ENGINE LOG SCAN

N2287A (formerly N500DH)

Diamond DA40

Airframe SN 40.226

AIRCRAFT TECHNICAL LOGS

Section 3. **ENGINE**

ENGINE LOG

LYCOMING IO-360-MIA

IE10 L-30387-51A

- 1. Make
- 2. Model
- 3. Specification
- 4. Manufacturer's Serial Number
- 5. Date of Manufacture
- 6. Aircraft Inspection Cycle

Fuel injection Ex. Precision airmotive marysville wa. Lyc #61522633 SERIAL 70258208 SETTING# 2576568-1

EXTRON Lycoming

FINAL ENGINE ACCEPTANCE

THE RESERVE OF THE PARTY OF THE	TIME	RUN	TIME	SINCE	INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE.
DATE	HRS.	MIN.	HRS.	MIN.	
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FORWARD					Engine installation inspected I.A.W. Diamond Aircraft Industries
1					W.O. # 999-1 Engine service with 8 qts. Of Philips 20W50 Type "M" engine oil.
	1				Engine break-in I.A.W. Lycoming Service Instruction 1427B,
		-			FLIGHT TEST COMPLETED
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09 KUG 2002			4.	4	HOURS BRUIGHT FORWARD
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8-3-02			0.7	10	ZEHR INSPECTION POIL YOU FILTER
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					OTL LEAK DN 1 79, Z 71, 3 79, 479/80
					CHANGED OIL AND OIL FILTER
					FILTER CUT OPEN AND INSPECTED OF
					SEXVICED WITH AEROSHELL 100 MIN, OIL
					DEGREASED ENGINE GLOWNS BUN-UP
					OPS AND LEAK CKED OK.
					Kull W Bu A & P 567495144
1-13-02			43	3	Colonia
					50/100 HR INSPECTION CYUSHI
					CUT AND INSPECTED OF SEAMOR
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MAINTENANCE RECORD

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	T	TIM	IE RUN	TIME	RHAUL	INSTALLATIONS, INSPECTIONS, INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE,
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	AND WAS DETERMI	NED TO SE IN
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30,400	SERRA MOUNTAIN	AVIATION, INC.
A&P, I.A. 567495144		The second second

FNGINE SERVICE AND SB 569A NA M/N/E S/N. INSTALLATIONS, INSPECTIONS TIME SINCE NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE MIN. MIN. 100 Sierra Mountain Aviation, Inc. 13308 Nevada City Ave Grass Valley, Ca 95945 N500DH Engine Tach: 267.0 SMOH: 267.0 Total Time: 267.0 Date: 7/29/2005 Work Order: 12422 Performed an Annual Inspection and Servicing per SMA checklist Changed oil and oil filter, filter cut open and inspected Serviced with (8) Qts 15W50 oil Cylinder Leak-down check, (1), 79 (2), 79 (3), 79 (4), 79 MOITAIN Magneto timing Left (25), Right (24.5) Spec (25) Serviced sparkplugs, rotated and reinstalled Degreased engine, ground run-up, op's leak check ok I certify that this engine has been inspected in accordance with an Annual/100HR Inspection and was determined to be in airworthy condition Signature Gerald W. Rose A&P/I:A. 567495144 Sierra Mountain Aviation, Inc. 530,273,5273 Sierra Mountain Aviation, Inc. 13308 Nevada City Ave Grass Valley, Ca 95945 N500DH Engine Tach: 283.2 SMOH: Total Time: 283.2 Date: 08/11/06 Work Order: 12676 Performed an Annual Inspection and Servicing per SMA and Diamond checklist Compression readings: #1 79/80, #2 78/80, #3 79/80, #4 79/80 Serviced with 8 Qts. Of 15W50 Aeroshell Replaced filter with new CH48110-1 Old oil filter inspection good, no contaminants found Ground run up op's leak check ok I certify this engine has been inspected in accordance with an Annual/100HR MI SE OF O Inspection and was determined to be in airworthy condition. WILL SECULIAR Gerald W. Rose A&P/I.A. 567495144

erra Mountain Aviation, Inc. 530.273.5273

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PREVIOUS SUMMARY

TOTAL
SINCE MFG.

