

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 T0390A1A6 RL-438-80E
MAKE MODEL SERIAL

FROM July 7th 20 5 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-RT10592
Serial Number RL-438-80E
Engine Model IO-390-A1A6
Work Order HP605500
Total Time 0.0

Form 2481 Rev 05/13

Low L Adams 3/18/15

Authorized Representative Date

Production Certificate #3

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

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					



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Engine Make – Lycoming

N8749Z

July 7, 2015

Model – IO390-A1A6

SN – RL-438-80E

A/C Tach – 2760.1

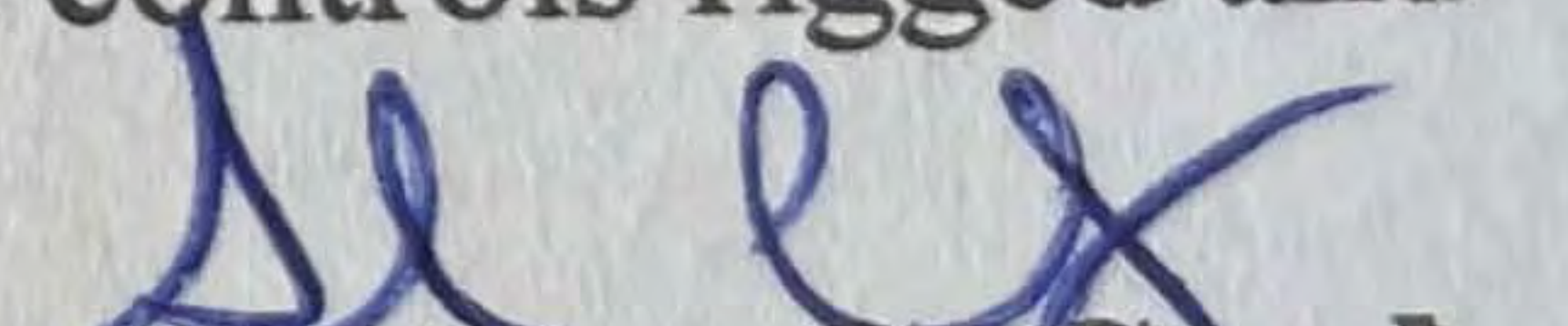
Engine Tach – 0

ETT - 0

ACTT – 2760.1

Un-Scheduled Maintenance

- Installed engine on N8749Z, Cessna 177RG, serial number 177RG-1351 per Alamo Aerospace, LP STC number SA10944SC. Refer to FAA Form 337 dated this date for installation information.
- Following installation per instructions, engine was serviced to full with Aeroshell 100W Straight Mineral oil.
- Engine was run up, leak checked and operationally tested. A compression test was performed on all cylinder and cylinders were all above 76/80. Idle settings were adjusted and controls rigged and lubricated.


Shawn C. Sayle
AP490825188

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			



Engine Make – Lycoming

N8749Z

November 09, 2015

Model – IO390-A1A6

SN – RL-4-80E

A/C Tach – 2831.6

ETT – 81.8

ACTT – 2831.6

Un-Scheduled Maintenance

- Drained oil. Removed, inspected and replaced oil filter with new part number CH48110-1. Added 8 Qts. Aeroshell 15W50 oil. Operationally tested and leak checked. No defects noted.


Shawn C. Sayle
AP490825188

Total to Date

Certificate Number MUST be Shown.



Date

January 4, 2016
SN - RL-438-80E
ACTT - 2846.3

Engine Make - Lycoming
Model - IO390-A1A6
A/C Tach - 2846.3

Engine Tach - 97.8

ETT - 97.8

Scheduled Maintenance

Inspected Engine in accordance with Cessna 177RG and Lycoming Maintenance Manual s checklist and requirements of 14CFR Part 43 APP D. Run up engine and cleaned prior to inspection.

