



The Standard
ENGINE LOG

ASA-SE-2

| DATE | RECORDING TACH TIME | TODAY'S FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|---------|---------------------------|-------------------|-----------------------------|--|
| 19 2022 | | | | |

3-29-22, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 1333.9, TACH READS 1333.9
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 1333.9

PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL CHANGE AT THIS TIME. REMOVED ENGINE TO FACILITATE OTHER MAINTENANCE. REMOVED TUBULAR ENGINE MOUNT AND REINSTALLED AFTER REPAIR OF BROKEN MEMBER. REINSTALLED ENGINE. SERVICED INDUCTION AIR FILTER. REPLACED ALL SPARK PLUGS. REPLACED SPARK PLUGS. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 78, #2. 76, #3. 76, #4. 68. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED ON 2-23-21 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF 14 CFR PART 43 APPENDIX D AND WAS FOUND TO BE IN CONDITION FOR SAFE OPERATION.

RANDALL CHARLES A&P 2857342

Randall Clark

19/7/22 1370.3 | 1170.3 | oil & shell 100w 6QTR + filter - CH48108-1 . S6

4-1-23, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 1396.7, TACH READS 1396.7
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 1396.7

PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL CHANGE AT THIS TIME. REPLACED #2 CYLINDER SPARK PLUG ADAPTOR. REPLACED ALL SPARK PLUGS. REPLACED IDLE MIXTURE THUMB WHEEL, ROD ENDS AND SPRING ON FUEL INJECTOR SERVO AND ADJUSTED IDLE MIXTURE. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 74, #2. 75, #3. 74, #4. 75. I CERTIFY THIS ENGINE HAS BEEN INSPECTED ON 4-1-23 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF 14 CFR PART 43 APPENDIX D AND WAS FOUND TO BE IN CONDITION FOR SAFE OPERATION. RANDALL CHARLES A&P 2857342

Randall Clark

10/8/23 1473.1 | 1173.1 | oil & shell 100w 6QTR + filter - S6

| | | | | | | |
|----|---------------|------------|--|-------|------------|----|
| DA | Registration: | N360MA | F&E AVIATION MAINTENANCE | Tach: | 1445.6 | IS |
| 19 | Model No. | IO-360-E1F | | TSN: | 1445.6 |) |
| | Serial No. | L-2702851A | | Date: | 02/22/2024 | |

Completed a condition inspection on this engine IAW the scope and detail of Appendix D to FAR part 43. No oil & filter change at this time. Cylinder compressions: #1 78/80 #2 77/80 #3 78/80 #4 76/80. Ground run performed for ops & leak check, ops check normal with no leaks noted at this time. I certify that this engine has been inspected on 02/22/2024 in accordance with the scope and detail of Appendix D to FAR part 43 and was determined to be in a condition for safe operation.

Frank Huggins A&P 3932262 IA

Frank Huggins A&P 3932262 IA

| | | | | | |
|---------|--------|--------|--|-------|------------|
| 8/27/24 | 1476.8 | 1476.8 | oil & shell 100w 6QTR + filter - CH48108-1 | Tach: | 1497.6 |
| | | | | TSN: | 1497.6 |
| | | | | Date: | 01/17/2025 |

Completed a condition inspection on this engine IAW the scope and detail of Appendix D to FAR part 43. No oil & filter change at this time. Cylinder compressions: #1 78/80 #2 77/80 #3 78/80 #4 76/80. Ground run performed for ops & leak check, ops check normal with no leaks noted at this time. I certify that this engine has been inspected on 01/17/2025 in accordance with the scope and detail of Appendix D to FAR part 43 and was determined to be in a condition for safe operation.

Frank Huggins A&P 3932262 IA

Frank Huggins A&P 3932262 IA

| DATE | RECORDING TACH TIME | TODAY'S FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|---------|---------------------------|-------------------|--|--|
| 19 2017 | | | | Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
| 5-3-17 | 1014.3 | 1014.3 | 0714.3 (Shell 100W) 6QT + oil filter. Sample to AVLab. STC | |
| 9-3-17 | 1069.2 | 1069.2 | 0714.3 (Shell 100W) 6QT + oil filter. Sample to AVLab. STC | |

2-19-18, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 1093.4, TACH READS 1093.4
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 1093.4

PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL CHANGE AT THIS TIME. REPLACED ALL SPARK PLUGS. CHECKED SCREW TORQUE ON FUEL PUMP UPPER CHAMBER. REPAIRED FIBERGLASS INDUCTION AIR BOX AND FIT NEW NUT PLATES. FABRICATED AND INSTALLED EXHAUST CLAMP SHIMS ON BOTH TAIL PIPES AT JOINTS. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 76, #2. 76, #3. 76, #4. 76. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED ON 2-19-18 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF APPENDIX D PART 43 AND WAS FOUND TO BE IN A CONDITION FOR SAFE OPERATION. RANDALL CHARLES A&P 2857342

