

Flight Training

N985JA L/H Engine Logs

Engine Maintenance Records

Log Number:	
Aircraft Registration Number:	
Engine Manufacturer: LyComicoc	
Model: 10-300-MIA	
Serial Number: L-31498-51A	
Date Installed on Aircraft:	
Time Between Overhauls: 2000 Hours	
Engine Position:	

The Power of Experience

Penn Yan Aero 2499 Bath Road, Penn Yan, NewYork 14527 U.S.A. 315-536-2333

FAA Repair Station: Y2GR396Y www.PennYanAero.com

Description of Work Performed Certificate Number & Signature of Technician Performing Work		Our WO# Dated 54504-21 4/26/2021	Engine Model Serial Number IO-360-M1A L-31498-51A	This engine has been overheaded to Zere Time Tolorances by Penn Yan Aero	Previous Time in Service 2382.3	Penn Yan Aero	2499 Bath Road, Penn Yan, New York 14527	www.pennyanaero.com FAA Approved Renair Station: V2GR3GRV				COPYRIGHT & 2016 PENN YAN AFRO ALL RIGHTS RESERVED
Descriptio Certificate Number & Sigr	Balance Forward	This is to certify that the engine described hereafter has been overhauled by Penn Yan	Aero to frew parts tolerances and limits as specified by the manufacturer. Engine disassembled, cleaned, inspected, repaired, reassembled, and tested in accordance with	data approved by and or acceptable to the FAA. All applicable Airworthiness Directives are in compliance. See A.D. list supplied.		Installed new Lycoming P/N: 05K21104 cylinder kits at this time.			Authorized Signature			Totals – Carry Forward
Tach or Recording Meter Time			T T T T T T T T T T T T T T T T T T T									
Total Time Since Overhaul												
Total Time In Service												
Date												

ork Page: 2		Right Magneto - SN# 21011113	Left Magneto - SN# 20030587	Injector/Carb - SN# 70621204	Fuel Pump - SN# 0J6P21	Starter - SN# H-U121676	Turbo - SN# N/A	Controller - 1 - SN# N/A	Controller - 2 - SN# N/A	Wastegate - SN#			COPYRIGHT © 2016 PENN YAN AERO ALL RIGHTS RESERVED	
Description of Work Performed Certificate Number & Signature of Technician Performing Work		Right Magneto - Part# 4370 (New)	Left Magneto - Part	Injector/Q	Fuel of	149.24 7707	Turbo - Part# N/A	Controller - 1 - Part# N/A	Controller - 2 - Part# N/A	Wastegate - Part# N/A			COPYRIGHT &	
	Balance Forward	The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:	Engine Model IO-360-M1A	Serial Number Our WO# Invoice Date L-31498-51A 54504-21 4/26/2021		John King	Authorized Signature	Penn Yan Aero	2499 Bath Road, Penn Yan, New York 14527 Telephone: 1-315-536-2333	www.pennyanaero.com FAA Approved Repair Station: Y2GR396Y			Totals – Carry Forward	
Tach or Recording Meter Time														
Total Time Since Overhaul														
Total Time In Service										,				
Date														: 42

Tail: N985JA

ETT:

2382.3

TSOH: 0.0

S/N: L-31498-51A

Date: 05/03/2021

TACH: 4475.7

Model: Lycoming IO-360-M1A

Performed an Annual Inspection IAW FAR 43(d) using JAFS Checklist as a guide. Installed engine on N985JA, L/H Position IAW Diamond DA42-L360 MX Manual. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 4575.7 or 05/30/2022, whichever comes first. Serviced engine with 8 QTS of Phillips 20W50 Mineral oil. Verified engine to magneto timing. Lubricated control cables. Performed ground run of 30 Minutes, all engine monitors report normal. Bi-Weeklies checked through 2021-08. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b). I certify that this engine was inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Forrest Benson

IA 373374

JA Flight Services

Tail: N985JA

ETT:

2432.7

TSOH: 50.4

S/N: L-31498-51A

Date: 05/24/2021

TACH: 4526.1

Model: Lycoming IO-360-M1A

Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b).

