

## Engine Log Book

Date: ~~October 25<sup>th</sup> 2019~~ **RAB****AirMart**  
AIRCRAFT SALES & BROKERAGE

Reg No: <b>N139PS</b>	Aircraft type: <b>DA40</b>	Aircraft S/N: <b>40.518</b>
Tach: <b>1057.2</b>	Hobbs: <b>1238.1</b>	Aircraft Total Time: <b>1238.1</b>
Engine Total Time:	Engine SMOH: <b>N/A</b>	Engine S/N: <b>L-31929-514</b>
Prop Total Time:	Prop SMOH: <b>N/A</b>	Prop S/N: <b>CH38811B</b>

1. I certify that this aircraft 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, and using the Diamond Maintenance Manual inspection guide as a reference.

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: **2-19-2020**Signed: 

Robert A. Bourland 3795668 AP/IA

**AirMart**  
AIRCRAFT SALES & BROKERAGE

## Engine Log Book

Date: **February 19<sup>th</sup> 2020**

Reg No: <b>N139PS</b>	Aircraft type: <b>DA40</b>	Aircraft S/N: <b>40.518</b>
Tach: <b>1057.2</b>	Hobbs: <b>N/A</b>	Aircraft Total Time: <b>1057.2</b>

1. I certify that this aircraft 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, and using the Diamond Maintenance Manual inspection guide as a reference.
2. All AD's were checked for compliance to this date.
3. AD2015-19-07 was complied with at 1055.4 Tach time. Next due at 1165 Tach time or if maintenance is performed on fuel injection system whichever comes first.

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: **2/19/2020**Signed: 

Robert A. Bourland 3795668 AP/IA

ENGINE MODEL: Lycoming

IO-360-M1A

ENGINE S/N: L-31929-51A

REG. NO: N139PS

WORK ORDER: 2308-06-2020

**Advantage Aviation, Inc.**

1903 Embarcadero Road

Palo Alto, CA 94303 USA

Phone: 650-494-6946 (Hangar)

DATE: 12 June, 2020

A/C TSN: 1107.49

ENG TT: 1107.49

TSMOH:

TACH: 1107.49

**Engine Entries**

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new CH48110-1 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. OPS and leak check good. No defects noted at this time. All work and inspections completed IAW an in house checklist... (3) C/W AD2015-19-07 Fuel Injection Line Inspection, no leaks or defects found, next due: 1207.5 hrs. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 12 June, 2020

SIGNED: 

Don Ganschow, A&amp;P: 3830225

Work Order: 2308-06-2020

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ENGINE MODEL: Lycoming

IO-360-M1A

ENGINE S/N: L-31929-51A

REG. NO: N139PS

WORK ORDER: 2390-07-2020

**Advantage Aviation, Inc.**

1903 Embarcadero Road

Palo Alto, CA 94303 USA

Phone: 650-494-6946 (Hangar)

DATE: 23 July, 2020

A/C TSN: 1153.5

ENG TT: 1153.5

TSMOH:

TACH: 1153.5

**Engine Entries**

(2) Completed 100 Hour Inspection. Compression results: #1-72/80, #2-74/80, #3-74/80, #4-75/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, p/n CH48110-1, examined old element - no defects noted. Serviced engine with 8 qts of Aeroshell 15W50. Cleaned, inspected, gapped, tested spark plugs. Rotated and re-installed. Verified magneto timing. Engine run and leak check, no leaks or faults found.... (4) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next Due: Tach: 1253.5... (8) timed magnetos @ 25dg. END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in airworthy condition

DATE: 23 July, 2020

SIGNED: 

Chris Lund, A&amp;P: 3127640

Work Order: 2390-07-2020

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TOTAL 1

TOTAL  
PREVIOUS

TO

SINC -



# MAINTENANCE RECORD

6

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 2543-10-2020

Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 02 October, 2020  
A/C TSN: 1209.8  
ENG TT: 1209.8  
TSMOH:  
TACH: 1209.8

