

***LYCOMING***

# ENGINE LOG

**SSP-1872-1**

**LYCOMING**

652 Oliver Street  
Williamsport, PA 17701 U.S.A.  
570/323-6181

# ENGINE LOG AND MAINTENANCE RECORD

RECORD OF LYCOMING

MAKE

MODEL

SERIAL

FROM \_\_\_\_\_ 20 \_\_\_\_\_ TO \_\_\_\_\_ 20 \_\_\_\_\_

DETAILING TIME FROM \_\_\_\_\_ TO \_\_\_\_\_  
HOURS HOURS

**SSP-1872-1**

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**October 1994**

**LYCOMING**

## Rebuilt Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Part Number: RENPL-RT10051  
Serial Number RL-3841-51E  
Engine Model IO-360-M1A  
Work Order AR585908  
Total Time 0.0

*Low L. Adams* 11/11/13  
Authorized Representative Date

Production Certificate #3



652 Oliver Street Williamsport, PA 17701 U.S.A  
Lycoming Engines is a division of Avco Corporation

Form 2481 Rev 05/13

## ENGINE DESCRIPTION

Mfgr.	LYCOMING	Place	Williamsport, PA 17701	Date
Type		Model		Serial No.
Rated H.P.		Max. H.P.		Weight (Dry)
Rated R.P.M.		Max. R.P.M.		Oil Pressure
Bore		Stroke		Displacement Cu. In.
Compression Ratio		Supercharger Ratio		
Reduction Gear Ratio				
Propeller		Hub Design		Hub Serial No.
Blade Design		Blade Serial No.		Blade Serial No.
Max. Hub H.P.		Max. Blade H.P.		
Pitch		Diameter		Length
Name				
Address				

## Serial No.

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License #
	Hrs	Min			
			 <p> <b>EPIX AVIATION, LLC</b>            2802 Airport Drive, Suite 1            Chesapeake, Virginia 23323            757-421-4973            EpixAviation.com         </p> <p><b><u>N654MS</u></b></p> <p>Date 12-16-13</p> <p>Tach reads: 1768.3 Engine total time : 0 since new</p> <p>Installed this engine IO360-M1A s/n RL-3841-51E on a Diamond DA40 s/n 40,842, Reg N654MS. The engine was installed in accordance with the DA40 Maintenance manual with new engine isolators and bolts. Engine was serviced with 8 qts of Phillips 20W50. The engine was run up and the idle speed and idle mixture was set. The engine was leak checked. The engine was broken in in accordance with Lycoming Service instruction 1427C. This engine is approved for return to service.</p> <p>James Parkman AP3270184 IA</p> 		
			<p>Brought Forward</p> <p>Total to Date</p>	<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>	

## Serial No.

[illegible]

## Serial No.

**EPIX AVIATION**

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757-421-4973  
EpixAviation.com

N654MS  
wo 9795

Tach reads: 1870.3 Engine total time : 102.00

Date: 8-20-14

Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Cleaned, gapped and rotated sparkplugs. Retimed left magneto. Checked magneto timing. Drained oil. Removed and inspected filter. No defects noted. Serviced engine with 7 qt Phillips 20w50. Installed new oil filter p/n AA4810-2. Compressions check #1-77, #2-76, #3-78, #4-72/80. Cleaned fuel injectors. Complied with AD 2011-26-04 fuel injection lines. No defects noted. Next due @ tach 1970.3 Washed engine. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.

Wayne G. Newton AP3450425 IA

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	

# ENGINE LOG

Serial No.



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**N654MS**  
wo 10509

Tach reads: 1919.8

Date: 10/24/14

Drained oil. Removed and inspected filter. No defects noted. Installed new filter p/n 48110-2. Serviced engine with 7 qts of Phillips 20w50. Washed engine. Ground run and leak check OK.

William Rickard AP2960304

ure License  
Number

Page Total

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**N654MS**  
wo 10958

Tach reads: 1969.8 Engine total time : 201.5

Date 12-19-14

Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Compressions check #1-70, #2-76, #3-72, #4-75/80. Cleaned, gapped and rotated sparkplugs. Checked magneto timing. Drained oil. Removed and inspected filter. No defects noted. Installed new oil filter p/n AA4810-2. Serviced engine with 7 qt Phillips 20w50. Cleaned and reinstalled fuel injectors. Complied with AD 2011-26-04 fuel injection lines. No defects noted. Next due @ tach 2069.8 Washed engine. Tightened and resafied oil filler tube. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.