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Sierra Mountain Aviation, Inc. 13308 Nevada City Ave	N500DH Engine Tach: 330.6 Work Order: 12870			
Grass Valley, CA 95945	Date: 6/04/07			
Serviced with 8 Qts. Of 15W50 Aeroshell				
Replaced oil filter with new CH48110-1				
Old oil filter inspection good, no contamin Ground run up, op's checked ok	ants found			
Signature: SullWN	1			
Gerald W. Rose A/P I/A 567495144				
Sierra Mountain Aviation, Inc. 530.273.52	73			
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Sierra Mountain Aviation, I	nc. N500DH Engine Tach: 355.1 SMOH: #A Total Time: 355.1			
13308 Nevada City Ave Grass Valley, Ca 95945	Date: 9/10/07 Work Order: 12935			
Performed an Annual Inspe	ection and service per SMA checklist and Diamond 100 Hr checklist			
Serviced with 8 Qts. Of 15V Replaced oil filter with new,	, CH48110-1			
Old oil filter inspection and	d no contaminants found			
	ailure of the Fuel Injector Lines spection of lines and clamps per the AD, due again 455.1 Tach or 09-2008			
Complied with per visual in Performed a compression t	est			
#1 77/80, #2 69/80, #3 74/8	30, #4 73/80			
Ground run up, op's leak ch	ecked ok			
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I certify this engine has b	een inspected in accordance with an Annual/100HR inspection and was	- acternmen	C SO III GITHO	
Signature	!IN fur			
Gerald W. Rose A/P I/A 56	7495144			
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Sierra Mountain Aviation, Inc.	N500DH Engine			
Sierra Mountain Aviation, Inc. 3308 Nevada City Ave	N500DH Engine Tach: 383.8 SMOH: N/A Total Time: 383.8 Date: 10/10/08 - Work Order: 13152			

Performed an Annual/100 HR Inspection per SMA checklist
Performed compression test
#1 78/80, #2 70/80, #3 76/80, #4 76/80
Serviced with 8 Ots of 15W50 Aeroshell
Replaced oil filter with new, CH48110-1
Old oil filter inspection good, no contaminants found
AD# 2008-14-07, To Prevent Failure of the Fuel Injector Lines
Complied with per visual inspection per the AD, due again 483.8 Tach

I certify this engine has been inspected in accordance with a Annual/100HR inspection and was determined to be in airworthy condition

Signature: Mulling March March

Ground run up, op's leak checked ok

N500DH Engine Sierra Mountain Aviation, Inc. Tach: 400.9 SMOH: N/A Total Time: 400.9

13308 Nevada City Ave Grass Valley, Ca 95945

Date: 11/02/09 Work Order: 13581

Performed a 100 HR Inspection/Service per SMA Checklist Performed compression test

#1 77/80, #2 70/80, #3 76/80, #4 77/80 Serviced with 7 Qts of 15W50 Aeroshell Replaced oil filter with new, P.N. CH48110-1

Old oil filter inspection good, no contaminants noted AD# 2008-14-07, Injector Lines

Complied with by visual inspection per AD, OK, due again 500.9 Tach Ground run up, op's leak checked ok

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

Signature: Gerald W. Rose A/P I/A 567495144 Sierra Mountain Aviation, Inc. 530.273.5273

> Registration N500DH Make Diamond Model DA40 Serial # 40.226

Sierra Mountain Aviation, Inc. 13308 Nevada City Ave, Grass Valley, CA 95945

Engine

412.7 Engine T/T SMOH N/A Hobbs Time 136.2 Work Order 21123

03/22/12

Performed a Annual/100 HR inspection service per SMA checklist Performed a compression test, #1 76/80, #2 70/80, #3 78/80, #4 78/80

Serviced with 8 Qts. Of 15W50 Aemshell oil Replaced oil filter with new, P.N. CH48110-1

Old oil filter inspection good, no contaminants found

AD# 2012-03-07, To Address a Machine-From-Billet HS-6 Carburetor Having a Loose Mixture Control Complied with per, Non-Applicable aircraft is fuel injected