Randall Charles

| | | | |
|---------|--------|--------|---|
| 7/10/18 | 1117.9 | 1117.9 | oil A (shell 100 w) 6QT + oil f. hr. - A. Sample to AVLab STC |
|---------|--------|--------|---|

2-9-19, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 1167.6, TACH READS 1167.6
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 1167.6
PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. CHANGED OIL AND FILTER. SERVICED ENGINE WITH AEROSHELL 50 wt. W100 OIL AND TEMPEST AA48108-2 FILTER. OBTAINED SAMPLE FOR CUSTOMER. REMOVED AND REINSTALLED PROPELLER TO FACILITATE OTHER MAINTENANCE. REMOVED SLUDGE FROM CRANKSHAFT BORE. REPLACED SPARK PLUGS. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 77, #2. 78, #3. 77, #4. 78. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED ON 2-9-19 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF 14 CFR PART 43 APPENDIX D AND WAS FOUND TO BE IN CONDITION FOR SAFE OPERATION. RANDALL CHARLES A&P 2857342

Randall Charles

| DATE | RECORDING TACH TIME | TODAY'S FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|---------|---------------------------|-------------------|-----------------------------|--|
| 19 19 | | | | Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
| 2/10/19 | 1168.0 | | 1168.0 | oil A shell 100 w 6QT + oil f. hr. - A STC |
| 1/23/20 | 1218.9 | | 1218.9 | oil A shell 100 w 6QT + oil f. hr. - A STC |

3-2-20, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 1225.7, TACH READS 1225.7

ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 1225.7
PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL CHANGE AT THIS TIME. REPLACED SPARK PLUGS. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 77, #2. 72, #3. 78, #4. 79. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED ON 3-2-20 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF 14 CFR PART 43 APPENDIX D AND WAS FOUND TO BE IN CONDITION FOR SAFE OPERATION. RANDALL CHARLES A&P 2857342

Randall Charles

2-23-21, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 1275.8, TACH READS 1275.8

ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 1275.8
PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL CHANGE AT THIS TIME. REPLACED ALTERNATOR BELT. REPLACED SPARK PLUGS. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 78, #2. 77, #3. 78, #4. 76. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED ON 2-23-21 IN ACCORDANCE WITH THE SCOPE AND DETAIL OF 14 CFR PART 43 APPENDIX D AND WAS FOUND TO BE IN CONDITION FOR SAFE OPERATION. RANDALL CHARLES A&P 2857342

Randall Charles

| DATE | RECORDING TACH TIME | TODAYS 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.) |
|---------|---------------------------|------------------|-----------------------------|---|
| 18 2015 | | | | 2-12-15, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 795.7, TACH READS 795.7 ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 795.7 PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL CHANGE AT THIS TIME. SET MAGNETO TIMING. REPLACED ALL "O"RINGS IN FUEL GASKOLATOR. PERFORMED COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 79, #2. 76, #3. 79, #4. 77. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR CONDITION INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. RANDALL CHARLES A&P 2857342 |

Randall Charles

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|---------|-------|-------|--|---|
| 9.23.15 | 831.9 | 831.9 | | oil and filter changed. 6 qt w/100 replaced. oil sample sent to AvLab. <i>SC</i> |
|---------|-------|-------|--|---|

1-21-16, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 848.4, TACH READS 848.4
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 848.4
PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO
OIL CHANGE AT THIS TIME. RETORQUED LOOSE BOLTS ON FUEL PUMP LOWER PLATE. PERFORMED
COMPRESSION CHECK OVER 80 PSI, FIGURES AS FOLLOWS: #1. 78, #2. 78, #3. 76, #4. 79. I CERTIFY THIS
ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS FOUND TO BE IN
AIRWORTHY CONDITION. RANDALL CHARLES A&P 2857342

Randall Charles

| DATE | RECORDING TACH TIME | TODAYS 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.) |
|------------------|---------------------------|------------------|-----------------------------|---|
| 10 2015 -2017 | | | | 5/28/16 889.7 889.7 oil (w/100 6 qt) + filter replaced. 8 qt sample sent to AvLab. <i>SC</i> ^{more} |
| | | | | 8/18/16 952.7 952.7 oil pressure sensor replaced. 3 qt oil added. <i>SC</i> |
| | | | | 9/2/16 962.3 962.3 oil change (w/100 CCL) + filter replaced. Sample sent to AvLab. ^{Rem 386 CHAMPION} Spark plugs replaced at same time. <i>SC</i> |

2-14-17, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 983.8, TACH READS 983.8
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 983.8
PERFORMED PREVENTIVE MAINTENANCE IN CONJUNCTION WITH A 100 HOUR CONDITION INSPECTION. NO OIL
CHANGE AT THIS TIME. REPLACED NOZZLE NUT ON #4 CYLINDER FUEL INJECTION LINE. TRANSPOSED #s 1 AND 3
FUEL INJECTION NOZZLES FOR EVALUATION OF CYLINDER CHT. PERFORMED COMPRESSION CHECK OVER 80 PSI,
FIGURES AS FOLLOWS: #1. 78, #2. 76, #3. 76, #4. 76. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE
WITH A 100 HOUR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. RANDALL CHARLES A&P 2857342.