	Ac	XF 37	33/4	.0	1	•							
Total Sin													
Total Time In Service										· _			
Date													

Tail: N985JA

ETT:

TSOH: 99.0

S/N: L-31498-51A

Date: 06/14/2021

TACH: 4574.7

2481.3

Model: Lycoming IO-360-M1A

Performed an Annual Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 4674.7 or 06/30/2022, whichever comes first. Drained engine oil and removed oil filter. Examined filter for debris, none found. Serviced engine with 8 QTS of Phillips 20W50XC oil. Verified engine to magneto timing. Lubricated control cables. Bi-Weeklies checked through 2021-12. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b). I certify that this engine was inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Forrest Benson

IA 373374*£*

JA Flight Services

Tail: N985JA

ETT:

2526.3

TSOH: 144.0

S/N: L-31498-51A

Date: 07/02/2021

TACH: 4619.7

Model: Lycoming IO-360-M1A

Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b).

Ethan A. Reimer

A&P Pending

JA Flight Services

Tail: N985JA

ETT:

TSOH: 185.6

S/N: L-31498-51A

Date: 08/09/2021

TACH: 4661.3

2567.9

Model: Lycoming IO-360-M1A

Performed a 100 Hour Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 4761.3 or 08/31/2022, whichever comes first. Performed compression test, results as follows: 1. 76/80 2. 74/80 3. 74/80 4. 68/80. Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Cleaned, gapped, and inspected spark plugs. Verified engine to magneto timing. Cleaned and inspected fuel injectors. Lubricated control cables. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b). I certify that this engine was inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.

Ethan A. Reimer

A&P 4520712

Tail: N985JA

ETT:

2606.1

TSOH: 223.8

S/N: L-31498-51A

Date: 09/03/2021

TACH: 4699.5

Model: Lycoming IO-360-M1A

Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC

Ethan A. Reimer

A&P 4520712

JA Flight Services

Tail: N985JA

ETT:

2658.9

TSOH: 276.6

S/N: L-31498-51A

Date: 10/21/2021

TACH: 4752.3

Model: Lycoming IO-360-M1A

Performed a 100 Hour Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 4852.3 or 10/31/2022, whichever comes first. Performed compression test, results as follows: 1. 79/80 2. 70/80 3. 78 4. 78/80. Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Cleaned, gapped, and inspected spark plugs. Verif engine to magneto timing. Cleaned and inspected fuel injectors. Lubricated control cables. Operational and leak checl satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b). I certify that this engine was inspected in accordance with a 100 Hour Inspection and was determined to b in airworthy condition.

Ethan A. Reimer

A&P 4520712

19

JA Flight Services

Tail: N985JA

ETT:

2704.8

TSOH: 322.5

S/N: L-31498-51A

Date: 12/02/2021

TACH: 4798.2

Model: Lycoming IO-360-M1A

Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b).

Ethan A. Reimer

A&P 4520712

Date

Tail: N985JA

ETT: 2745.0

TSOH: 362.7

S/N: L-31498-51A

Date: 01/25/2022

TACH: 4838.4

Model: Lycoming IO-360-M1A

Performed a 100 Hour Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 4938.4 or 01/31/2023, whichever comes first. Performed compression test, results as follows: 1. 79/80 2. 76/80 3. 76/80 4. 80/80. Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Removed and replaced all 8 spark plugs with new, P/N REM38E. Verified engine to magneto timing. Cleaned and inspected fuel injectors. Lubricated control cables. Serviced unfeathering accumulator with nitrogen. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b). I certify that this engine was inspected in accordance with a 100 Hour Inspection and was determined to be

Ethan A. Reimer

A&P 4520712

JA Flight Services

Tail: N985JA

ETT:

TSOH: 375.5

S/N: L-31498-51A

02 03 Date: 42/26/2022

TACH: 4851.2

2757.8

Model: Lycoming IO-360-M1A

Removed and replaced LH engine cylinder #3 EGT probe with new, P/N A002BG-WIP. Operational and lek check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC

Ethan A. Reimer

A&P 4520712

JA Flight Services

Tail: N985JA

ETT:

2790.9

TSOH: 408.6

S/N: L-31498-51A

Date: 03/01/2022

TACH: 4884.3

Model: Lycoming IO-360-M1A

Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b).