LICENCE  
NUMBER

## Engine Entries

(2) Completed 50 Hour service - ENGINE. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced oil filter with p/n CH48110-1. Examined old oil filter element, no contamination found. Serviced engine with 8 quarts AeroShell 15W50 oil. Removed bottom spark plugs, inspected, cleaned, checked / adjusted gap, and tested. Rotated and re-installed using new gaskets. Ground ran engine, leak and ops check good. No leaks or defects noted. Returned to service. (3) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults or fuel leaks found, next due @ 1309.8 hrs - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 02 October, 2020

SIGNED:

Chris Lund, A&P: 3127640

Work Order: 2543-10-2020

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 2653-11-2020

Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 03 December, 2020  
A/C TSN: 1263.8  
ENG TT: 1263.8  
TSMOH:  
TACH: 1263.8

## Engine Entries

(2) Completed 100 Hour Inspection. Compression results: #1-70/80, #2-77/80, #3-75/80, #4-73/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, p/n CH48110-1, examined old element - no defects noted. Serviced engine with 8 qts of Aeroshell 15W50. Cleaned, inspected, gapped, tested spark plugs. Rotated and re-installed. Verified magneto timing.... (4) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next Due: Tach: 1363.7... (7) Found muffler brace cracked in two places. Replaced with new P/N D41-7806-20-01 brace and D41-7806-20-02 bracket.... (8) Found engine had rich stumble. Leaned by three notches on throttle body. Engine run and leak check, no leaks or faults found. -END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (Annual Insp) and has been determined to be in airworthy condition.

DATE: 03 December, 2020

SIGNED:

Bill Mercer, A&P: 3804685

Work Order: 2653-11-2020

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 2784-02-2021

Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 25 February, 2021  
A/C TSN: 1311.6  
ENG TT: 1311.6  
TSMOH:  
TACH: 1311.6

## Engine Entries

(2) Completed Annual Inspection - ENGINE. Compression results: #1-72/80, #2-78/80, #3-75/80, #4-74/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, p/n CH48110-1, examined old element - no contamination found. Serviced engine with 8 qts of Aeroshell 15W50. Removed spark plugs, inspected, cleaned, gapped, and tested. Replaced one plug with new REM38E. Rotated and re-installed using new gaskets. Verified magneto timing. Note: magneto 500 hour inspection due @ 1555.4 hrs tach.... (4) Replaced damaged oil drain back tubes, cylinders 2 & 4, with p/n's 68760 and 62761. Verified that new tubes clear of baffling and baffle spring, wrapped tubes in spiral wrap.... (5) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next due @ 1411.6 hrs tach. Post inspection ground engine run leak and ops check - good, no leaks or faults noted. - END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (Annual Insp) and has been determined to be in airworthy condition.

DATE: 25 February, 2021

SIGNED:

Jim Allen, IA: 559294160

Work Order: 2784-02-2021

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 2871-03-2021

Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 16 March, 2021  
A/C TSN: 1329.4  
ENG TT: 1329.4  
TSMOH:  
TACH: 1329.4

## Engine Entries

(1) C/W Lycoming MSB-612 Replace Oil Level Gage by removing the current oil dipstick and replacing it with the correct p/n'ed oil dipstick LW-14760 using a new o-ring p/n 74068. Ops check good. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 16 March, 2021

SIGNED:

Chuck Harvie, A&P: 3517275

Work Order: 2871-03-2021

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MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



N D

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 2920-04-2021

### Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 09 April, 2021  
A/C TSN: 1365.5  
ENG TT: 1365.5  
TSMOH:  
TACH: 1365.5

RED FOR COMPLETE

### Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new CH48110-1 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. OPS and leak check good. No defects noted at this time. All work and inspections completed IAW an in house checklist .... (3) C/W AD2015-19-07 Fuel Injection Line Inspection, no leaks or defects found, next due: 1465.5 hrs. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 09 April, 2021

SIGNED:

Work Order: 2920-04-2021

Bill Mercer, A&P: 3804885

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3060-06-2021



### Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 15 JUNE, 2021  
A/C TSN: 1421.8  
ENG TT: 1421.8  
TSMOH:  
TACH: 1421.8

