Tach: 2947.1

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 8 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.

 Signature of Juan M Delgado.

JUAN M DELGADO 3147836 A&P


ENGINE LOGBOOK ENTRY



Date: APRIL 03-2021

Acft: N382KD

HOBBS: 4088.6

ENG S/N: RL-16629-51E

DIAMOND: DA-40

ENG TSOH: 607.8

S/N: 40.788

Tach: 2987.6

Complied with 100 hr Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 77/80, #2 79/80, #3 76/80, #4 78/80. Checked Magnetos timing and contact points, removed cleaned gaped & rotated all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). Replaced all valve cover gasket with new P/N: RG75906 Silicone valve cover gasket. CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. This engine was not serviced with oil or filter at this time. Cleaned engine area, performed engine run for leaks, none noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.

 Signature of Juan M Delgado.

JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Date: APRIL 06-2021

Acft: N382KD

HOBBS: 4105.1

ENG S/N: RL-16629-51E

DIAMOND: DA-40

ENG TSOH: 618.5

S/N: 40.788

Tach: 2998.3

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 8 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.


JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Date: APRIL 26-2021

Acft: N382KD

HOBBS: 4159.7

ENG S/N: RL-16629-51E

DIAMOND: DA-40

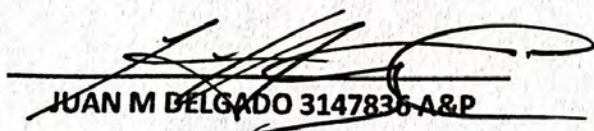
ENG TSOH: 681.3

S/N: 40.788

Tach: 3061.8

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 8 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.


JUAN M DELGADO 3147836 A&P

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					



ENGINE LOGBOOK ENTRY



Date: MAY 04-2021

Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 4207.3

ENG S/N: RL-16629-51E
ENG TSOH: 694.1
Tach: 3073.9

Complied with 100 hr Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 77/80, #2 77/80, #3 79/80, #4 72/80. Checked Magnetos timing and contact points, removed cleaned gaped & rotated all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). Replaced all valve cover gasket with new P/N: RG75906 Silicone valve cover gasket. CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. This engine was not serviced with oil or filter at this time. Cleaned engine area, performed engine run for leaks, none noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.

JUAN M. DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Date: MAY 18-2021

Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 4260.6

ENG S/N: RL-16629-51E
ENG TSOH: 734.5
Tach: 3114.3

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.

JUAN M. DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: JUNE 22-2021
HOBBS: 4343.4

ENG S/N: RL-16629-51E
ENG TSOH: 794.2
Tach: 3174.0

Complied with 100 hr inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 78/80, #2 79/80, #3 78/80, #4 78/80. Checked Magnetos timing and contact points, removed cleaned gaped & rotated all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). Replaced #1 cylinder intake gasket with new P/N: 71973. CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.

JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: JULY 16-2021
HOBBS: 4410.8

ENG S/N: RL-16629-51E
ENG TSOH: 843.9
Tach: 3223.7

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.

JUAN M DELGADO 3147836 A&P

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					



ENGINE LOGBOOK ENTRY



Date: AUG 03-2021

Acraft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 4475.4

ENG S/N: RL-16629-51E
ENG TSOH: 891.5
Tach: 3271.3

Complied with 100 hr Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 79/80, #2 78/80, #3 77/80, #4 76/80. Checked Magnetos timing and contact points, removed cleaned gaped & rotated all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). Replaced #1 cylinder intake gasket with new P/N: 71973. CW AD-2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Date: SEP 03-2021

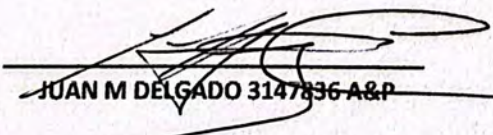
Acraft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 4546.9

ENG S/N: RL-16629-51E
ENG TSOH: 944
Tach: 3323.8

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.


JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: SEP 09-2021
HOBBS: 4411.7

ENG S/N: RL-16629-51E
ENG TSOH: 990.4
Tach: 3370.2

Complied with 100 hr Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 76/80, #2 78/80, #3 75/80, #4 78/80. Checked Magnetos timing and contact points, removed cleaned gaped & rotated all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). Replaced #3 cylinder intake gasket with new P/N: 71973. CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the Engine above was Inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: NOV 03-2021
HOBBS: 4687.7

ENG S/N: RL-16629-51E
ENG TSOH: 1042.9
Tach: 3422.7

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the above work was accomplished, Inspected, found in airworthy condition and approved for return to service.


JUAN M DELGADO 3147836 A&P

Total Time

Time Since Last
Overhaul

Engine Service and Maintenance Record



ENGINE LOGBOOK ENTRY



Date: NOV 22-2021

Acft: N382KD

HOBBS: 4751.9

ENG S/N: RL-16629-51E

DIAMOND: DA-40

ENG TSOH: 1090.5

S/N: 40.788

Tach: 3470.3

Complied with 100 hr inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 77/80, #2 7/80, #3 76/80, #4 77/80. Checked Magnetos timing and contact points, removed and replaced all 8 spark plugs with new Champion REM38E installed with new gasket P/N: MS17840-1 (8). Replaced # 3 cylinder intake gasket with new P/N: 71973. CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.

JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Date: DEC 23-2021

Acft: N382KD

HOBBS: 4822.9

ENG S/N: RL-16629-51E

DIAMOND: DA-40

ENG TSOH: 1142.2

S/N: 40.788

Tach: 3522.0

Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the above work was accomplished, inspected, found in airworthy condition and approved for return to service.

JUAN M DELGADO 3147836 A&P

Total Time

Time Since Last
Overhaul

Engine Service and Maintenance Record



ENGINE LOGBOOK ENTRY

A/cft: N382KD
DIAMOND: DA-40
S/N: 40.788

Date: FEB 02-2022
HOBBS: 4895.2

ENG S/N: RL-16629-51E
ENG TSOH: 1192.8
Tach: 3572.6

Complied with 100 hr Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 77/80, #2 77/80, #3 76/80, #4 75/80. Checked Magnetos timing and contact points, removed and cleaned and gaped all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 8 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO S147836 A&P

Date: 04/13/2022 Hours: Tach: 3721.3

Tail#: N382KD

Make: Diamond (Austria) Model: DA 40 S/N: 40.788

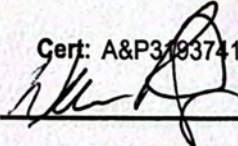
Drained oil. Added 7 qts Phillips 20W-50 and Champion CH48110-1 filter. Runup leak and ops checks good.

As to the work performed, this aircraft is in airworthy condition.

Name: William Cross

Co: Flying High Again Aviation

Cert: A&P31837411A

Sign: 

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					



ENGINE LOGBOOK ENTRY



Date: MARCH 23-2022

A/cft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 5031.3

ENG S/N: RL-16629-51E
ENG TSOH: 1291.8
Tach: 3671.6

Complied with 100 hr. inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 76/80, #2 75/80, #3 73/80, #4 78/80. Checked Magnetos timing and contact points, removed and cleaned and gaped all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: CH48110-1, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.

JUAN A. DELGADO 3147836 A&P

Date: 05/10/2022 Hours: AC: 3769.3 TT: 3769.3 EngTT: 1389.5 PropTT: 1956.7

Tail #: N382KD Hobbs: 5165.0 Misc:

Make: Diamond (Austria) Model: DA 40 S/N: 40.788

100 hour inspection ref Lycoming maintenance manual and FAR 43.13 Appendix D. Aircraft was run up and compressions checked hot: #1 76/80, #2 75/80, #3 73/80, #4 78/80. Oil was drained, oil and filter changed with 7 quarts Phillips 20W-50 and Tempest AA48110-2. Filter was cut and checked negative contaminants. Plugs were cleaned, gapped and rotated. Magneto timing checked good. Air filter was serviceable. C/W AD 15-19-07 11-03-2015 Fuel injector Lines and Clamps C/W by inspection. Next due 3867.7 tach. Engine control cables checked and lubed.

I certify that this ENGINE has been inspected IAW a 100 hour inspection and found in Airworthy condition.