AD# 2012-03-06, To Prevent an In-Flight Shutdown due to a Failed Fuel Servo Diaphragm

Complied with by Non-Applicable, no fuel servo work done after May 20, 2010

AD# 2011-26-04, To Prevent Failure of the Fuel Injector Lines

Complied with by visual inspection of fuel lines and clamps per MSB No. 342F, no defects noted, due again Tach 522.7

I certify this engine has been inspected in accordance with an Annual/100 HR inspection and was determined to be in airworthy condition

Signature: Signature: Daniel L. Grass A/P I.A. 3577254

TOTAL SINCE MFG.

Sierra Mountain Aviation, Inc. 530 273 5273

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Sierra Mountain Aviation, 3308 Nevada City Ave	T-t-l Time: 411 3 SMOH: N/A Tauli Tillie. 411.5		
Grass Valley, Ca 95945	Date: 2/04/11 Work Order: 13743		
erformed Annual/100 Hr ompression test perform	Inspection completed per SMA checklist ed		
1 77/80, #2 72/80, #3 75/ erviced with 8 Qts of 15V	V50 Aeroshell oil		
eplaced oil filter with new ld oil filter inspection goo	d, no contaminants found		
eaned, gapped, rotated a	and reinstalled sparkplugs		
omplied with by visual ins	spection per AD, OK, due again 511.3 Fach	-	
htened hose clamps on ound run up, ops leak ch	cylinder #2 & #4, rocker box drain lines ecked ok		
etify this engine has h	een inspected in accordance with a 100HR inspection and was determined to be in airworth	y condition	
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nature: A/P I/A 56			
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-/2-14	Changed oil and filter AD 2011-26-04 C/W by insp. fuel inj. lines Next due 578.8TT CYLINDER NO. 1 2 3 4 5 6 78 72 78 78 80 80 80 80 80 80 COMPRESSION CHECK This is to certify that this aircraft and propeller have been inspected in accordance with an annual inspection and was found airworthy. Total Time Propeller Total Time Propeller 4 7 8 8		0.77
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					10 / 10 / 1
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					in accordance with an annual inspection and was found airworthy.
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					Total Time Power Plant 440.7
					Total Time Propeller 490.7
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PARTIES					Propeller Time Since Overhaul 490.7
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REPAIRS, ADJU				
ACFT Model: Diamond DA 40	GIBBS SERVICE CENTER	Date:	6-9-2016	
Serial No.: 40.226	Montgomery Field, San Diego, CA 92123	W.O. No.:	16-146	
Reg. No.: N500DH	FAA Approved Repair Station VT3R931L			
Eng. Mfgr.: Lycoming	Eng. Model: IO-30-M1A	Eng. S/N:	L-30387-51A	
TET: 555.3	Tach: 555.3	Airframe:	555.3	
compression Reinstalled cylinder from rings, seals and gaskets. Prest Serviced engine 8qts A/S 100 oil. S/N 01082350 and reinstalled follow Compression as follows: 1-77/80, 2-lines by visual inspections per Lycor removal or engine O/H. AD notes ch	e DA 40 AMM, document 6.02.01, rev7. Rem pllowing repair by Tim's Aircraft Engines, CR5 sure checked cabin heat exchanger. Drained himmed alternate air valve sleeve to prevent ring 500hr inspection by Aero Accessories CI crepaired, 3-76/80, 4-75/80. Engine runup Ok ming MSB 342G inspection checklist. No def- lecked and are current 6-9-2016. ATP Navig	oil, inspected wear/binding. RS XB2R286L K, no leaks. C/ ects noted. Ne ator Content F	And replaced oil filter. Removed L/ magneto Replaced air filter. W AD2015-19-07, fuel ext due 665.3, line Revision: 5-27-2016.	