Ethan A. Reimer

A&P 4520712 Total Tim-In Service



JA FIIBIIL JEI VICES

Tail: N985JA

ETT:

2838.1

TSOH: 455.8

S/N: L-31498-51A

Date: 03/30/2022

TACH: 4931.5

Model: Lycoming IO-360-M1A

Performed a 100 Hour Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 5031.5 or 03/31/2023, whichever comes first. Performed compression test, results as follows: 1. 78/80 2. 70/80 3. 74/80 4. 72/80. Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Removed, Cleaned, Gapped, and Torqued spark plugs with new crush washers. Verified engine to magneto timing. Cleaned and inspected fuel injectors. Lubricated control cables. Serviced unfeathering accumulator with nitrogen. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b). I certify that this engine was inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.

Ethan A. Reimer

A&P 4520712

Wor of 1 **JA Flight Services**

Tail: N985JA

ETT: 2847.4

TSOH: 465.1

S/N: L-31498-51A

Date: 04/14/2022

TACH: 4940.8

Model: Lycoming IO-360-M1A

Removed and replaced LH engine cylinder #1 EGT probe with new, P/N A002BG-WIP. Operational and leak check satisfactory at this time.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC 43.13.1(b).

Ethan A. Reimer

A&P 4520712

Air Center J.A. Air Center

Repair Station No. NF2R029L 43W730 US RT 30 Sugar Grove, Illinois 60554 Phone: 630.584.3200 DATE: 12 September, 2022 A/C TSN: 4973 6 ENG TT (L). 2880 2 TSMOH (L): 497.9 TACH: 4973.6

Left Engine Entries

ENGINE MODEL: 10-360-M1A

ENGINE S/N (L): L-31498-51A

WORK ORDER: 9867-07-2022

REG. NO: N985JA

2022

- Inspected and serviced this LH engine in accordance with Diamond Aircraft Maintenance Manual, Chapter 5-28-10 Time Limits and Maintenance Checks Document No. 7.02.01 Rev 15 Nov 2021 and Lycoming IO-360 service information for an annual inspection.

 Changed the oil and filter. Compressions were checked as follows; #1-79, #2-74, #3-79 and #4-78 all over 80 PSI. Opened and inspected the filter. Serviced the engine with 8 Qts of Phillips 20W-50 X/C oil and a new CH48110-1 filter.
- LH engine removed and replaced #2 and #4 oil return line tubes. PN: STD1821 as per Lycoming Engines Direct Drive Overhaul Manual 60294-7.
- LH engine #1 cylinder induction tube cracked at the intake port flange and gasket 50% missing.

 Removed and replaced the #1 induction tube with a used serviceable tube and new gasket. Completed engine set up for proper idle mixture and speed and control alignment.

Maintenance Release
I certify the aircraft and/or component(s) on was repaired and/or inspected in accordance with an annual inspection, and current regulations of the Federal Aviation Administration and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station CRS NF2R029L and EASA.145.6960 under Work Order No. 9867-07-2022, Dated 12 September,

1	DATE: 12 Sept	ember.	2022		SIGNED: They x gly									Work Order: 9867-07-20								
					Timothy Quigley Certified Repair Station No NF2R029L							Printed by EBis 3 (d							s 3 (da	come	dia.com)	
				l															<u>-</u>		————	_}
	Date																				ļ	

Tail: N985JA

ETT:

2881.4

TSOH: 499.1

S/N: L-31498-51A

Date: 09/20/2022

TACH: 4974.8

Model: Lycoming IO-360-M1A

Removed and replaced LH engine manifold pressure sensor with new, P/N APT-151B-1000-20A, S/N 8500-8-41. See attached release certificate FTN# SI206130 for further information. Operational and leak check satisfactory at this time.

Work was performed referencing Diamond DA42-L360 MX Manual and AC 43.13.1(b).