Name: William Cross

Cert: A&P314741IA

Co: Flying High Again Aviation

Sign:

Date: 05/31/2022 Hours: TT: 3820.2 Hobbs: 5231.6
Tail#: N382KD

Make: Diamond (Austria) Model: DA 40 S/N: 40.788

Oil changed with 7 qts Phillips 20W-50 oil and AA48110-2 filter. Filter was cut and examined, no discrepancies found. Runup, leak and ops checks good.

As to the work performed, this aircraft is in airworthy condition.

Name: William Cross

Co: Flying High Again Aviation

Capt. A&P 3741A

Sign:

Service and Maintenance Record

maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Airframe Inspections, Modifications and Service Bulletins



ENGINE LOGBOOK ENTRY



Date: JUNE 25-2022

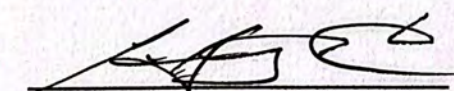
Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 5298.7

ENG S/N: RL-16629-51E
ENG TSOH: 1488.8
Tach: 3868.6

Complied with 100 hr. Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 76/80, #2 76/80, #3 75/80, #4 77/80. Checked Magnetos timing and contact points, removed and cleaned and gaped all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, No defect noted at this time. Drained oil and replaced filter with new PN: AA48110-2, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine run for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO 3147836 A&P



ENGINE LOGBOOK ENTRY



Date: AUG 15-2022

Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 5433.1

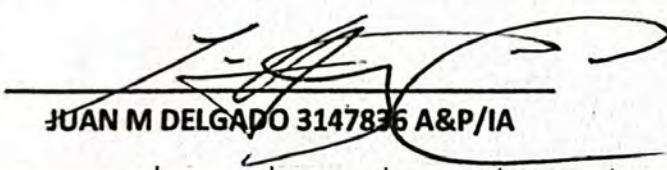
ENG S/N: RL-16629-51E

ENG TSOH: 1589.5

Tach: 3969.3

Complied with Annual Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 77/80, #2 78/80, #3 76/80, #4 77/80. Checked Magnetos timing and contact points, removed and replaced all 8 spark plugs with new Champion REM38E, installed with new gasket P/N: MS17840-1 (8). CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, no defect noted at this time. Drained oil and replaced filter with new PN: AA48110-2, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qtrs. of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO 3147836 A&P/IA



ENGINE LOGBOOK ENTRY



Date: OCTOBER 20-2022

Acft: N382KD
DIAMOND: DA-40
S/N: 40.788

HOBBS: 5559.4

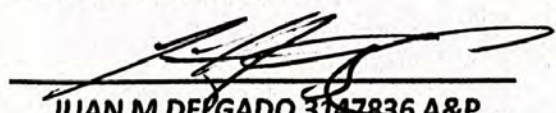
ENG S/N: RL-16629-51E

ENG TSOH: 1682.8

Tach: 4062.6

Complied with 100 hr. Inspection in accordance with FAR Part 43 Appendix D, using Diamond Maintenance Manual Inspection Form. Complied with AD research none apply at this time. Performed Differential Pressure Check: #1 50/80, #2 76/80, #3 74/80, #4 78/80. Replaced #1 cylinder with overhauled unit PN: LW-12427 S/N: 1444-2, due to a low compression. Checked Magnetos timing and contact points, removed and cleaned and gaped all 8 spark plugs, installed with new gasket P/N: MS17840-1 (8). CW AD 2015-19-07 Fuel Injector Lines Visual Inspection in accordance with Lycoming MSB 342G Dated Feb 27-2018, no defect noted at this time. Drained oil and replaced filter with new PN: AA48110-2, removed & cleaned suction screen, cut open filter inspected in accordance with Lycoming SB #480F noted at this time. Serviced engine with 7 Qts of Phillips X/C 20W50. Cleaned engine area, performed an engine ran for leaks. None noted.

I certify that the Engine above was inspected, in accordance with DA 40 Series 100 Hours Inspection Form Chapter 05-28-00 and 05-28-50. And is approved for return to service.


