

N2170Q



The Standard

ENGINE LOG

ASA-SE-2

Engine Record General InformationManufacturer LYCOMING Model I0-360A1B6DSerial L-12568-51A Type Certificate _____This engine is currently installed in aircraft: CESSNA CARDINAL 177RG N2170QMinimum Octane Fuel 100 LL Oil Grade Summer 50 ACROSHEN Winter 20-50

Magnetos Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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10/1/2015 TT 1882.5 TSMOH 156.2 TSTOH 1.3

- 1) Removed cowlings. Cleaned and inspected all spark plugs.
 - 2) performed differential compression test. 1) 60/80 2) 72/80 3) 40/80 4) 69/80
 - 3) bore scoped all cylinders checked for wear and valve seating. Found cracked rings, Cylinders had wear marks, too much side clearance on pistons. #4 cylinder had oil leaking out of cylinder after plug removed. Removed all cylinders sent out for another overhaul. Unacceptable. Sent to Performance Aircraft Power plants. Replaced with (4) overhauled cylinders, Nickel Barrel, standard bore, plasma rings. (WO # 3400) Replaced Sump gasket as well. Ran Engine checked for leaks. OK at this Time. New compression test 1) 79/80 2) 78/80 3) 78/80 4) 78/80 OK at this time
 - 4) inspected all linkage to the fuel injector
 - 5) inspected exhaust for leakage and cracks. Replaced Exhaust gaskets with "NO Blow" gaskets OK at this time
 - 6) checked timing to 25' BTDC OK at this time.
 - 7) torque'd all bolts on the oil sump and case halves
 - 8) inspected all fuel injector lines IAW AD 2011-26-04 for cracks. OK at this time
 - 9) serviced engine with 7 quarts of Aero Shell 65 mineral oil.. Replaced oil filter with CH48103
- I certify that this engines been inspected in accordance with a annual inspection and was determined to be in Airworthy condition for return to service. Michael Rohlmann IA 2801322 *Michael Rohlmann*

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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10/1/2016 TT 1905.2 TSMOH 178.9 TSTOH 21.3

- 1) Removed cowlings. Cleaned and inspected all spark plugs.
 - 2) performed differential compression test. 1)78/80 2) 75/80 3) 77/80 4) 79/80
 - 3) Inspected all Hoses for chaffing, Torqued all case half bolts and sump bolts. No leaks
 - 4) inspected all linkage to the fuel injector
 - 5) inspected exhaust for leakage and cracks.
 - 6) checked timing to 25' BTDC OK at this time.
 - 7) torque'd all bolts on the oil sump and case halves
 - 8) inspected all fuel injector lines IAW AD 2011-26-04 for cracks. OK at this time
 - 9) serviced engine with 7 quarts of Aero Shell 65 mineral oil.. Replaced oil filter with CH48103
- I certify that this engines been inspected in accordance with a annual inspection and was determined to be in Airworthy condition for return to service. Michael Rohlmann IA 2801322 *Michael Rohlmann*

YEAR MO DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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10/15/2017 ACTT 1910.00 TSMOH 183.7 TSTOH 26.1

Cleaned and inspected plugs

Compression test: COLD 1)77/80 2)74/80 3)75/80 4)74/80

Checked timing 25 BTDC Ok at this time

Inspected exhaust for leaks Ok at this time

Check all case half bolts and sump bolts for proper torque

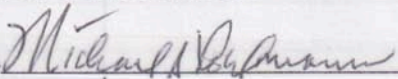
Serviced Engine with 7 quarts of Aero Shell 65 mineral oil. Replaced oil filter with CH 48103 filter cut open old filter no contaminants or debris found

Checked Hex Plug on fuel servo for tightness SB PRS-107 OK at this time

C/W by inspection AD 2008-14-07 fuel injection lines (no cracks or chaffing)

I certify that this Engine has been inspected IAW a annual inspection and was determined to be in airworthy condition for return to service