### Engine Entries

(2) Completed 100 Hour Inspection. Compression results: #1-71/80, #2-77/80, #3-74/80, #4-75/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, p/n CH48110-1, examined old element - no defects noted. Serviced engine with 8 qts of Aeroshell 15W50. Cleaned, inspected, gapped, tested spark plugs. Rotated and re-installed. Verified magneto timing. Engine run and leak check, no leaks or faults found.... (4) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next Due: Tach: 1521.8 - END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in airworthy condition

DATE: 15 June, 2021

SIGNED:

Work Order: 3060-06-2021

Don Ganschow, A&P: 3830225

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3229-09-2021

### Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 09 September, 2021  
A/C TSN: 1471.4  
ENG TT: 1471.4  
TSMOH:  
TACH: 1471.4

### Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new CH48110-1 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. OPS and found, next due: 1571.4 hrs. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 09 September, 2021

SIGNED:

Work Order: 3229-09-2021

Don Ganschow, A&P: 3830225

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3446-12-2021



### Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 01 January, 2022  
A/C TSN: 1514.2  
ENG TT: 1514.2  
TSMOH:  
TACH: 1514.2

### Engine Entries

(2) Completed ANNUAL Inspection - ENGINE. Compression results: #1-68/80, #2-77/80, #3-70/80, #4-75/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, p/n CH48110-1, examined old element - no contamination found. Serviced engine with 8 qts of Aeroshell 15W50. Removed all sparkplugs, inspected, cleaned, set gap, and tested spark plugs. Rotated and re-installed using new gaskets. Verified magneto timing.... (4) Cleaned and re-oiled engine induction air filter.... (5) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no fuel leaks or faults found, next due @ 1614.2 hrs tach. Post inspection ground engine run, leak check and ops check, no leaks or faults found. - END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (Annual Insp) and has been determined to be in airworthy condition.

DATE: 01 January, 2022

SIGNED:

Work Order: 3446-12-2021

Jim Allen, IA: 659294160

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CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM  
PREVIOUS SUMMARY

TOTAL  
SINCE MFG.



ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3624-03-2022



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 26 March, 2022  
A/C TSN: 1567.4  
ENG TT: 1567.4  
TSMOH:  
TACH: 1567.4

7

### Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, took oil sample for analysis by Blackstone. Removed and inspected oil filter element - no defects noted. Installed new CH48110-1 oil filter and safetied. Serviced engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled with new gaskets.... (3) Replaced right magneto with new model 4370. Performed magneto 500 hr inspection on left mag, replaced points M3637 and brushes K3215, and M3827 rotor gear. For both the left and right magnetos the 500 hr magneto inspection will be due @ 2067.4 hrs. Magnetos installed using new gaskets p/n LW12681.... (4) Pilot reported lag in throttle response - removed exhaust to gain access, repositioned and secured throttle cable mounting, problem corrected. reinstalled exhaust with new gaskets p/n 77611.... (5) C/W AD2015-19-07 Fuel Injection Line Inspection, no fuel leaks or defects found, next due @ 1667.4 hrs. Performed engine ground run and leak check - operational check and leak check good. No defects noted at this time. All work and inspections completed IAW an in house checklist. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 26 March, 2022

SIGNED:

Jim Allen, A&P: 559294160

Work Order: 3624-03-2022

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LICENCE  
NUMBER

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3705-05-2022



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 13 May, 2022  
A/C TSN: 1630.4  
ENG TT: 1630.4  
TSMOH:  
TACH: 1630.4

### Engine Entries

(2) Completed 100 Hour Inspection. Compression results: #1-75/80, #2-77/80, #3-76/80, #4-77/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, Tempest p/n AA48110-2, examined old element - no defects noted. Serviced engine with 8 qts of Aeroshell 15W50. Cleaned, inspected, gapped, tested spark plugs. Rotated and re-installed. Verified magneto timing. Engine run and leak check, no leaks or faults found.... (4) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next Due: Tach: 1730.4 - END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in airworthy condition

DATE: 13 May, 2022

SIGNED:

John Reed, A&P: 2766865

Work Order: 3705-05-2022

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3772-06-2022



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 10 June, 2022  
A/C TSN: 1678.6  
ENG TT: 1678.6  
TSMOH:  
TACH: 1678.6

### Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new Tempest AA48110-2 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. Ops and leak check good. No defects noted at this time. All work and inspections completed IAW an in house checklist.... (3) C/W AD2015-19-07 Fuel Injection Line Inspection, no leaks or defects found, next due: 1778.0 hrs.... (4) Replaced four worn spark plugs with new Champion P/N REM38E. - END.