JUAN M DELGADO 3147836 A&P

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Carried forward →					

Registration #: N328KD
 Manufacturer:
 Serial No: N/A
 Part/Model No:
 Work Order No: 1117



TACH: 4,149.70
 HOBBS: 5,678.60
 A/C Total Time: 4,149.70
 Engine TSN:
 Date: 03/31/2023

- Drained oil and removed old oil filter. Cut open old oil filter and inspected. No metallic debris found. Installed new Tempest oil filter P/N AA48110-2 and serviced engine with 7 qts of Phillips SAE 20W-50. Ground ran and leak checked. No leaks found at this time.
- Re-wired engine baffling.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 1117 dated .

Date: 3/31/23 Signature: [Signature] Work Order: 1117
 AP Number: 3713942

Registration #: N328KD
 Manufacturer: Lycoming Div Avco Corp
 Serial No: RL-16629-51E
 Part/Model No: IO-360-M1A
 Work Order No: 1622



TACH: 4,157.30
 HOBBS: 5,696.10
 A/C Total Time: 4,157.30
 Engine TSN: 1,777.50
 Date: 10/25/2023

- Annual Inspection. Performed compression #1 - 77, #2 - 73, #3 - 74, #4 - 71 all over 80. Ground run and ops check good. Checked all ADs for compliance. I certify this engine has been inspected IAW an Annual inspection per FAR 43 App. D and Lycoming MM and was determined to be in an airworthy condition.
- Engine data plate missing. Submitted information to overhauler and recieved new data plate with letter from FAA approving the replacement. Installed new engine data plate with serial number "RL-16629-51E".
- Installed new crush washer on oil filter housing sensor. Leak check good.
- AD 2015-19-07 C/W at this time by inspection. Good at this time, next due at 4267.3TT.
- Installed new valve cover gasket P/N SL-75906 on #4 cylinder. Ground ran, leak check good.
- Cleaned debris out of oil cooler fins.
- Rerouted and secured prop gov cable to keep from touching fuel lines per AD 2015-19-07.
- Replaced starter bolt and washer with serviceable spare.
- Installed serviceable spare bolt and hardware at accessory case at RH mag spacer.
- Adjusted lean rise and idle RPM.

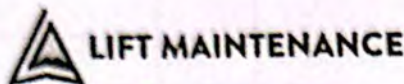
THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 1622 dated .

Date: 10/25/2023 Signature: Rachul Wianat Work Order: 1622
 AP Number: AP 38292901A

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Carried forward →					Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Registration: N382KD
 Engine ESN: RL 16629-51E
 Engine TSN: 4259.1 TSO N/A
 AC Serial Number: 40.788
 Airframe TT: 4257.30
 WO: 6840



Maintenance performed:

Performed an 100hr inspection IAW 14 CFR 43.13 Appendix D using Diamond DA40 AMM and Lycoming IO-360 M1A manual ref. Drained oil, removed/ cut open oil filter, found no metal, installed new AA48110-2 oil filter and serviced engine with Phillips XC 20W-50 oil. Removed, cleaned, inspected, serviced and reinstalled air cleaner element. Lubricated engine and propeller controls per Diamond AMM and inspected alternate air mechanism. Cylinder compressions: 1.76/80 2.71/80 3.76/80 4.78/80. Spark plugs removed, cleaned, gapped, rotated and reinstalled. Magneto timing checked and no adjustment was necessary. Complied with AD 2015-19-07 by visual inspection of fuel injection lines and clamps IAW Lycoming engines mandatory service bulletin MSB no. 342G, dated July 16 2013, no defects noted, next due at Tach: 4359.1. Engine approved for return to service at this time. Engine inspected IAW a 100hr inspection and was determined to be in airworthy condition at this time.

Date: 2/28/2024

Signature:

BRIAN DOLGAS 3779058 A&P

Registration: N382KD ESN: RL-16629-51E
 Engine TTSN 4,547.5 TSO 1971.2
 AC Serial Number: 40.788
 Airframe TT: 4351.00
 WO: 7267



Maintenance performed:

complied with 100 HR inspection and referencing the aircraft and engine mms compressions cylinder 1# 74/80 2# 73/80 3# 75/80 4# 71/80. Drained the engine, and replaced the engine oil and oil filter. Inspected the old oil filter, found ok. I serviced engine oil with 8 quarts of phillips xc 20w50. performed AD 2015-19-07 on the fuel lines and noted no defects, next due 4451.0 AFTT. run up and leak check good. I certify that this engine has been inspected IAW 100 Hr. inspection and was found to be airworthy.