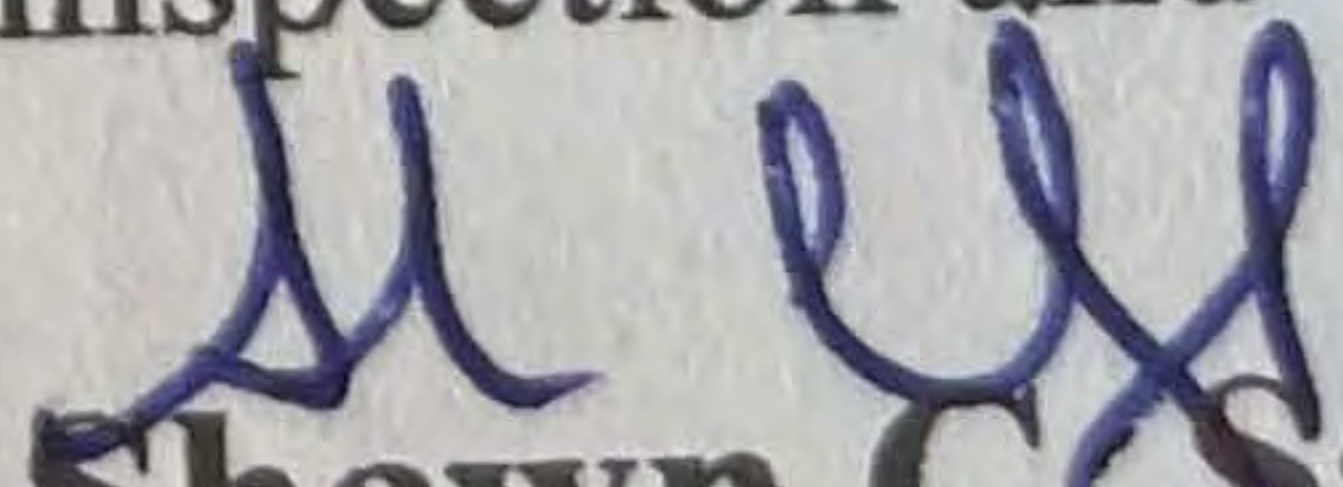
Compression tested cylinders; #1) 78/80, #2) 79/80, #3) 77/80, #4) 76/80.

Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Spark plugs removed, cleaned, gapped, inspected and re-installed. Timing checked. Fuel filters checked and cleaned. Operationally tested and leak checked following all work .

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 01/04/2016.

I certify that this ENGINE has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition.


Shawn C. Sayle
AP490825188IA

ENGINE LOG

Serial No. _____



N8749Z

Engine Make – Lycoming

Model – IO390-A1A6

A/C Tach – 2875.5

Engine Tach – 127.0

ETT – 127.0

August 15, 2016

SN – RL-438-80E

ACTT – 2875.5

Scheduled Maintenance

- Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil.
- Removed LH magneto. Disassembled and inspected for defects and wear. No defects noted. Assembled and installed. Timed to engine. Operationally tested and leak checked following all work .


Shawn C. Sayle
AP490825188

		Page Total
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		Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.



Engine Make – Lycoming

Model – IO390-A1A6

A/C Tach – 2900.9

Engine Tach – 162.8

ETT – 162.8

January 17, 2017

SN – RL-438-80E

ACTT – 2900.9

Scheduled Maintenance

Inspected Engine in accordance with Cessna 177RG and Lycoming Maintenance Manual s checklist and requirements of 14CFR Part 43 APP D. Run up engine and cleaned prior to inspection.

Compression tested cylinders; #1) 76/80, #2) 78/80, #3) 77/80, #4) 79/80.

Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Spark plugs removed, cleaned, gapped, inspected and re-installed. Timing checked. #2 Spark plug removed and replaced with new part number REB37E due to damage. Fuel filters checked and cleaned. Fuel injector nozzles removed, cleaned, inspected, installed, and torqued. Operationally tested and leak checked following all work .

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 01/09/2017.

I certify that this ENGINE has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition.