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 10 June, 2022

SIGNED:

John Reed, A&P: 2766865

Work Order: 3772-06-2022

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3845-07-2022



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 27 July, 2022  
A/C TSN: 1736.1  
ENG TT: 1736.1  
TSMOH:  
TACH: 1736.1

### Engine Entries

(2) Completed 100 Hour Inspection. Compression results: #1-77/80, #2-77/80, #3-77/80, #4-77/80. Drained oil, retrieved oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new Tempest p/n: AA48110-2, examined old element - no defects noted. Serviced engine with 8 quarts of Aeroshell 15W50. Cleaned, inspected, gapped, tested spark plugs. Rotated and re-installed. Verified magneto timing.... (4) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next due @ 1836.1 hrs tach.... (5) Replaced two worn spark plugs with new Champion P/N REM38E. - END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in airworthy condition

DATE: 27 July, 2022

SIGNED:

John Reed, A&P: 2766865

Work Order: 3845-07-2022

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# ENGINE SERVICE AND

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 3936-09-2022



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 23 September, 2022  
A/C TSN: 1785.9  
ENG TT: 1785.9  
TSMOH:  
TACH: 1785.9

RED FOR COMPLETE

## Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new CH48110-1 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. OPS and leak check good. No defects noted at this time. All work and inspections completed IAW in house checklist.... (3) C/W AD2015-19-07 Fuel Injection Line Inspection, no leaks or defects found, next due: 1885.9 hrs. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 23 September, 2022

SIGNED:

Bill Mercer, A&P: 3804885

Work Order: 3936-09-2022

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ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 4059-12-2022



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 07 December, 2022  
A/C TSN: 1847  
ENG TT: 1847  
TSMOH:  
TACH: 1847

## Engine Entries

(2) Completed ANNUAL Inspection - ENGINE. - Compression results: #1-76/80, #2-78/80, #3-76/80, #4-78/80. Borescoped cylinders and found them in satisfactory condition. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new, Tempest p/n AA48110-2, examined old element - no defects noted. Serviced engine with 8 qts of Aeroshell 15W50. Cleaned, inspected, gapped, tested spark plugs. Rotated and re-installed. Verified magneto timing. Engine run and leak check, no leaks or faults found.... (4) C/W AD2015-19-07 - Fuel Injection Lines - by pressure check and visual inspection, no faults found, next due @ 1947.0 hrs tach. - END.

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (Annual Insp) and has been determined to be in airworthy condition.

DATE: 07 December, 2022

SIGNED:

John Reed, IA: 2766865

Work Order: 4059-12-2022

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 4174-02-2023



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 24 February, 2023  
A/C TSN: 1890.6  
ENG TT: 1890.6  
TSMOH:  
TACH: 1890.6

## Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new Tempest AA48110-2 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. OPS and leak check good. No defects noted at this time. All work and inspections completed IAW an in house checklist.... (3) C/W AD2015-19-07 Fuel Injection Line Inspection, no leaks or defects found, next due: 1990.6 hrs. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 24 February, 2023

SIGNED:

John Reed, A&P: 2766865

Work Order: 4174-02-2023

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 4388-07-2023



**Advantage Aviation, Inc.**  
1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 03 July, 2023  
A/C TSN: 1955.6  
ENG TT: 1955.6  
TSMOH:  
TACH: 1955.6