James Parkman AP 3270184 IA

nature License  
Number

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Total to Date

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## Serial No.

License  
Number

## Serial No.

Signature	License Number
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**N654MS**  
wo 15577

Date

Date: 3-9-16

Tach reads: 2119.1

Drained oil. Removed and inspected filter. No defects noted. Installed new filter p/n 48110-2. Serviced engine with 7 qts of Phillips 20w50. Washed engine. Ground run and leak check OK.

Wayne C. Newton AP3450425

e License  
Number

Page Total

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Total to Date

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## ENGINE LOG

Serial No. \_\_\_\_\_

Date

Time

Hrs

Min

REPAIRS - ADJUSTMENTS - SERVICE - REMARKS

Signature

License  
Number



EPIX AVIATION  
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**N654MS**

Tach reads: 2169.6

Date: 6/18/16

Complied with AD2015-19-07 in accordance with Lycoming SB 342G, Supplement No. 2, dated January 23, 2014. No defects noted. Next due at 2269.6 tach/AFTT.

James E. Parkman AP3270184

Brought Forward


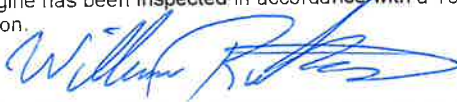
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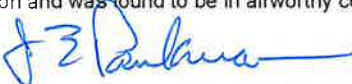
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	Hrs	Min			
			<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>EPIX AVIATION, LLC 2802 Airport Drive, Suite 1 Chesapeake, Virginia 23323 757-421-4973 EpixAviation.com</p> </div> <div style="text-align: right;"> <p><b><u>N654MS</u></b> <b><u>wo 17128</u></b></p> </div> </div> <p>Tach reads: 2175.1 Engine total time : 406.8</p> <p style="text-align: right;">Date 6-29-16</p> <p>Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Compressions check #1-70, #2-72, #3-72, #4-72/80. Cleaned, gapped and rotated sparkplugs. Checked and reset magneto to engine timing. Drained oil. Removed and inspected filter. No defects noted. Installed new oil filter p/n AA4810-2. Serviced engine with 8 qt Phillips 20w50. Cleaned and reinstalled fuel injectors. Complied with AD 201519-07 Fuel Injection lines per Lycoming SB342G. No defects noted. Next due @ tach 2275.1. Washed engine. Installed gromment in forward baffling for mixture cable. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.</p> <p>William Rickard AP2960804</p> 		
			<p>Brought Forward</p> <p>Total to Date</p>		

## ENGINE LOG

Serial No.

Date _____	 <p><b>EPIX AVIATION, LLC</b>          2802 Airport Drive, Suite 1          Chesapeake, Virginia 23323          757-421-4973  <a href="http://EpixAviation.com">EpixAviation.com</a></p>	<b>N654MS</b> <u>wo 18787</u>	License Number _____ _____ _____ _____
Tach reads: 2220.7 Engine total time : 452.5		Date 10/14/16	
<p>Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Compressions check #1-70, #2-73, #3-72, #4-71/80. Cleaned, gapped and rotated sparkplugs. Checked and reset magneto to engine timing. Drained oil. Removed and inspected filter. No defects noted. Installed new oil filter p/n AA4810-2. Serviced engine with 8 qt Phillips 20w50. Cleaned and reinstalled fuel injectors. Complied with AD 201519-07 Fuel Injection lines per Lycoming SB342G. No defects noted. Next due @ tach 2320.7. Removed exhaust sytem and inspected per the Powerflow ICA. System reinstalled with new gaskets. Washed engine. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.</p>			
James E. Parkman AP 3270184IA			

# ENGINE LOG

Serial No. \_\_\_\_\_

Date



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**N654MS**  
**wo 19571**

License  
Number

Tach reads: 2231.9

Date: 11/29/2016

RH magneto inoperative. Ran aircraft, verified issue. Removed and inspected plugs on cold cylinders (2 and 3). Removed and replaced one bad plug with new plug p/n UREM38E. Tested spark plug leads, OK. Removed RH Mag, tested and found inoperative. Isolated problem to bad coil. Removed and replaced with serviceable spare p/n K3975 induction coil. Reassembled Magneto with new contact kit p/n M3081. Installed repaired magneto, timed both mags to engine, ran up, OK.