Shawn C. Sayle
AP490825188IA

ENGINE LOG

Serial No. _____

Date	Time		Signature	License Number
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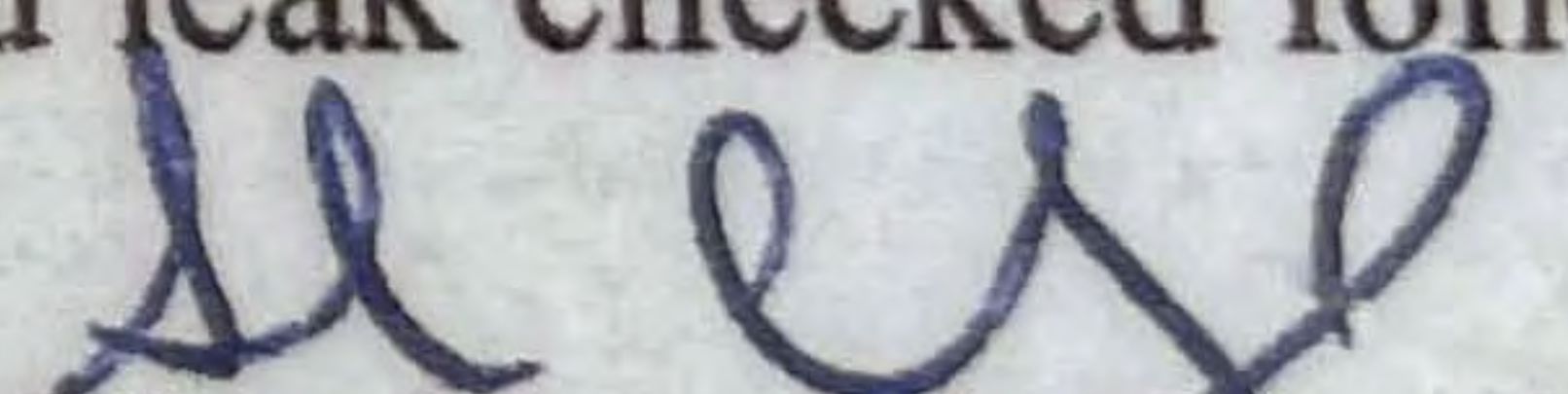


Engine Make – Lycoming
Model – IO390-A1A6
A/C Tach – 2923.4 Engine Tach – 185.3 ETT – 185.3 ACTT – 2923.4

September 18, 2017
SN – RL-438-80E

Scheduled Maintenance

Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Operationally tested and leak checked following all work .


Shawn C. Sayle
AP490825188

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Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____



Engine Make – Lycoming

Model – IO390-A1A6

A/C Tach – 2937.7

Engine Tach – 207.1

ETT – 207.1

February 2, 2018

SN – RL-438-80E

ACTT – 2937.7

Scheduled Maintenance

Inspected Engine in accordance with Cessna 177RG and Lycoming Maintenance Manual s checklist and requirements of 14CFR Part 43 APP D. Run up engine and cleaned prior to inspection.

Compression tested cylinders; #1) 79/80, #2) 78/80, #3) 79/80, #4) 79/80.

Removed and replaced oil quick drain valve with new SAF-AIR part number P5000 drain. Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Spark plugs removed, cleaned, gapped, inspected and re-installed. #4 lower spark plug removed and replaced with new part number REB37E due to damage. Engine timing to magneto adjusted to 20 degrees BTDC as required.

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Total to Date

Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			

Con't


Page 2 of 2

Fuel filters checked and cleaned. Fuel injector nozzles removed, cleaned, inspected, installed, and torqued. Operationally tested and leak checked following all work.

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 02/01/2018.

I certify that this **ENGINE** has been inspected in accordance with an **ANNUAL** inspection and was determined to be in an airworthy condition.


Shawn Q. Sayle
AP490825188IA

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Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			