The aircraft and/or component ident aviation regulations and was found a file at this agency under Order No.	ified above repaired/replaced and inspected airworthy for return to service. Pertinent details 16-146	the repa	ins	P
Date: 6-9-2016	Signed:	Jen Pi	invon ,	
16 395.1 TT CHANGED OIL WIT	H PHILLIPS X < 700	rs + 0	OU FILTE	n w
HANGED OIL WITH	H PHILLIPS X < 700 TED O.K. RUNUP.C	75 + 0 O.K. N	O'L FILTE	n w
16 395.1 TT PHANGED OIL WITH ILTER INSPEC	H PHILLIPS X C 700 TED O.K. RUNUP.C	75 + 0 96,	O'S FILTE O'EAKS L. She	n wy
	H PHILLIPS X < 700.	75 + 0 96,	O'S FILTE O CERKS L. She	n w
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~ 1 7 March 13,20 AD 2011-26-		l Time		n w
~ 1 7 ——— March 13,20 ——— AD 2011-26- Total Time.	17 611.8 Total 04 C/W fuel injection lines next	l Time		n w
~ 1 7 ———— March 13,20 ——— AD 2011-26- Total Time.	17 611.8 Tota	l Time		e w
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DATE	TIME	RUN	OVER	SINCE	INSTALLATIONS, INSTAL	S AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTA FACE	
BROUGHT FORWARD		-			3-13-17	
			4000		This is to certify that this aircraft and power plant and pro	peller have been inspected
100000000000000000000000000000000000000		913	1		in accordance with an annual inspection and was found a	1110
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					Power Plant Time Shance overened 611.8	1
3					Propeller Time Since Greener Lotte 8	123.8
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100					Patrick H. Moere 14:1550834	10
		10000			Tatri	Dan
Sept 1					passon	Moon
	1000	T Model:	Diamo	nd DA-40	GIBBS SERVICE CENTER	Date: 3-14-2017
		al No.:	40.226		Montgomery Field, San Diego, CA 92123	W.O. No.: 17-052
		No.:	N500D		FAA Approved Repair Station VT3R931L	
	TET	Mfgr.:	Lycomi 611.8	ng	Eng. Model: IO-360-M1A	Eng. S/N: L-30387-51A
	1	- /	- A L		Tach: 611.8 lation of new P/N LW-14760 oil dipstick.	Airframe: 611.8
22711	Date:	3-14-			d airworthy for return to service. Pertinent details Signed: PEPLACED TOLL DIP	leff Runyon
					March 14, 2018 64 AD 2011-26-17 C/W fuel injection line Total Time. Changed oil and filter 7 Qts. Aeroshel	21.8 Total Time 25. Next due 741.8
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	This is to c in accordan Tac Total Time F	ertify that this aircraft and ce with an annual inspect	power plant and pro ion and was found a Total Time Aircraf	irworthy.			
	Total Time F Power Plant	repoller Time Since Major Överhe ne Since Overhaul	64	1.8/	.8	a section .	-
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	1 6010						The second second
A FO	061151	I 15 W TEMPEST	50 M	MULTIGE	/SAM	IPLE SEN	TTO AC
AER	061151	L 15 W Tempest	SD M	MULTIGE	/SAM	1PLE SENT	TTO AS
A FO	March 26	L 15 W Tempest	AA48	110 - 2. Time 668.9	/SAM	IPLE SENT	TTO AS
AER	March 26	5,2019 Oil and filter 6 CYL 1 2 75 78	AA48	Time 668.9 20-50 XC.	/SAM	IPLE SENT	TTO AS