Michael Rohlmann A/P I/A



2801322 END

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				21.271.91

10/15/2018 ACTT 1910.09 TSMOH 184.6 TSTOH 27

Compression test: COLD 1)76/80 2)75/80 3)75/80 4)76/80

Checked timing 25 BTDC Ok at this time

Inspected exhaust for leaks Ok at this time

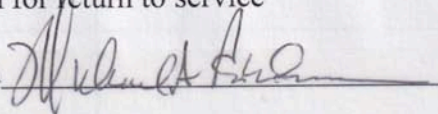
Check all case half bolts and sump bolts for proper torque

Checked Hex Plug on fuel servo for tightness SB PRS-107 OK at this time

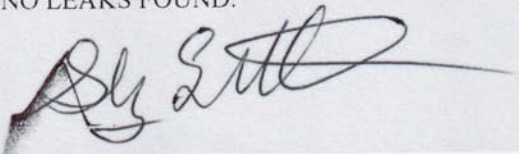
C/W by inspection AD 2008-14-07 fuel injection lines (no cracks or chaffing)

I certify that this Engine has been inspected IAW a annual inspection and was determined to be in airworthy condition for return to service

Michael Rohlmann A/P I/A



2801322 END

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				<p>N2170Q C-177RG S/N 177RG0570 TACH. 1,953.1 DATE JULY 20, 2019.</p> <p>COMPLETED AN OIL CHANGE, SERVICED WITH 8 qts. PHILLIPS X/C 20W50 AND AA48103-1 FILTER, INSTALLED GAMI INJECTOR KIT #GL10-4 S/N 28252 IN ACCORDANCE WITH STC SE09445SC AND GAMI INJECTOR INSTALLATION PROCEDURE No. IP-98-001, SEE FAA FORM 337 DATED 7-20-2019, TEST RAN ENGINE AND NO LEAKS FOUND.</p> <p>SHAY EVERETT A/P34210201A </p>

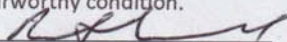
Aviation Plus LLC

262-656-1260

Aviationplusllc.com

10/06/2019 N2170Q Tach 1993 TTE 1993 SMOH 267 STOH 109

Compressions: 1)78, 2)78, 3)78, 4)78. Changed oil and filter (7qts Phillips 20W50 X/C). Secured mixture and prop bolts. Replaced #1 intake gasket. Cleaned injectors. All routine items checked per inspection sheets. FAR43 App D. I certify that this engine was inspected in accordance with an annual inspection and was determined to be in airworthy condition.



Robert Russell 3411885IA

YEAR
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DATE

RECORDING
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TOTAL
TIME IN
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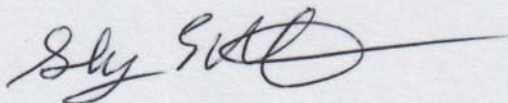
Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

N2170Q C-177RG S/N 177RG0570 TACH. 2,027.7 DATE NOVEMBER 26, 2019.

COMPLETED AN OIL CHANGE, SERVICED WITH 8 qts. PHILLIPS 20W50 X/C AND CH48103-1 FILTER, TEST RAN ENGINE AND NO LEAKS FOUND.

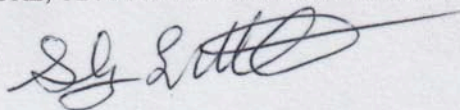
SHAY EVERETT A/P34210201A



N2170Q C-177RG S/N 177RG0570 TACH. 2,031.4 DATE DECEMBER 12, 2019.

COMPLETED A COMPRESSION TEST #1 79/80 #2 78/80 #3 79/80 #4 79/80, CLEANED FUEL INJECTOR NOZZLES, TESTED FUEL FLOW FROM FLOW DIVIDER, CHECKED FUEL INLET SCREEN ON FUEL SERVO, INSTALLED NEW INTAKE SEAL P/N 77569 ON #1 CYLINDER, SAFETIED OIL FILLER TUBE, ADJUSTED IDLE MIXTURE, TEST RUN OF ENGINE SATISFACTORY.