Engine Make – Lycoming
Model – IO390-A1A6
A/C Tach – 2969.0

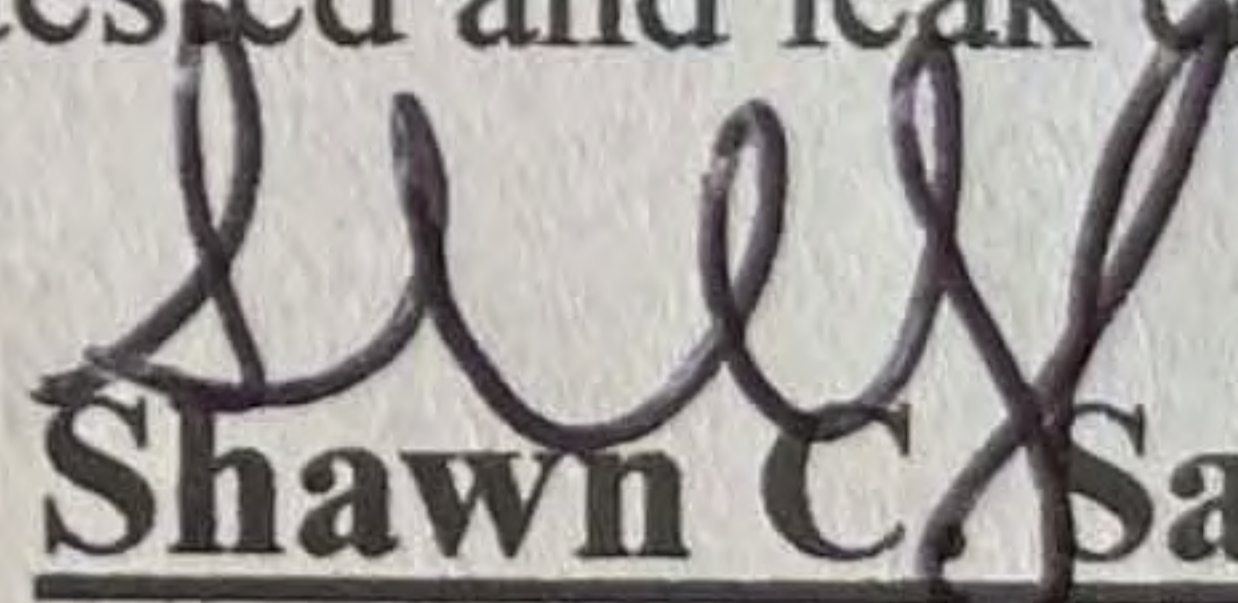
N8749Z

ETT – 238.4

June 18, 2018
SN – RL-438-80E
ACTT – 2969.0

Scheduled Maintenance

Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Run up, operationally tested and leak checked.


Shawn C. Sayle
AP490825188

Total to Date

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS	ADJUSTMENTS	SERVICE	COST	License Number
	Start	End					



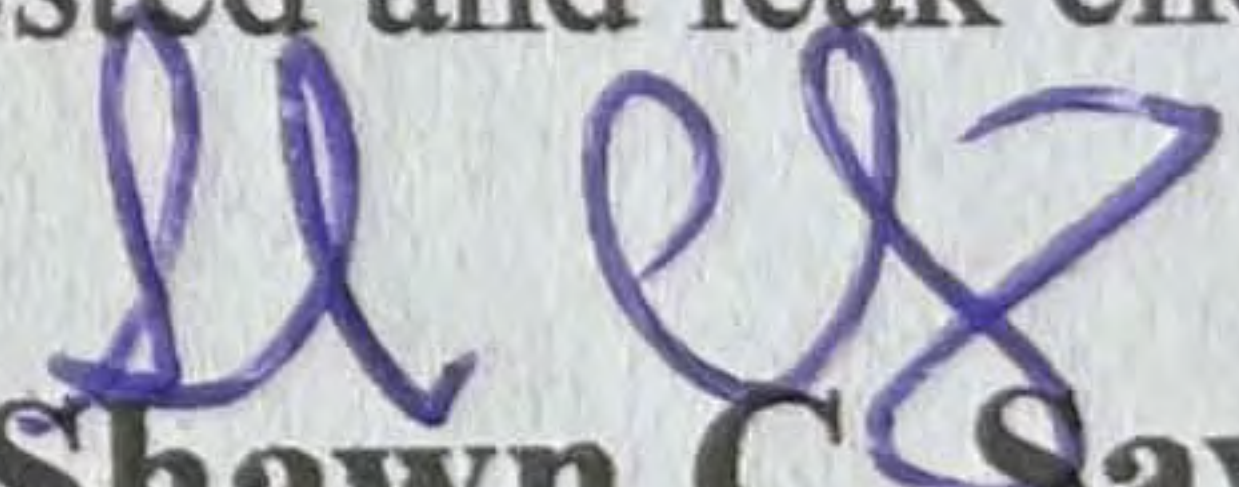
Engine Make – Lycoming
Model – IO390-A1A6
A/C Tach – 2996.2

N8749Z

October 18, 2018
SN – RL-438-80E
ACTT – 2996.2

Scheduled Maintenance

Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 7 Quarts Aeroshell 15W50 oil. Run up, operationally tested and leak checked.


Shawn C. Sayle
AP490825188

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			Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