	TIME	RUN	OVE	SINCE	INSTALLATIONS, INSPECTIONS, INSTALLATIONS INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COM-
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3 20 11					The 668.9 Total Time Aircraft 668.9
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OTAL FROM VIOUS SUMMARY					00N1, 7
TOTAL					The same view
SINCE MEG.	200	E 300	YIN .		

REPAIRS, ADJUSTMENTS, MODIFICATIONS

SIGNATURE

LICENCE NUMBER

CONT. Extorqued I Cartify that this England has born impected I Aw a looking jusq. and is in Airworthy Condition, Endoth Ast 3233760

Classofe + Detail of fart 43 APP. Doca 100 hr/ Annual jusp. Comps 1780 27/81 3/804 7/82

Chacked magtining no Rofeet stoned, Changed oil + P. Han, cat ofen filler No Abnarmaltica.

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AP 3233776 7-30-2022 994, Of ACH, 894, O Said.

8-1-2023 TACH + total time 901,5

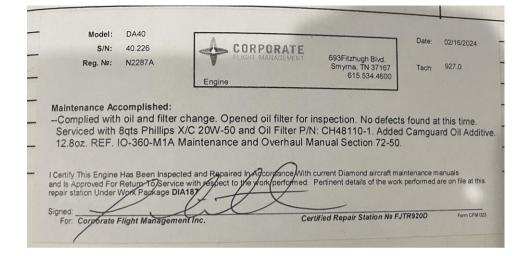
C/N Scope + Detail of Part 43 A22 D For a looker Armual in Expection.

Comps/1802 27/80 378/80 47/90 changed oil + Filter open filter No Major deboic

magifiming No defects found, AD2011-26-17 C/n Frel lines, by Vignel Inspection

No d. Feets Found. Next Due 1001, 5 TACH. I Contify that this engine has been

Inspectal IAW a 100 UN. inspection and is in Airworthy Condition of Falath 4+P 323776.





			Englis	1
			t any oil filter p/n: AA48110-2 and serviced with 6 qts 20W50X/C.	\-
		SHAP NO II	netal found. Installed new on the	
Maintenance Performed	Accomplished: oil and filter change. Checks good. Re	Cut open filter. No in of AMM 12-10.	netal found. Installed new oil filter p/n: AA48110-2 and serviced with 6 qts 20W50X/C. He d in Accordance With current Aircraft Manuals and Is Approved For Return To Service with he work performed are on file at this repair station Under Work Package JWN3209 dated: 4/18/2024, he work performed are on file at this repair station Under Work Package JWN3209 he form CFM 007	-
Ops and lea	Has Been I	inspected and Repair	he work performed are strong to the work performed are strong to t	1
I Certify This	e work performed.	Pertinent de	Form CFM 007	
respect to			Certified Repair Station No FJTR920D	
Signed:	Contour Aviation			
For	Comoa		Report Road Clarksville, TN 37043 Facility Address, 4428 Airport Road,	1
	-	Aviation LLC Mailin	ng Address, 197 Bagwell Road, Clarksville, TN 37043 Facility Address, 4428 Airport Road, Springfield, TN 37172 - 615-384-3200 Springfield, TN 37172 - 615-384-3200 Springfield, TN 37172 - 615-384-3200	
	Wingnate	Avidue	August 27, 2024	
			Lycoming, IO-360-M1A, S/N: L-30387-51A August 27, 2024	-
	N2287A TACH: 9			
	1 G0	mplied with an An	ETT: 969.3 As a popendix D with reference to Diamond Model DA40 Maintenance Manual As a popendix D with reference to Diamond Model DA40 Maintenance Manual As a popendix D with reference to Diamond Model DA40 Maintenance Manual As a popendix D with reference to Diamond Model DA40 Maintenance Manual As a popendix D with reference to Diamond Model DA40 Maintenance Manual Manual Maintenance Manual Man	
	det	tall of 140 his lo	A's. 27 27 71 4) 72	-
1.31	and	moression test res	As. As. Sults over 80 PSI: 1) 78, 2) 75, 3) 71, 4) 72. Sults over 80 PSI: 1) 78, 2) 75, 3) 71, 4) 72. Supposed, tested, rotated and reinstalled spark plugs. Japped, tested, rotated and reinstalled spark plugs.	
10300	2. CO	moved, cleaned, g	gapped, tested, totated and reinstatieu spain budge ough bi-weekly 2024-16 and found to be in compliance.	
	4. Re-	searched AD's thr	ough bi-weekly 2024-16 and found to be in compliance. ough bi-weekly 2024-16 and found to be in compliance. 5-19-07 Fuel Injector Lines by visual inspection IAW (e)(1)(ii) as outlined in MSB bours of 12 months.	_
- 9000				
	342	2G. Next due 110	hours of 12 months. s been inspected in accordance with an Annual Inspection and was determined	
	I certify th	irworthy condition		
	10 00 111 0		N DM	
	Vulo LaM	Iontagne AP / IA 3	889107	
	T YIE LAW	loniagno :	THE RESERVE OF THE PARTY OF THE	
			Performed oil and Filter change. Inspect	1.0
10-22-2024			performed on acres times contained inspects	EU_
Tach time			Filter, no defects noted. Installed AA48110-	2
1013 1			and 6 gts 20W50X/C. Ops and leak ch	reck
10 23.2			good. Per AMM 12-10, 72-01-00 AP	
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TOTAL SINCE MFG.				