  
Dirk Van den Brink AP3637044

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Date



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**N654MS**  
**wo 22507**

License  
Number

Tach reads: 2268.8 Engine total time : 499.1

Date 6/7/2017

Drained oil. Removed and inspected filter. No Defects noted. Installed new filter p/n AA48110-2. Serviced engine with 7 qts of Phillips 20w50. Washed engine. Run-up and leak check OK. Removed exhaust system, removed stud on cylinder #3 cylinder. Install exhaust stud, exhaust system/muffler.

Shirleen Bergren AP3804009



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Serial No



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**N654MS**  
**wo 23303**

Date 7/21/2017

Tach reads: 2296.0 Engine total time : 526.3

Checked Magneto timing. Replaced 4 bottom spark plugs p/n UREM38E.

Shirleen Bergren AP3804009

*Shirleen Bergren*

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Number



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**N654MS**  
**wo 24045**

Date 8/19/17

Tach reads: 2319.5 Engine total time : 551.2

Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Compressions check #1-70, #2-73, #3-70, #4-72/68. Cleaned, gapped and rotated sparkplugs. Installed 3 ea. new UREM 38E sparkplugs. Checked magneto to engine timing. Drained oil. Removed and inspected filter. No defects noted. Installed new oil filter p/n AA4810-2. Serviced engine with 8 qt Phillips 20w50. Cleaned and reinstalled fuel injectors. Complied with AD 2015-19-07 Fuel Injection lines per Lycoming SB342G. No defects noted. Next due @ tach 2419.5. Washed engine. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.

Wayne C Newton AP 3450145 JA

*Wayne C Newton*

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Total to Date

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Signature

License  
Number

# ENGINE LOG

Serial No.

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**N654MS**  
wo 25905  
**Date: 14 Nov 2017**

Tach reads: 2391.1



Pilot reports rough and excessive RPM drop on left hand magneto during mag check on run up. Run up and verified issue. Decowled aircraft and removed all plugs. During cleaning, plugs 2-Bottom and 3-Bottom both found with heavy lead fouling. Cleaned, gapped, and tested all plugs, no discrepancies noted. Rotated and reinstalled all plugs and recowled aircraft. Run up OK.

Dirk van den Brink, Jr. A&P 3637044

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Serial No. \_\_\_\_\_

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	Hrs	Min					
			<div style="display: flex; justify-content: space-between;"> <div>  <p>EPIX AVIATION, LLC 2802 Airport Drive, Suite 1 Chesapeake, Virginia 23323 757-421-4973 EPIXAviation.com</p> </div> <div> <p><b>N654MS</b> <b>wo 26592</b></p> </div> </div> <p>Tach reads: 2419.6 Engine total time : 651.1      Date 1/18/18</p> <p>Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Compressions check #1-74, #2-76, #3-75, #4-75/68. Cleaned, gapped and rotated sparkplugs. Installed 3 ea. new UREM 38E sparkplugs. Checked magneto to engine timing. Drained oil. Removed and inspected filter. No defects noted. Installed new oil filter p/n AA4810-2. Serviced engine with 8 qt Phillips 20w50. Cleaned and reinstalled fuel injectors. Complied with AD 2015-19-07 Fuel Injection lines per Lycoming SB342G. No defects noted. Next due @ tach 2419.5. Washed engine. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.</p> <p>William Rickard AP 2960804 </p>				
			<table border="1" style="width: 100%;"> <tr> <td>Brought Forward</td> </tr> <tr> <td>Total to Date</td> </tr> </table>	Brought Forward	Total to Date	<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>	
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			<table border="1" style="width: 100%;"> <tr> <td>Brought Forward</td> </tr> <tr> <td>Total to Date</td> </tr> </table>	Brought Forward	Total to Date	<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>	
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Brought Forward			All repair data must bear the endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
Total to Date					


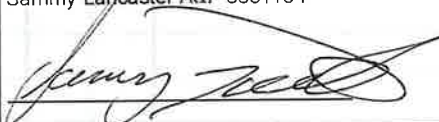
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Page Total		All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.		
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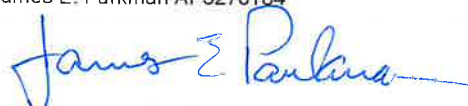
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<p>Page Total</p> <p>Brought Forward</p> <p>Total to Date</p>			<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>		