Date _____

Month _____
Year _____



Engine Make – Lycoming

Model – IO390-A1A6

A/C Tach – 3010.4

Engine Tach – 292.50

ETT – 292.50

February 16, 2019

SN – RL-438-80E

ACTT – 3010.4

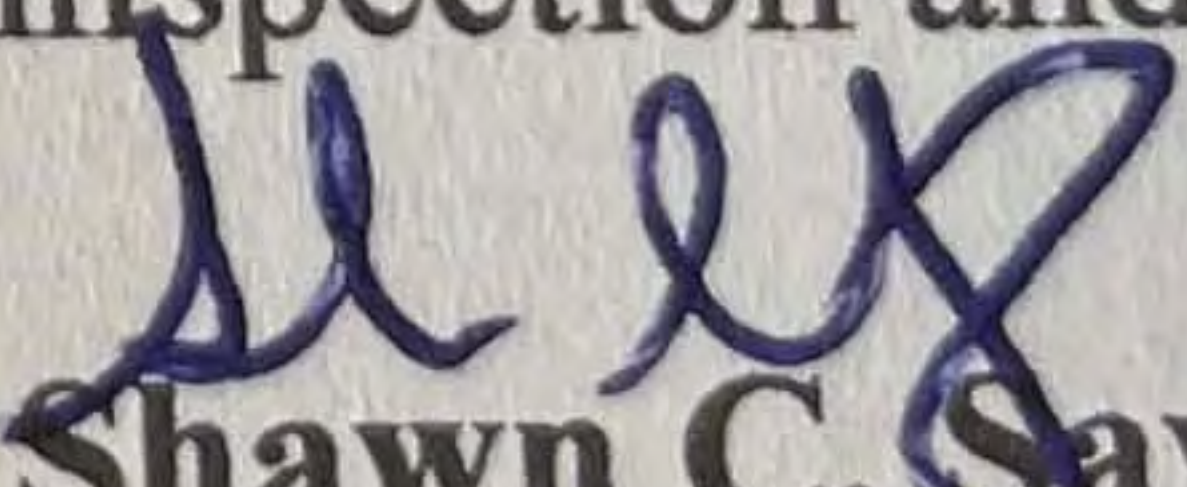
Scheduled Maintenance

Inspected Engine in accordance with Cessna 177RG and Lycoming Maintenance Manual s checklist and requirements of 14CFR Part 43 APP D. Run up engine and cleaned prior to inspection. **Compression tested cylinders; #1) 76/80, #2) 77/80, #3) 78/80, #4) 79/80.** Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Spark plugs removed, cleaned, gapped, inspected and re-installed.

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 02/16/2019.

I certify that this ENGINE has been inspected in accordance with an ANNUAL inspection and was determined to be in an airworthy condition.


Shawn C. Sayle
AP490825188IA

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			



SRT AVIATION, INC
Mount Vernon, Illinois - MVN
N8749Z

<p>Engine Make – Lycoming Model – IO390-A1A6 A/C Tach – 3040.1</p>	<p>Engine Tach – 328.9</p>	<p>ETT – 328.9</p>
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October 3, 2019
SN – RL-438-80E
ACTT – 3040.1

Scheduled Maintenance
Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Run up, operationally tested and leak checked.


Joshua Roy Hackworth
AP# 3298832

				<p style="font-size: small;">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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			Total to Date	

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			



Engine Make – Lycoming
 Model – IO390-A1A6
 A/C Tach – 3051.6

Engine Tach – 342.8

ETT – 342.8

March 12, 2020
 SN – RL-438-80E
 ACTT – 3051.6

Scheduled Maintenance

Inspected Engine in accordance with Cessna 177RG and Lycoming Maintenance Manual s checklist and requirements of 14CFR Part 43 APP D. Run up engine and cleaned prior to inspection. Compression tested cylinders; #1) 76/80, #2) 78/80, #3) 78/80, #4) 79/80. Drained oil. Removed, inspected and replaced filter with new CH48110-1 filter. No metal noted. Sample taken for analysis. Added 8 Quarts Aeroshell 15W50 oil. Spark plugs removed, cleaned, gapped, inspected and re-installed. Operationally tested and leak checked without defects.

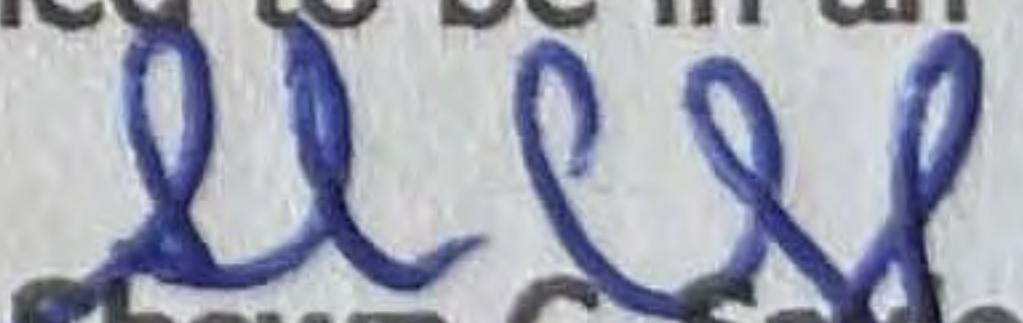
Un-Scheduled Maintenance

CW SEL 74-05 by removing LH & RH magneto's and reinstallation following repair by Champion Aerospace and replacement of affected gears. Inspected, installed and timed to engine. Operationally tested without defects noted.