## Engine Entries

(2) Completed 100 Hour Inspection. Compression results: #1-75/80, #2-76/80, #3-77/80, #4-78/80. Drained oil, took oil sample for analysis by Blackstone. Removed and replaced the oil filter with a new Tempest filter, p/n AA48110-2, examined old element - no contamination noted. Serviced engine with 8 qts of Aeroshell 15W50. Removed spark plugs, inspected, cleaned, set gap, and tested. Rotated and re-installed using new gaskets, p/n M674.... (4) Checked magneto to engine timing, found out of spec, adjusted left and right mags to 25 degrees BTDC.... (5) C/W AD2015-19-07 - Fuel Injection Lines - by fuel pressure check and visual inspection, no defects or fuel leaks noted, AD next due @ 2055.6 hours. Post inspection ground engine run and leak check, no leaks or faults found. Reinstalled engine cowling. Return to service. - END

I certify that this Engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in airworthy condition

DATE: 03 July, 2023

SIGNED:

John Reed, A&P: 2766865

Work Order: 4388-07-2023

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TOTAL THIS PAGE

TOTAL FROM  
PREVIOUS SUMMARY

TOTAL  
SINCE MFG.



# MAINTENANCE RECORD

8



## ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 • 510 782-6591

## ENGINE ENTRY

LICENCE  
NUMBER

WORK ORDER: 4169 AIRCRAFT: N139PS TACH: 1986.8

DATE: 08/25/2023

MODEL: Lycoming IO-360-M1A S/N: L-31929-51A

Completed 50 hour inspection and servicing referencing Absolute Aero 50 hour checklist. Drained and sampled oil. Removed and replaced oil filter with new (P/N: AA48110-2). Examined old oil filter element, no contaminants found. Serviced engine with 7 quarts of Aeroshell 15W50 oil. Cleaned, gapped and tested spark plugs. Replaced three spark plugs with new (3EA P/N: UREM38E). Rotated and re-installed spark plugs with new gaskets (P/N: M674). Solvent washed engine. Ground ran engine, leak and ops check good. All work completed in accordance with the Diamond DA 40 and Lycoming Maintenance Manuals. -END

This engine is approved for return to service, for only the work performed.

Brandon Thompson A&P 3212565

ENGINE MODEL: Lycoming  
IO-360-M1A  
ENGINE S/N: L-31929-51A  
REG. NO: N139PS  
WORK ORDER: 4512-09-2023



### Advantage Aviation, Inc.

1903 Embarcadero Road  
Palo Alto, CA 94303 USA  
Phone: 650-494-6946 (Hangar)

DATE: 12 September, 2023  
A/C TSN: 1998.2  
ENG TT: 1998.2  
TSMOH:  
TACH: 1998.2

### Engine Entries

(2) Completed a 50 Hour Inspection/Service: Drained oil, retrieved oil sample, removed and inspected filter element - No defects noted. Installed new Tempest AA48110-2 oil filter and safetied. Filled engine with 8 qts. of Aeroshell 15W50 oil. Cleaned, gapped and tested bottom spark plugs, rotated and reinstalled sparkplugs with new gaskets. Performed engine ground run and leak check. OPS and leak check good. No defects noted at this time. All work and inspections completed IAW an in house checklist.... (3) C/W AD2015-19-07 Fuel Injection Line Inspection, no leaks or defects found, next due: 2098.2 hrs. - END

I certify this ENGINE is approved for RETURN TO SERVICE only for the work performed and stated in this maintenance entry.

DATE: 12 September, 2023

SIGNED:

Bill Mercer, A&P: 3804885

Work Order: 4512-09-2023

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Aircraft: N139PS Tach: 2017.6. TSMOH: 0.6 TTIS 2017.6 Date: 01 February 2025  
Model: Lycoming IO-360-M1A S/N: L-31929-51A

### Engine Entry

**Annual Inspection:** Cylinder compression check: #1-76/80, #2-75/80, #3-76/80, #4-77/80. Newly overhauled engine. Still has break-in mineral oil. Checked exhaust system, intake system, flexible and solid hoses, engine controls, baffles, and engine mounts. C/W AD 2015-19-07 fuel injector lines, by inspection. No defects noted. - END

I certify that this engine has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.

Nicholas Dheedene A&P/IA 4083839

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.