MAINTENANCE RECORD wo: 24-1493 Engine page 1 of 1 Wingnuts Aviation, LLC Mailing Address, 197 Bagwell Road, Clarksville, TN 37043 Facility Address, 4428 Airport Road, LICENCE Springfield, TN 37172 - 615-384-3200 NUMBER Lycoming, IO-360-M1A, S/N: L-30387-51A N2287A December 02, 2024 TACH: 1068.9 FTT: 1068.9 1. Complied with an 100 Hour Inspection in accordance with our Checklist encompassing the scope and detail of 14CFR (FAR) 43 appendix D with reference to Diamond Model DA40 Maintenance Manual and all applicable ICA's. 2. Compression lest results over 80psi: 1) 74, 2) 74, 3) 75, 4) 62. Removed, cleaned, gapped, tested, rotated and reinstalled spark plugs. Installed (8) P/N M674 -Gasket: Spark Plug 4. Drained oil, removed and inspected filter and suction screen, replaced crush gasket; no metal found. Installed new filter, reinstalled screen with new gasket and serviced engine with oil. Installed P/N Installed new lifer, reinstalled 3 state of the print of the state of the print of AA48110-2 - Filter: Oil. 5. Researched AD's through bi-weekly 2024-23 and found to be in compliance. Tcertify that this Engine has been inspected in accordance with a 100hr Inspection and was determined to be in airworthy condition. Engine run up completed, all systems satisfactory. Chris Ferraraccio AP / IA 2792477 2/4/2025 SIN 40 226 CONTOUR 693 Fitzhugh Blvd Tach: 1119.0 N2287A Smyrna, TN 37167 615.534.4600 Engine Maintenance Accomplished:
-Compiled with oil and filter change, Cut open filter. No metal found, Installed new filter pin: AA48110-2 and serviced with 6 qts 20W50X/C,
Ops and leak checks good. Ref AMM 12-00. I Certify This Engine Has Been Inspected and Repaired In Accordance With current Aircraft Manuals and Is Approved For Return To Service with respect to the work performed. Pertinent details of the work performed are on file at this repair station Under Work Package JWN3338 dated: 2442025. A&P 3595748 Fric Bleno Volar LLC, 750 Franklin Road, Lebanon, TN 37087 Engine Make/Model: Lycoming/IO-360-M1A Engine Serial Number: L-30387-51A AFTT: 1168.2 ENGTT: 1168.2 TACH: 1168.2 SMOH: N/A 1) Complied with Annual Inspection under the guidelines of Diamond DA 40 Series Maintenance Manual & Lycoming Operator's Manual 2) Researched AD's through bi-weekly 2025-08. 3) Completed the following AD's by visual inspection and found to be good: - ENGINE: 15-19-07 & 24-21-02 4) Checked magneto timing to engine. 5) Removed & replaced spark plugs with new copper seal. 6) Drained oil, removed, cut open and inspected filter, inspected sump screen: no metal was found, sent off oil for Blackstone oil analysis. Installed new filter AA48110-2, sump screen with new gasket. Serviced with 7 quarts Phillips X/C 20W50 I certify that the Engine identified above has been inspected in accordance with an Annual Inspection as required by 14 CFR Part 43 Appendix D and was determined to be in an airworthy condition. All required maintenance has been performed per the manufacturer's maintenance manuals, Airworthiness Directives (ADs), and FAA-approved data as applicable. All applicable ADs have been complied with at this time, and a list of ADs and their status has been provided to be retained with the maintenance records. The Aircraft, Engine or Component identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is Approved for Return to Service. Authorized Person Beturning Aircraft to Service: Lawton Matthew Johns A&P/IA (3795040)
Signature:

Pertinent details of the repair are on file at Volar LLC under Work Order No: 87A-042325

Date of Return to Service: 5/1/25

TIME RUN		RUN	TIME SINCE		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE		
DATE	HRS.	MIN.	HRS.	MIN.	The state of the s		
BROUGHT					Engine page 1 of 1		
-	wo: 2	25-1190			English page 1 011		
	Win	gnuts Aviati	on. LLC · M	lailing Addr Airport Ro	ress, 197 Bagwell Road, Clarksville, TN 37043 - Facility Address, 4428 aad. Springfield, TN 37172 - 615-384-3200		
	N228		F	coming,	IO-360-M1A, S/N: L-30387-51A July 23, 2025		
	Drainer metal f Sample Filter: 0	d oil, took ound. Ins Service, Oil,	Installed	(6 qt) P/N	Blackstone for analysis. Removed and inspected oil filter; no diserviced engine with oil. Installed P/N BS - Blackstone Oil N 20w50 Quart - Oil; Phillips X/C, Installed P/N AA48110-2		
	Engine	run up co	npleted, a	II systems	s satisfactory.		
	Aaron F	owler AP	4462170	10%	to the		
					Engine		
	wo: 25-1252				Engine - page 1 of 1		
	Wi	ngnuts Avi	ation, LLC	- Mailing	Address, 197 Bagwell Road, Clarksville, TN 37043 · Facility Address, 4428 Airport Road, Springfield, TN 37172 · 615-384-3200		
		2287A ACH: 1458	3.8		coming, IO-360-M1A, S/N: L-30387-51A October 16, 2025		
	Insp	pected eng mal opera	gine. Fuel tion. Cowli	and igniti	ion systems verified for proper function. Run up test achieved static power and alled.		
	Eng	jine run up	complete	d, all syst	ems satisfactory.		
	Dav	id Bliss Al	P / IA 3456	8094	- Sullines -		
	N2	287A			Replaced oil filter with new Tempest AA48110-2, and reinsta		
L	Lycoming: IO-360-M1A				flow through screen with new annular gasket AN900-16.		
S/N: L-30387					Serviced engine with 8 quarts of Phillips 66 X/C 20W-50. Remo Cleaned, gapped, tested, installations and installations.		
31 October 2025					cleaned, gapped, tested, rotated, installed and torque to 420"/lb Adjusted timing of both mags to 25 degrees BTDC, inspe		
TACH: 1265.3,	ACFT TTS	N: 1265.	3, Hobb	s: 1460.	.9 magnetos and leads; no faults noted.		
ETS	MOH: 126	5.3. ETT:	1265.3		Cleaned/inspected oil cooler		
formed a 100-hr inspection on engine with reference					Cleaned air filter.		
R part 43 Appx D.					Confirmed alternator belt tension.		

- Researched and complied with all bi-weekly ADs, 2025-21.
- Complied recurring ADs 2024-21-02, 2015-19-07, next due at 1365.3 tach time.
- Performed compression test, results follow: CYL #1 72/80, CYL #2 70/80, CYL # 3 70/80, CYL # 4 72/80.
- Drained oil, pulled oil sample and sent to Blackstone Labs, then removed, cut, and inspected oil filter, and removed inspected and cleaned oil flow through screen; 15 pieces of non-magnetic metal (1/16" or less diameter) found in filter media, per Lycoming SB 480F, Recommended Corrective Action Option 1 (Table 4), next oil change. and filter inspection due at 1290.3 tach time.

- - Performed post 100-hr engine run-up for operational and oil leak
 - check; no defects found. Confirmed low idle RPM at 800 RPM minimum.

All maintenance performed with reference to Lycoming Overhaul

and Diamond DA40 Aircraft Maintenance Manuals.

I certify this engine has been inspected with reference to a 100-hou inspection and was found to be in an airworthy condition. Wesley Shoemaker A&P 4704022

 No. 1 cylinder top spark plug insert separated, replaced insert Heli-TOTAL FROM REVIOUS SUMMARY TOTAL SINCE MEG.