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 03/12/2020.

I certify that this **ENGINE** has been inspected in accordance with an **ANNUAL** inspection and was determined to be in an airworthy condition.


 Shawn C. Sarte
 AP490825188IA

ENGINE LOG

Serial No. _____

Engine Logbook Entry

N8749Z

Work Order: 2160

Aircraft: Cessna 177RG

Engine: LYC IO-390

Aircraft S/N: 177RG1351



Spectrum Aero, LLC

4004 5th St.

Kissimmee, FL 34741

www.SpectrumAero.com

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Tach: 3076.7

The following work was performed:

Removed cowling. Drained oil, removed filter. Inspected element with no defects noted. Installed new filter. Serviced engine with 8 quarts Aeroshell 15W-50 oil. Post maintenance operational leak check good. Installed cowling.

I certify this engine is determined to be in an airworthy condition and is approved for return to service. All work was performed in accordance with current Federal Aviation Regulations and Lycoming IO-390 service/maintenance manual.

Charles Wilson

A&P Mechanic 3114515 I.A

Date released: 7/16/2020

Page Total

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Total to Date

All repair data must bear the endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be shown.

ENGINE LOG

Serial No. _____

Engine Logbook Entry

N8749Z

Work Order: 2363

Aircraft: Cessna 177RG
Engine: LYC IO-390-A1A6

Aircraft S/N: 177RG1351
Engine S/N: RL-438-80E



Spectrum Aero, LLC
4004 5th St.
Kissimmee, FL 34741
www.SpectrumAero.com

Tach: 3103.9

Eng TSN: 411.6

Complied with FAA FAR 91.409 Annual inspection IAW FAA FAR 43.15c(2), appendix D using the Cessna 177RG 100 hour inspection checklist as a guide. Airworthiness Directive compliance current through 2021-07.

Cylinder compressions: (1) 76 (2) 78 (3) 73 (4) 76. Drained oil, removed filter, inspected element with no defects noted. Installed new filter. Serviced engine with 8 quarts oil. Removed, cleaned, inspected, serviced/gapped and installed spark plugs. Replaced #1 bottom spark plug with new. Lubricated all engine controls/actuators. Verified correct magneto timing to engine. Repaired fuel strainer handle return. Installed hose clamp at cabin heat duct. Post maintenance operational checks good with no leaks noted.

I certify this engine has been inspected IAW an Annual inspection and determined to be in an airworthy condition and approved for return to service. All work was performed in accordance with current Federal Aviation Regulations and Cessna 177RG maintenance manual.

Charles Wilson

A&P Mechanic 3114515 I.A

Date released: 5/1/2021

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ENGINE LOG

Serial No. _____

Engine Logbook Entry

N8749Z

Work Order: 2810

Aircraft: Cessna 177RG
Engine: LYC IO-390-A1A6

Aircraft S/N: 177RG1351
Engine S/N: RL-438-80E



Spectrum Aero, LLC
4004 5th St.
Kissimmee, FL 34741
www.SpectrumAero.com

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Tach: 3117.9

Eng TSN: 425.6

Complied with FAA FAR 91.409 Annual inspection IAW FAA FAR 43.15c(2), appendix D using the Cessna 177RG 100 hour inspection checklist as a guide. Airworthiness Directive compliance current through 2022-13.

Cylinder compressions: (1) 74 (2) 76 (3) 74 (4) 76. Drained oil, removed filter, inspected element with no defects noted. Installed new filter. Serviced engine with 8 quarts oil. Removed, cleaned, inspected, serviced/gapped and installed spark plugs. Serviced all fuel injector nozzles. Cleaned, treated and installed lower exhaust adapter. Lubricated all engine controls/actuators. Verified correct magneto timing to engine. Post maintenance operational checks good with no leaks noted.

I certify this engine has been inspected IAW an Annual inspection and determined to be in an airworthy condition and approved for return to service. All work was performed in accordance with current Federal Aviation Regulations and Cessna 177RG maintenance manual.

Charles Wilson

A&P Mechanic 3114515 I.A.

Date released: 7/1/2022