SHAY EVERETT A/P34210201A



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20
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Description of Inspections, Tests, Repairs and Alterations

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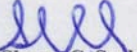

SRT AVIATION, INC
Mount Vernon, Illinois - MVN
N2170Q

Engine Make - Lycoming
Model - IO360-A1B6D
Tach - 2053.8

January 21, 2020
SN -L-12568-51A

Scheduled Maintenance

Drained oil. Removed, inspected and replaced filter with new CH48103-1 filter. No metal noted. Sample taken for analysis. Added 7 Quarts Phillips XC20W50 oil. Added Camguard at owner's request. Spark plugs removed, cleaned, gapped, inspected and re-installed. Removed, inspected, cleaned and reinstalled all fuel injector nozzles. Torqued to 55 lb./in. and leak checked oil and fuel systems. Cowling removed to facilitate work was then reinstalled and secured.


Shawn C. Sayle
AP4908251881A

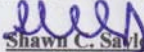

SRT AVIATION, INC
Mount Vernon, Illinois - MVN
N2170Q

Engine Make - Lycoming
Model - IO360-A1B6D
Tach - 2097.4

March 26, 2020
SN -L-12568-51A

Scheduled Maintenance

Drained oil. Removed, inspected and replaced filter with new Tempest AA48103-2 filter. No metal noted. Sample taken for analysis and provided to owner. Added 7 Quarts Phillips XC20W50 oil. Added Camguard at owner's request as specified. Cowling removed to facilitate work was then reinstalled and secured. Leak checked and operationally tested. No defects or further actions.


Shawn C. Sayle
AP490825188

YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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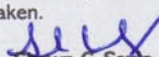

SRT AVIATION, INC
 Mount Vernon, Illinois - MVN
 N2170Q

Engine Make - Lycoming
 Model - IO360-A1B6D
 Tach - 2124.2

Scheduled Maintenance

Removed all spark plugs. Cleaned, inspected, gapped, tested, reinstalled and torqued. Slightly adjusted clock angle of crankcase RH forward oil line fitting to allow clearance between fitting and baffling. No further actions taken.

May 20, 2020
 SN -L-12568-51A


 Shawn C. Sayle
 AP490825188

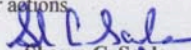

SRT AVIATION, INC
 Mount Vernon, Illinois - MVN
 N2170Q

Engine Make - Lycoming
 Model - IO360-A1B6D
 Tach - 2139.2

Scheduled Maintenance

Drained oil. Removed, inspected, and replaced filter with new Tempest AA48103-2 filter. No metal noted. Sample taken for analysis and provided to owner. Added 7 Quarts Phillips XC20W50 oil. Added Camguard at owner's request as specified. Cowling removed to facilitate work was then reinstalled and secured. Leak checked and operationally tested. No defects or further actions.

June 12, 2020
 SN -L-12568-51A


 Shawn C. Sayle
 AP490825188

YEAR
20
DATE

RECORDING
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TIME

TODAY'S
FLIGHT

TOTAL
TIME IN
SERVICE

Description of Inspections, Tests, Repairs and Alterations

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SRT AVIATION, INC

Mount Vernon, Illinois - MVN

N2170Q

Engine Make - Lycoming

Model - IO360-A1B6D

Tach - 2182.0

ACTT - 2182.0

ETT - 2182.0

October 5, 2020

SN - L-12568-51A

SMOH - 455.82

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)79/80, #3)78/80, #4)79/80. Drained oil. Removed, inspected, and replaced filter with new CH48103-1 filter. No metal noted. Sample taken for analysis. Added 7 Quarts Phillips XC20W50 oil and Camguard as required. Spark plugs removed, cleaned, gapped, inspected and re-installed. Operationally tested and leak checked.

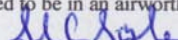
Un-Scheduled Maintenance

- Removed and replaced 1 of 2 #2-cylinder exhaust studs due to condition with new part number SL31C-10.
- Removed fuel servo plug and replaced gasket with new part number CF365533. Reinstalled, torqued and marked "G" on the center of the plug to illustrate compliance with AD 2008-06-51. Leak checked. No further defects.
- Torqued all cylinder valve covers as required.

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 10/05/2020.