Date: 4/22/2024

Signature:

Phillip Dickinson 4474866 A&P

Model: DA40
 S/N. 40.788
 Reg # N382KD

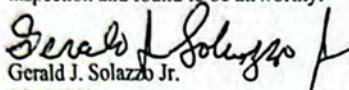


Date: 5/27/2024
 Tach: 4444.7

TSNEW:
 TSMult: 2064.9

1. Performed an 100hr inspection IAW 14 CFR FAR 43.13 Appendix (D) using Diamond DA40 AMM and Lycoming IO-360-M1A manual ref.
 2. Drained oil, removed oil filter, cut open filter, no metal noted. Installed new AA48110-2 oil filter and serviced engine with Phillips XC 20W-50 oil
 3. Removed, cleaned, inspected, serviced, and re-installed air cleaner element
 4. Lubricated engine and propellor controls per diamond AMM and inspected alternate air mechanism
 5. Compression ck C/W 1-79 2-76 3-78 4-78
 6. Spark plugs removed, cleaned, gapped, rotated and reinstalled
 7. Magneto timing checked and adjusted as necessary
 8. Complied with AD 2015-19-07 by visual inspection of fuel injection lines and clamps IAW Lycoming Engines Mandatory Service Bulletin (MSB) No. 342G, dated July 16 2013, No defects noted. Next due 4554.7 TACH
 9. Set idle mixture and idle per lycoming service manuals instructions
- AD's checked biweekly thru this date, no new AD's apply at this time
 Engine approved for return to service at this time
 Engine inspected IAW a 100hr inspection and was determined to be in airworthy condition at this time

Jace
 Zachary Braddock 3310705 A&P

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hours	Min	Hours	Min	
Carrie	AC: Diamond DA40 Eng TSN: Hobbs: REG: N382KD Cycles: AC S/N: 40.788 WO: GJS24-002 TACH: 4450.9 Date: 06/07/2024				
	<u>Complied with the following inspections / Tasks:</u>				<u>Maintenance Items:</u> - Found faulty LH magneto. Removed left magneto (pn: 4347), (sn: G-09001) and installed overhauled magneto same pn., (sn: H-X060173). Timed left and right magnetos as necessary. Ops checked good.
	The article identified above was repaired and inspected in accordance with current FAA regulations and was found to be airworthy and is approved for return to service. I certify this aircraft has been inspected in accordance with the above listed inspection and found to be airworthy.				
	 Gerald J. Solazzo Jr. AP4800376				

LIFT MAINTENANCE

Registration: N382KD
AC Serial Number: 40.788
Airframe TT: 4538.80
WO: \$192
Engine S/N: RL-166
Maintenance performed:

Nicholas Len 4202960 A&P

23

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record
	Hours	Min	Hours	Min	
Record maintenance actions including engine part removal and installation and compliance with inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins					
Carri	Model: DA40-180				Date: 1/6/2025
	Reg # N382KD				Tach: 4708.2
RH tire and tube replaced with new Goodyear 6.00-6 6 ply tire and goodyear tube <i>[Signature]</i> Zachary Braddock 3310705 A&P					

CRAFT
FLIGHT TRAINING & SIMULATION

Model: DA40
S/N. 40.788
Reg # N382KD

CRAFT
FLIGHT TRAINING & SIMULATION
890 Greyback Rd, Summerville, SC 29483

Date: 1/8/2025
Tach: 4708.00

RH brake pedal soft, serviced RH fluid reservoir with MIL 5606 hydraulic fluid and ops check good
Aircraft approved for return to service at this time

[Signature]
Zachary Braddock 3310705 A&P

ENGINE

N382KD – FEB 27, 2025 LYCOMING IO360M1A S/N- RL-16629-51E

Cleaned, lubed and serviced Engine as per FAR 43 appx D, with AC43.13 and Lycoming IO360-M1A series AMM. Replaced Oil filter with Tempest AA481101-2 filter. Serviced Engine with 7 Qts Phillips XC20W50 oil.. Engine run and systems check normal, with no leaks observed. Cut oil filter with no metal noted. Replaced all 8 spark plugs with Champion REM38E Spark plugs due to being worn to limits.

