# AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG



### **ENGINE DATA**

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

LYCOMING

IO-360-M1A

RL-3841-51E

11-11-13

## Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RL	IN	TIME SINCE OVERHAUL		CYCLES	
	HOURS	mīn	HOURS	min	S u b Total	TOTAL
BROUGHT -		-				

DESCRIPTION OF WORK PERFORMED:

NAME/ SIGNATURE AMEOR AMO/ACA

Tach reads:3147.1 ETT:1405.8

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation com

N654MS wo 68865 Date: 23 Feb 2022

Complied with a 100 HOUR inspection in accordance with 14 CFR 43 Appendix D. Opened all cowls, fairings, and other components as required to facilitate inspection. Drained oil, inspected oil filter, no defects noted. Installed oil filter P/N:AA48110-2 and serviced with 7qts of Phillips 20w50 oil. Compressions are as follows:#1:75/80 #2:79/80 #3 71/80 #4 60/80. Checked magneto timing. Cleaned, gapped, and rotated spark plugs. Installed overhauled magneto P/N:4370 S/N:K-01287 on R/H side. Run up and leak checked engine after inspection and service, no discrepancies noted. Reinstalled all cowls, fairings, and other components previously removed to facilitate inspection.

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

Birk van deg Brink, Jr. A&P IA 3637044

EVIZTION

EPIX AVIATION 2802 Airport Drive, Suite 1 Chesapeake, Virginia 23323 757-421-4973

N654MS wo 71445 Date: 04/26/2021

Tach reads: 3208.8

Drained oil, removed and inspected filter. No discrepancies noted. Installed new AA48110-2 oil filter and serviced with 7qt Phillips XC 20W50 oil. Ran up and leak checked, no discrepancies noted.

Work performed by Sean Ennis, supervised and inspected by the undersigned.

James Parkman AP 3270184 I

EPIX AVIATION
2802 Airport Drive, Suite 1
Chesapeake, Virginia 23323
757-421-4973
EpixAviation.com

ort Drive, Suite 1 (e, Virginia 23323 -421-4973 N654MS wo 73219 Date: 7/27/2022

Complied with a 100 HOUR inspection in accordance with 14 CFR 43 Appendix D. Opened all cowls, fairings, and other components as required to facilitate inspection. Drained oil, inspected oil filter, no defects noted. Installed new AA48110-2 oil filter and serviced with 7qts Phillips X/C Aviation 20W50 oil. Compressions with 80psi input pressure are as follows: 78/78/78/64 Checked magneto timing. Cleaned, gapped, and rotated spark plugs. Replaced one spark plug. Complied with AD 2015-19-07 "Fuel injector fuel lines" In accordance with Lycoming Service Bulletin SB342G. No discrepancies noted. Next due at 3353.4 tach time. Removed cylinder #1 and #3 rocker covers and replaced gaskets P/N SL75906. Run up and leak checked engine after inspection and service, no discrepancies noted. Reinstalled all cowls, fairings, and other components previously removed to facilitate inspection.

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

Zachary T. Parkman A&P (Pending)

AVIATION

Tach reads: 3253.4 ETT: 3253.4

Model: IO-360-M1A Make: LyComing N#: N654MS Ser#: RL3841-51E Engine Total Time: 3258.5 Tach:3258.5 EmTSMOH: 1490,2 Aircraft Total Time: 3258.5 Inspected engine IAW aircraft Manufacturers Checklist. Cleaned, checked and lubed all controls. Cleaned and checked all ign. plugs, no defects found. Changed oil with7Qts Phillips 20-50 and new CH48110 oil filter. Changed air filter with new. Comp. checks; 1:78,2:76,3:75,4:72 over 80Psi taken cold. Tightend #4Cyl. oil return hose as needed. Tightend and safetied oil dipstick tube as needed. Resecured oil cooler hose. Resecured oil cooler face plate seal. Replaced 2 Spark plugs W/ UREM-37E. C/W AD 2008-08-14 Servo plug, no defects found, next due 3308.5. C/w AD 2015-19-07, no defects found, next due 3358.5. AD's checked to biweekly update 2023-12, none new found. See AD listing in logs. Run up, leak and OPS checks good. "I certify that this Engine has been inspected IAW an annual inspection and found to be in an airworthy condition." Date: 06/16/23 Thomas E. Kurtz III A&P#141525863IA TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926 Replaced oil with 7 Qts of phillips 20 w-50 and new CH48110 oil Filter, A/C is approved for 11/6/23 Total Time return to service. Found. next One 3356.5 Tach