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. Szyle
AP4908251881A

YEAR 20 _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)
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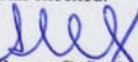

SRT AVIATION, INC
 Mount Vernon, Illinois - MVN
 N2170Q

Engine Make – Lycoming
 Model – IO360-A1B6D
 Tach – 2216.7

January 13, 2021
 SN – L-12568-51A

Un-Scheduled Maintenance

- Spark plugs removed, cleaned, gapped, inspected, re-installed and torqued. Operationally tested and leak checked.
- Removed fuel injectors nozzles. Inspected, cleaned, reinstalled, torqued and leak checked.


 Shawn C. Sayle
 AP490825188

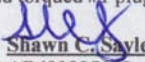

SRT AVIATION, INC
 Mount Vernon, Illinois - MVN
 N2170Q

Engine Make – Lycoming
 Model – IO360-A1B6D
 Tach – 2221.5

January 29, 2021
 SN – L-12568-51A

Un-Scheduled Maintenance

- Drained oil. Removed, inspected, and replaced oil filter with new AA48103-2 Tempest filter. Sample taken for analysis and given to owner. Added 7 Qts. Phillips XC oil and CAMGUARD as required. Operationally tested and leak checked.
- Removed #1 top spark plug and checked magneto to engine timing. No defects noted. Reinstalled and torqued #1 plug using new gasket M-674.


 Shawn C. Sayle
 AP490825188

YEAR
20
DATE

RECORDING
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TIME

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FLIGHT

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TIME IN
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Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries)



SRT AVIATION, INC

Mount Vernon, Illinois - MVN

N2170Q

Engine Make - Lycoming
Model - IO360-A1B6D
Tach - 2259.3

May 14, 2021
SN - L-12568-51A

Un-Scheduled Maintenance

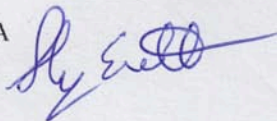
- Drained oil. Removed, inspected, and replaced oil filter with new AA48103-2 Tempest filter. Sample taken for analysis and given to owner. Added 7 Qts. Phillips XC oil and CAMGUARD as required. Operationally tested and leak checked.


Shawn C. Sayle
AP490825188

N2170Q C-177RG S/N 177RG0570 TACH. 2,300.8 DATE SEPTEMBER 22, 2021.

COMPLETED AN OIL CHANGE, SERVICED WITH 8 qts. PHILLIPS X/C 20W50
AND AA48103-2 FILTER, TEST RAN ENGINE AND NO LEAKS FOUND.

SHAY EVERETT A/P34210201A



YEAR 20 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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SRT AVIATION, INC

Mount Vernon, Illinois - MVN

N2170Q

November 15, 2021

SN -L-12568-51A

SMOH - 579.42

Engine Make - Lycoming

Model - IO360-A1B6D

Tach - 2305.6

ACTT - 2305.6

ETT - 2305.6

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)79/80, #2)78/80, #3)79/80, #4)79/80.**
 Drained oil. Removed, inspected, and replaced filter with new CH48103-1 filter. No metal noted. Sample taken for analysis. Added 7 Quarts Phillips XC20W50 oil and Camguard as required. Spark plugs removed, cleaned, gapped, inspected and re-installed.
 Operationally tested and leak checked.

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 11/09/2021.

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

AP4908251881A

YEAR 20 <u>22</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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SRT AVIATION, INC

Mount Vernon, Illinois - MVN

N2170Q

Engine Make - Lycoming

Model - IO360-A1B6D

Tach - 2344.1

ACTT - 2344.1

ETT - 2344.1

December 19, 2022

SN - L-12568-51A

SMOH - 617.6

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)78/80, #2)76/80, #3)79/80, #4)77/80. Drained oil. Removed, inspected, and replaced filter with new CH48103-1 filter. No metal noted. Sample taken for analysis. Added 7 Quarts Phillips XC20W50 oil and Camguard as required. Spark plugs removed, cleaned, gapped, inspected and re-installed. Adjusted idle mixture towards lean for 200 RPM rise. Operationally tested and leak checked. Idle speed 700 and mixture now 50 RPM rise.

Airworthiness Directives

Reference Aircraft Registration Profile revision dated 12/19/2022.