Ethan A. Reimer

A&P 4520712

JA Flight Services

Tail: N985JA

ETT: 2913.6

TSOH: 531.3

S/N: L-31498-51A

Date: 11/18/2022

TACH: 5007.0

Model: Lycoming IO-360-M1A

Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N AA48110-2 and serviced engine with 8 QTS of Phillips 20W50XC oil. Added one 12oz bottle of Avblend to engine oil. Operational and leak check satisfactory currently.

Work was performed referencing Lycoming Direct Drive MX Manual, Diamond DA42-L360 MX Manual, and AC

43.13.1(b).

Ethan A. Reimer

A&P 4520712

A -		1 1 1	1 1 1		
J.A. Flight Services	Created 03/21/2023	LH Model: Lycoming IO-360-M1A	S/N L-31498-51A		
Aurora Airport * 630-549-2152		Tach: 5060.70	TTIS 2967.30	TSOU 595 00	
ormed a 100 Hour Inspection IAW FAR 4	3(d) using IAES or			TSOH 585.00	

ormed a 100 Hour Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W isual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 5160.7 or 03/31/2024, whichever comes first. Performed pression test, results as follows: 1. 78/80 2. 70/80 3. 78/80 4. 78/80. Drained engine oil and removed oil filter. Examined filter for debris, none found. lled new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Added one 12oz bottle of Avblend. Removed, Cleaned, ped, and Torqued spark plugs with new crush washers. Verified engine to magneto timing. Cleaned and inspected fuel injectors. Lubricated control was performed referencing Diamond DA42-L360 MX Manual, and AC 43.13.1(b).

perational checks proved satisfactory at this time. I certi determined to be in airworthy condition.	ify that this engine has been inspected in accordance with a 100 hour inspection and
Relmer A&P AP4520712 Date: 3/21/23 Signature:	W///

eimer	A&F	AF	4520	712	Date: 3	3/21/23	Sin	nature:	\mathscr{C}_{l}		۲/											
	Total Sir	Ove						lature.											1		}	ł
} [Time	. e				† —	_	 	ļ	+	+	+	-	 	 	ļ	ļ	ļ.,	<u> </u>			
	Total Ti																					
		Date					2.															ļ
									 ,											, 		

1	light rora	Created 05/25/2023	LH Model: Lycoming IO- 360-M1A	S/N L-31498- 51A	N985JA
Airport 6: 2152	30-549-	en e	TACH: 5104,20	TTIS: 3010.80	TSOH: 628.50
					· · · · · · · · · · · · · · · · ·
brained on and	removed old fil	ter. Replaced with new P.	/N: CH48110-1. Serviced wit	th 8 quarts of X/C 20W	-50 and 1 bottle of AvBlend.
All operational	checks proved	satisfactory at this time	. I certify that this engine ha done IAW Diamond DA42 AN		eccordance with a 50 hour inspec
Christopher Sec		15000	Signature: Autoli		
			e e e e e e e e e e e e e e e e e e e	- Colored Colo	G
		Created 07/19/2023	LH Model: Lycoming IO-360-M1A	S/N L-31498-5 1	1A
Aurora Airport *	630-549-2152		Tach: 5155.50	TTIS 3062.10	TSOH 679.80
Serviced unfeathe rational checks protermined to be in a	ring accumulate oved satisfacte airworthy condi	or with nitrogen.	ongine to magneto tilling. C	reaned and inspected	amined filter for debris, none found tle of Avblend. Removed, Cleaned fuel injectors. Lubricated control e with a 100 hour inspection and and AC 43.13.1(b).
1 01 1	1 1				
JA FI	ians		LH Model:		THE CONTRACT OF THE CONTRACT O
Services Aur		Created 09/12/2023	Lycoming IO- 360-M1A	S/N L-31498- 51 A	N985JA
Airport		•			· · · · · · · · · · · · · · · · · · ·
63 2152	0-549-		TACH: 5203.90	TTIS: 3110.50	TSOH: 728.20
All work done IA\ All operational c was determined	V Diamond DA4 hecks proved to be in airwor	42 AMM and AC 43.13-18 satisfactory at this time. rthy condition.	. I certify that this engine has		20W-50 and 1 bottle of AvBlend.
Christopher Sed	lock A/P: 474	15393 Date: 9/12/23 S	ignature: Salls		
JA Flight Aurora 630-549	Airporτ	Created 02/23/2024	LH Model: Lycoming IO- S/ 360-M1A	/N L-31498-51A	N985JA
	-2102		TACH: 5261.70	TIS: 3168.30	TSOH: 786.00
		war and the second and the second and the second	mont bordings with 2	Stud P/N 31C-12 x4 W	Vasher P/N STD-475, x4 Nut P/N S1
Removed both mag Reinstalled both ma	agnetos with x2	Mag gasket P/N LW-1268	1.	0.00 1 1 1 0 1 0 1 2 1 7 1 1 1	
Removed both mag Reinstalled both ma	agnetos with x2 pleted IAW Dian	Mag gasket P/N LW-1268	1. 43.13-1b.		
Removed both mag Reinstalled both ma	agnetos with x2 pleted IAW Dian	Mag gasket P/N LW-1268	1. 43.13-1b.		