The 18268

The 1826868

THIS PAGE
TOTALS
PREVIOUS
TOTALS
SINCE NEW

CARRY FORWARD to Top of Next Page

# Section 3A: Engine Service and Maintenance Log

TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926

DATE TIMER		ME RUN TIME SINCE OVERHAUL			CYCLES					
	HOURS	min HOUR	S min	S u b Total	TOTAL		DESCRIP	PTION OF WORK F ON, REPAIRS, REPLAC	PERFORME	
BROUGHT FORWARD -						7	(INSPECTION)	ON, REPAIRS, REPLAC	EMENT) TWED:	
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-	+ +	Distance of the last of the la	Ser#: RL3841-51E Engine Total Time:				10-360-M1A N#: N654MS			
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-		Inspecte	ed engi	ne IAV	M aircraft N	1anufactuur	Aircraft 10	otal Time: 3358.0		
<del></del>		and Juhe	Inspected engine IAW aircraft Manufacturers Checklist. Cleaned, checked and lubed all controls. Cleaned and checked all ign. plugs, no defects found. Changed oil with 7Qts Phillips 20-50 and new CH48110 oil filter.  Changed air filter with new Comp. checker 1773 2-75 3-77 4-79.							
		found C								
		Change								
	++	taken co	Changed air filter with new. Comp. checks; 1:72,2:75,3:77,4:70 over 80Psi taken cold. C/W AD 2008-08-14 Servo plug, no defects found, next due							
	-	3408.0.	C/w AD	2015	i-19-07 no	defects four	no detect	s found, next due le 3458.0. AD's		
		checked	to biw	eeklv	undate 202	4-06 none	now found	l. See AD listing in		
		logs. Rur	up, le	ak and	OPS check	rs annd	new lound	. See AD listing in		
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				and fo	ound to be	in an airwor	rthy condi	tion."	E 1	
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-		-	TEK Ai	rcraft s	ervice 943 H	Thom	nas E. Kurtz	III A&P#141525863IA		
			TEK Aircraft service 942 Union Branch Road, Corapeake NC 27926							
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Make: LyComing		Model: IO-3	60-M1A	N	#: N654MS		1.1	5 3/2/	A) All	
er#: RL3841-51E	Engine To	tal Time: 34	_		ach:3456.9		"	VILEX	141525863	
					l Time: 345					
nspected engine IAW	/ aircraft M			-						
and lubed all controls										
ound. Changed oil w			_					(4)		
Changed air filter wit		=								
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needed. C/W AD 200	_	_								
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3506.9. AD's checked										
AD listing in logs. Rur	n up, leak a	nd OPS ched	cks goo	d.					'	
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inspection	and found	to be in an	airwor	-						
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1000	0	Ţ	homas I	E. Kurt:	z III A&P#14	11525863 RWA	ARD to Top of	Next Page		

#### Engine Logbook



Reg No: N654MS	Aircraft type: Diamond DA40	Aircraft S/N: 40.842			
Tach: 3502.5	Hobbs: 4828.5	Aircraft Total Time: 3502.5			
Engine Total Time: 1734.2	Engine SMOH: N/A	Engine S/N: RL3841-51E			
Prop Total Time: 1634.7	Prop SMOH: N/A	Prop S/N: NS1647B			

- I certify that this Aircraft/Engine/Propeller has been inspected in accordance with an Annual Inspection and found to be in airworthy condition. Inspection performed in accordance with FAR 43 appendix D, using the Lycoming IO-360-M1A Maintenance and overhaul manual inspection guide as a reference.
- 2. AD's checked through this date, all applicable have been complied with.
- 3. Complied with AD 2024-21-02 by visual inspection of oil filter and screens at annual oil change in accordance with Lycoming MSB 480F, no bronze-colored metal or abnormalities noted. Effected parts are installed, NEXT DUE: at next oil change.
- Complied with AD 15-19-07 fuel injector by visual inspection, next due after any maintenance is done involving fuel injector clamp is disconnected, moved, or loosened and within every 110 hours TIS, (TACH: 3612.50) and after each engine overhaul.
- 5. Engine compressions taken: 1: 70/80, 2: 78/80, 3: 76/80, 4: 65/80.
- 6. Checked magneto timing and adjusted timing on both mags to be within data plate timing degree.
- 7. Drained engine oil, inspected oil filter pleats, and suction screen, no discrepancies noted. Serviced engine with 8qts of Phillips XC 20W50, installed new AA48108-2 oil filter.
- 8. Removed, cleaned, and re-installed fuel injectors. Installed new fuel injector orifice insert in #2 fuel injector.
- 9. Installed 3 new spark plugs P/N: UREM38E.
- 10. Installed 4 new valve cover gaskets P/N: SL75906.
- 11. Installed two new rocker shaft plugs P/N: LW-12892 on cyl #1
- 12. Aircraft ground run performed, ops and leak checked OK.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 10/14/2025	10/14/2025	Signed:	Para Com		
	3	Robert Crawford AP/IA 3895252			