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
Shawn C. Sayle
AP4908251881A

7-22-2023 2359.0

Add 1 qt. Phillips XC20W50

YEAR
20 24
DATE

CONRAD AERO

1200 Flight Line Dr. Unit 516 Three Rivers, MI 49093

Phone: (269) 279-6000

Engine log entry

N2170Q

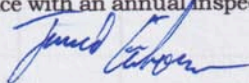
Iterations
Number of
ific entries

Date: 01-10-2024

Tach Time: 2376.9

SMOH: 650.9

Performed annual inspection by removing and inspecting engine cowling. Inspected exhaust, intake, hoses, firewall, lord mounts, engine mount, wiring, starter, alternator, belt, scat tubing, and baffling. Installed new Gates alternator belt P/N F3376-37A19773, and tightened oil return lines. Installed new Adel clamps as required, and installed new line on vacuum pump. Removed top spark plugs and performed compressions: 1-77 2-73 3-74 4-76. Checked mag timing, pass, and removed remaining spark plugs; cleaned, gapped, rotated and installed spark plugs with antiseaze. Inspected oil quick drain for proper operation and took oil sample per owner's request. Drained oil from oil pan and oil cooler, removed oil filter, and cut old filter open; no metal found. Installed new AA48103-1 oil filter and safetied; added 7 qts of 15w50 oil. Removed, inspected, cleaned, serviced and reinstalled reusable air filter. Cleaned fuel strainer, and installed new O-rings as needed. C/W AD 15-19-07 by inspecting fuel injection lines and clamps, pass; due in 100 hrs. Recowled engine, and performed ground run. I certify this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition at this time.



Jared Eichorn A&P 4099632 IA

9-2 2422.1 change oil/filter Aeroshell 15w50 cut
filter OK Champion (48103-1)
A&P 1533124 J. McConville
1703 Ave 6 land

YEAR
2025
DATE

RI
T/
TI

CONRAD AERO

1200 Flight Line Dr. Unit 516 Three Rivers, MI 49093

Phone: (269) 279-6000

Engine log entry

N2170Q

Date: 2-11-2025

Tach Time: 2445.8

SMOH: 719.8

Performed annual inspection by removing and inspecting engine cowling. Inspected exhaust, intake, hoses, firewall, lord mounts, engine mount, wiring, starter, alternator, belt, scat tubing, and baffling. Tightened oil return lines. Installed new exhaust nut and washer as required on #4 cylinder. Removed top spark plugs and performed compressions: 1-78 2-76 3-78 4-78. Checked mag timing, pass, and removed remaining spark plugs; cleaned, gapped, rotated and installed spark plugs with anti-seize. Removed, inspected, cleaned, serviced and reinstalled reusable air filter. Cleaned fuel strainer, no abnormalities found. C/W AD 15-19-07 by inspecting fuel injection lines and clamps, pass; due in 100 hrs. Recowled engine, and performed ground run. I certify this engine has been inspected in accordance with an annual inspection and was found to be in an airworthy condition at this time.

Jared Eichorn

Jared Eichorn A&P 4099632 IA

Operations

Number of
entries.)

4-4	2450		Overhaul MAGNETO D3000 Series A+P1533124 Wm Newcomer
4-11-25	2450		Replace Flow divider PART# 2524232-2 SERIAL/BATCH #M257 A+P 1533124 Wm Newcomer
4-25-25	2450		Overhauled Servo P.#2524054-11 S.# 60756 Wm Newcomer A+P1533124

No. 32602

Injection Servo



1916 Industrial Drive, P.O. BOX 430
Niles, Michigan 49120
1-800-446-8160 Fax 1-269-684-8375

WARRANTY DATA CARD

The following information must be
supplied when requesting warranty
consideration:

2524054-11 47816

P/N

S/N

W/O

DATE INSTALLED

DATE REMOVED

4-25-25

4-20-25

2450.4

2450.4

TACH TIME

TACH TIME

OWNERS NAME

Wm Newlander

ADDRESS

1031050 Westledge

Portage MI 49002

PHONE

269 207-2621

RETAIN THIS CARD WITH AIRCRAFT LOG BOOKS

LAST PAGE