Randall Charles

3-1-17, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 986.0, TACH READS 986.0
ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 986.0
REMOVED EXISTING MAGNETOS AND INSTALLED NEW P-MAGS AND NECESSARY COMPONENTS ON
AIRCRAFT. INSTALLED AUTOMOTIVE SPARK PLUGS IN PLACE OF STANDARD ONES. RAN ENGINE NO
DEFECTS NOTED. RANDALL CHARLES A&P 2857342

Randall Charles

Registered Owner Record

Name _____ Address _____
 City _____ State _____ From _____ To _____

Name _____ Address _____
 City _____ State _____ From _____ To _____

7-23-13
 MODEL IO-360-B1F
 S/N: L-27028-51A
 TACH READING
 TTE.
 TSMO:

Disassembled engine, cleaned, inspected, non-destructive tested work order N0847-13-06, repaired, assembled and test run in accordance with Lycoming Overhaul Manual 60294-7-14 and service bulletins 475 and 533B. Lifter bodies repaired work orders 218891 and 219883. Cylinders were inspected and leak checked and were found in good condition. Crankshaft part number 13B27120, serial number V31816. All new seals, gaskets, bearings, connecting rod bolts and nuts. Reinstall starter 149-12LS, sn F2L300354, fuel flow divider pn 2524232-2, sn 0119532, fuel servo RSA-5AD1, pn 2524147-13, sn 70104502 and fuel pump sn 154799701. New Stick magneto's right 4370, sn 13051525, left 4373, sn 13061455. AD's were checked for compliance, see AD sheet. Engine completed a successful test run. THIS ENGINE IS FOR EXPERIMENTAL USE ONLY. Further details of this engine repair may be found at this facility under work order E4953-13-06.

James Volkel

James Volkel

Page 1 of 1

AIRCRAFT ENGINE SPECIALISTS, LLC
 2330 SOUTH AIRPORT BOULEVARD, SUITE #5
 CHANDLER, ARIZONA 85286
 (480) 516-0390 CRS # ZF7R728Y

| Parts Used on WO# E4953-13-06 | | | | | | |
|-------------------------------|-------------|------------------------|---|-------------|---------|------|
| 1 | 4370 | MAGNETO | 1 | STD-1221 | RING | 4 |
| 1 | 4373 | MAGNETO | 1 | STD-2168 | NUT | 8 |
| 1 | 13S19646 | GEAR CRANKSHAFT | 1 | STD-2231 | RING | 8 |
| 1 | ES48108-1 | FILTER, OIL | 2 | SL13884A | BEARING | 8 |
| 1 | MS29512-06 | O-RING | 3 | MS51095-333 | BOLT | 8 |
| 1 | SL75072 | GEAR & BUSH ASSY (360) | 4 | SL16711A | BEARING | 8 |
| 1 | SL75441-1 | GASKET SET | 4 | STD-1339 | PLUG | 10 |
| 1 | SL-STD-2213 | SCREW | 4 | STD-1821 | HOSE | 1102 |

-END-

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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|---------------------------|---------------------------|-------------------|-----------------------------|--|
| 19 _____ <i>9/6/13</i> | | | 727.5 | <i>RE-INSTALLED ENGINE ON LANCAIR 360MKII, S/N 422, AFTER PROOF STRIKE INSPECTION = REPAIR. GROUND RUNS CRIS GOOD. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW THE SCOPE = DETAIL OF FAR 43 APPENDIX D, (100 HRS), AND IS IN A CONDITION FOR SAFE OPERATION AT THIS TIME.</i> |

4-11-14, N360MA, LANCAIR 360, S/N 422, TOTAL TIME 753.5, TACH READS 753.5

ENGINE: LYCOMING IO-360-E1F, S/N L-2702851A, TSN 753.5

REMOVED AND REINSTALLED EXHAUST SYSTEM USING NEW GASKETS AFTER REPAIR BY
 CUSTOM AIRCRAFT PARTS OF EL CAJON, CA. RANDALL CHARLES A&P 2857342

Randall Charles

| | | | |
|---------|-------|-------|--|
| 5/25/14 | 764.1 | 764.1 | Right (psgr) main tire changed. |
| 6/29/14 | 781.0 | 781.0 | Oil + filter changed - 6 qt 100w replaced. oil sent to AVLab. |

Engine Record General Information

LYCOMING 10-360-B1F S/N L-27028-51A

AIRCRAFT
Manufacturer LANCAIR
AIRCRAFT Serial 422

AIRCRAFT
Model 360 MKII
Type Certificate: N/A EXPERIMENTAL

This engine is currently installed in aircraft: SEE ABOVE

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

LOGBOOK STARTED 9/6/13