ALL RIGHTS RESERVED	
COPYRIGHT © 2016 - PENN YAN AERO - ALL RIGHTS RESER	
COPYRIGHT © 2016	

Left Engine M	aintenance	Entry !	or N985JA
	ACTT: :	5225.6	

DATE: 11/13/2023 LETT: 3132.2 RETT: 3099.9 LPTT: 4940.5

RPTT: 5094.1

TACH: 5225.6 LETSOH: 749.9 RETSOH, 749.9 LPTSOH: 252.0 RPTSOH: 252.0

- 1. COMPLIED WITH AN ANNUAL INSPECTION AT 100 HOUR INTERVALS I/AW/ FAR 43 APPENDIX "D".
- 2. LEFT ENGINE: #1-77/80, #2-71/80, #3-76/80, #4-76/80.
- 3. COMPLIED WITH OIL CHANGES. DRAINED OIL, REMOVED FILTERS AND CUT OPEN FOR VISUAL INSPECTIONS. NO DEFECTS NOTED AT THIS TIME. REMOVED SUCTION SCREENS AND CLEANED. INSTALLED NEW TEMEPST OIL FILTERS AA48110-2 AND INSTALLED SUCTION SCREEN WITH A NEW AN900-16 GASKET. SERVICED WITH 8 XC 20W50.
- 4. CLEANED, GAPPED, TESTED AND ROTATED SPARK PLUGS.
- 5. CLEANED FUEL INJECTOR NOZZLES.
- 6. ADJUSTED MAGNETO TO ENGINE TIMING
- 7. CLEANED FUEL GASCOLATOR SCREENS.
- 8. CLEANED FUEL SCREENS.
- 9. REPLACED LEFT ENGINE SUCTION SCREEN.

	Descrip															
--	---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- 10. REMOVED LEFT ALTERNATOR P/N: ALU-8521R S/N: H-U122084 ANFD INSTALLEDE A OVERHAULED ASSEMBLY P/N: ALU-8521R, S/N: H-X070581. ADJUSTED VOLTAGE REGULATORS.
- 11. REMOVED AND INSTALLED LEFT PROPELLER AFTER REPAIR BY TIFFIN AIR.
- 12. SERIVCE PROPELLER UNFEATHERING ACCUMLATORS WITH NITROGEN.
- 13. COMPLIED WITH POWER FLOW EXHAUST SYETEM ICA ON LEFT AND RIGHT ENGINE. SWAGGED ALL HEADER PIPES FOR A CLOSE FIT.
- 14. AD 2015-19-07 EXTERNAL FUEL INJECTOR LINES COMPLIED WITH BY A VISUAL INSPECTION, DUE 11/30/2024 OR 5325.6 ACTT OR 4146.0 ACTT.
- 15. ADS CHECKED THRU 2023-23. SEE AD REPORT THIS DATE

ENGINE AIRCRAFT HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION. THIS ENGINE IS RETURNED TO SERVICE THIS DATE.