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<p>Page Total</p> <p>Brought Forward</p> <p>Total to Date</p>		<p>All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.</p>

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Date



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**N654MS**  
**wo 33656**

License  
Number

Date 2/7/19

Tach reads: 2609.3

Installed new starter p/n 149-24LS, s/n H-S103682 and magneto p/n 4347R s/n G-12228. Charge battery and installed. Ground run and leak check ok.

James Parkman AP3270184

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Date

Time



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**N654MS**  
**wo 34524**

License  
Number

Date: 3/21/19

Tach reads: 2621.1 Engine total time : 852.6

Performed a 100 hr. inspection of this engine in accordance with FAR 43 appd D. Compressions check #1-70, #2-74, #3-76, #4-73/80. Cleaned, gapped and rotated sparkplugs. Checked magneto to engine timing. Drained oil. Removed and inspected filter. No defects noted. Installed new oil filter p/n AA4810-2. Serviced engine with 7qt Phillips 20w50. Cleaned and reinstalled fuel injectors. Complied with AD 2015-19-07 Fuel Injection lines per Lycoming SB342G. No defects noted. Next due @ tach 2721.1. Washed engine. Ground run and leak check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and was found to be in airworthy condition.

William Rickard AP 2960804

Page Total

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# ENGINE LOG

Serial No

Date



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2802 Airport Drive, Suite 1  
Chesapeake, Virginia 23323  
757-421-4973  
EPIXAviation.com

**N654MS**  
wo 51476  
Date: 18 Sept 2020

ENG

License  
Number

Tach reads: 2850.1 ETT: 1081.6

Complied with a 100 HOUR inspection in accordance with 14 CFR 43 Appendix D. Opened all cowl, 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: 74/78/76/74. Checked magneto timing. Cleaned, gapped, and rotated spark plugs. Replaced one spark plug in top #3 position. Complied with AD 2015-19-07 "Fuel injector fuel lines". No discrepancies noted. Next due at 2960.1 tach time. Run up and leak checked engine after inspection and service, no discrepancies noted. Reinstalled all cowl, 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.

*William A. Rickard*  
William A. Rickard A&P 2960804

Page Total

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DATE

# Service Bulletins, Letters, Instructions & A D Notes



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757-421-4973  
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**N654MS**  
wo 56321  
Date: 21 Dec 2020

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

Work performed by Mechanic's Apprentice S. Ennis, supervised and inspected by the undersigned.

*Dirk van den Brink, Jr.*  
Dirk van den Brink, Jr. A&P 3637044

DATE \_\_\_\_\_

## Service Bulletins, Letters, Instructions & A D Notes



EPIX AVIATION  
2802 Airport Drive, Suite 1  
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EpixAviation.com

**N654MS** ENG  
wo 57384  
Date: 29 Jan 2021

Tach reads: 2912.3 ETT: 1143.8

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 XC 20W50 oil. Compressions are as follows: 75/78/74/76. Checked magneto timing. Cleaned, gapped, and rotated spark plugs. Replaced missing bolt at starter mounting pad.

Complied with AD 2015-19-07 "Fuel Injector Fuel Lines", no discrepancies noted. No discrepancies noted, next due no later than 3022.3 hrs tach time. 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.

Dirk van den Brink, Jr. A&P IA 3637044

DATE \_\_\_\_\_

## Service Bulletins, Letters, Instructions & A D Notes



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

**N654MS** ENG  
wo 60570  
Date: 17 May 2021

Tach reads: 2950.6 ETT: 1182.1

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: 72/76/72/70. 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 3050.6 tach time. 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.

William A. Rickard A&P 2960804

DATE \_\_\_\_\_

# Service Bulletins, Letters, Instructions & A D Notes



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

**N654MS**

wo 62802

Date: 07/19/2021

Tach reads: 3009.3

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 Glenn Cleveland, supervised and inspected by the undersigned.

A handwritten signature in black ink, appearing to read "Dirk van den Brink, Jr.", written over a horizontal line.

Dirk van den Brink, Jr. A&P 3637044