No Recurrent AD's at this time. See airplane records for AD Compliance.

Airframe	TT	4725.5	Tach	4725.5
Eng	TT	6465.3	SMOH	2345.7
Propeller	TT	2912.9	SMOH	2912.9

Compressions: 1/76 2/76 3/74 4/77

I certify that this engine has been inspected in accordance with a 100 HR inspection, and was found to be in a airworthy condition.

Harry Ketchel –A&P# 2790864

[Signature]

ected, and
7 & FAA
I for return
at details of

MAKE	RL
S/N	
TSMOH	

1A

Signed: Thomas W. Nelson Date: 2/19/2026

1 Drive, Box 2
560

INSTRUCTIONS/WORK DESCRIPTION

[1A engine, S/N RL-16629-51E.

A engine, S/N RL-16629-51E in accordance with Lycoming Direct Drive
-7 and FAA Regulations.

paired by ACS (WO 296524)

New from Lycoming (MS-604476)

5100251, P/N 4347, S/N 25070881 - New from Champion

m Chamion (PO 43799)

188K22 - New from AA (PO 43593)

CF06O701 - Overhauled by CFS (006O7)

N AE99802 - Overhauled by Precision Airmotive (JO I1M3R)

Overhauled by Precision Airmotive (IIMIG)

1750 - Repaired by RRO (59690)

onent is approved for return to service. All pertinent
station. TRIAD AVIATION, INC. FAA REPAIR

Weller Date: 02/19/2026

	Total Labor	38,800.00
	Total Parts	
	MISC PARTS	
	SHIPPING	400.00
	Customer Deposit	
	TOTAL	39,200.00

Triad Aviation, Inc. FAA Repair Station #PP4R448M 3439 South Aviation Drive Burlington, NC 27215 Telephone (336) 227-1467		EMAIL accounting@lifestyleaviation.com MAKE Lycoming MODEL IO-360-M1A REGISTRATION NO. N382KD SERIAL NO. RL-16629-51E		INVOICE NO. 4702 DATE 6/26/2025 WRITTEN BY LB P.O. NO. Total Time 6465.3	
NAME Lifestyle Aviation ADDRESS 1730 E International Drive, Box 2 Morrisville, NC 27560					
INSTRUCTIONS/WORK DESCRIPTION					
Overhaul Lycoming IO-360-M1A engine, S/N RL-16629-51E. Overhaul Lycoming IO-360-M1A engine, S/N RL-16629-51E in accordance with Lycoming Direct Drive Engine Overhaul Manual 60294-7 and FAA Regulations. Overhauled and test ran. Camshaft - P/N 15M23455 - Repaired by ACS (WO 296524) Cylinders (4) - P/N 05K21104 - New from Lycoming (MS-604476) Magnetos (2) - P/N 4370, S/N 25100251, P/N 4347, S/N 25070881 - New from Champion Harness - P/N M4004 - New from Chamion (PO 43799) Fuel Pump - P/N AF-15473, S/N 188K22 - New from AA (PO 43593) Servo - P/N AV2576568-1, S/N CF060701 - Overhauled by CFS (00607) Flow Divider - P/N 257564-1, S/N AE99802 - Overhauled by Precision Airmotive (JO I1M3R) Nozzle Assy - P/N 2524864-2 - Overhauled by Precision Airmotive (I1M1G) Connecting Rods (4) - P/N LW11750 - Repaired by RRO (59690) AD's on page 2					
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: <u><i>Anthony Nelson</i></u> Date: <u>02/19/2026</u>					
		Total Labor		38,800.00	
		Total Parts			
		MISC PARTS			
		SHIPPING		400.00	
		Customer Deposit			
		TOTAL		39,200.00	