Created 03/08/2024 N985JA LH Model: Lycoming IO-360-M1A S/N L-31498-51A Tach 5267.50 TTIS 3174.10 TSOH 791.80

Drained oil, removed filter and replaced with new, P/N: CH48110-1. Serviced engine with 8 quarts of Aeroshell 20W-50 and 1 12oz bottle of AvBlend.

All operational checks proved satisfactory at this time. I certify that this engine has been inspected in accordance with a 50-hour inspection and was determined to be in airworthy condition. All work was completed IAW Diamond DA42 Twin Star MXM and AC43.13-1b.

Ethan Reimer	A&P 4520712		Date: 3/8/24		Signature:	6/1	G/M// 											

Created 04/15/2024 N985JA LH Model: Lycoming IO-360-M1A S/N L-31498-51A Tach 5293.50 TTIS 3200.10 TSOH 817.80 Pilot reported no drop on L/H engine, Left key setting. Troubleshooting revealed R/H mag p-lead wire ring terminal was detached. Crimped new ring All operational checks proved satisfactory at this time. I certify that this engine has been inspected and was determined to be in airworthy condition. All work was completed IAW Diamond DA42 Twin Star MXM and AC43.13.4b. Created 06/01/2024 N985JA LH Model: Lycoming IO-3L0-M1A S/N L-31498-51A Tach 5313.20 TTIS 3219.80 TSOH 837.50 Retimed magnetos to engine. Removed, cleaned, inspected, gapped, rotated, and reinstalled spark plugs with new crush washers. Replaced RH magneto hamess with new, P/N: M-2990. All operational checks proved satisfactory at this time. I certify that this engine has been inspected and was determined to be in airworthy condition. All work was completed IAW Diamond DA42 Twin Star AMM and AC43.13-1b. Christopher Sedlock A/P: 4745393 Date: 6/1/24 Signature: 10 1 1 Created 06/05/2024 N985JA LH Model: Lycoming IO-360-M1A S/N L-31498-51A Tach 5313.20 TTIS 3219.80 TSOH 837.50 Removed Defective R/H Magneto and replaced with Overhauled, P/N 4370, S/N H-Y012938. Removed and replaced all 8 spark plugs with new, P/N All operational checks proved satisfactory at this time. I certify that this engine has been inspected and was determined to be in airworthy condition. All work was completed IAW Diamond DA42 Twin Star MXM and AC43.13.4b. Ethan Reimer A&P 4520712 Date: 6/5/24 Signature: اة ك Created 06/11/2024 N985JA LH Model: Lycoming IO-360-M1A S/N L-31498-51A Tach 5314.20 TTIS 3220.80 TSOH 838.50 All operational checks proved satisfactory at this time. I certify that this engine has been inspected and was determined to be in airwork was completed IAW Diamond DA42 Twin Star MXM and AC43.13-1b. Created 09/26/2024 N985JA LH Model: Lycoming IO-360-M1A S/N L-31498-51A Tach 5319.10 TTIS 3225.70 TSOH 843.40 Performed a 100 Hour Inspection IAW FAR 43(d) using JAFS Checklist as a guide. C/W AD 2015-19-07, eff November 3rd, 2015: Fuel Injection Lines. C/W via visual inspection of fuel injection lines. No discrepancies noted. Next due at TACH: 5429.1 or 09/30/2024, whichever comes first. Performed compression test, results as follows: 1, 80/80 2, 0/80 3, 75/80 4, 75/80. Drained engine oil and removed oil filter. Examined filter for debris, none found. Installed new oil filter, P/N CH48110-1 and serviced engine with 8 QTS of Phillips 20W50XC oil. Added one 12oz bottle of Avblend. removed, cleaned, gapped, reinstalled, and torqued spark plugs with new crush washers. Verified engine to magneto timing. Cleaned and inspected fuel injectors. Lubricated control cables. Serviced unfeathering accumulator with nitrogen. All operational checks proved satisfactory at this time. I certify that this aircraft has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition. All work was completed JAW Diamond BA42 Twin Star MXM and AC43.13-1b. Ethan Reimer A&P 4520712 Date: 9/26/24 Signature: otal Tim Overhau Since Total Time In Service Date