

N34LC

Engine Maintenance Records

The Power of Experience

PENN VAN AERO

The subject aircraft was involved in an incident / accident on **11/6/2025** rendering it a Constructive Total Loss as not repairable within its insured value. For further details refer to insurance claim: **3880241855US**.

Signed: ***Underwriters Salvage Company***

Date: **1/13/2026**

AIG Aerospace Adjustment Services Inc
3500 Lenox Road, Suite 1100
Atlanta, GA 30326

Darcy Aviation · 1 Wallingford Rd · Danbury, CT 06811 · 2039481198

N34LC
HOBBS: 3311.8

Lycoming, O-360-A4M, S/N: L-32885-36A
TACH: 5269.9 TTSN: 5531.6

October 24, 2025
SMOH: 1292.6

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5531.6

1. 100 HOUR INSPECTION OF ENGINE. Inspection performed IAW Cessna 172N Service Manual Checklist and scope and detail of FAR-43 Appendix D. ADs checked up to current biweekly 2025-21. I certify this engine to be in airworthy condition.
2. COMPRESSION #1: 70 #2: 74 #3: 76 #4: 75.
3. SPARK PLUG SERVICE Spark plugs cleaned, inspected, gapped, new gaskets installed. Installed (8) P/N M-674 - Spark Plug Gasket.
4. OIL SERVICE Drained oil and removed filter. Cut open spin-on for filter inspection, no contaminants noted. Oil sent for analysis. Installed P/N OIL BIB - Oil Filter Bib, Installed P/N AA48110-2 - Tempest Oil Filter, Installed (8) P/N OIL BARREL - Phillips Victory 20W-50.
5. AD COMPLIANCE AD 04-10-14 Crankshaft Bolt. Not due till Sudden Stop or Prop Strike.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WD-143.

David Riney A&P 4445472

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person
				Balance Forward
Totals - Carry Forward				



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HOBBS: 3146.1

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5144.6

TTSN: 5406.3

August 05, 2025

SMOH: 1167.3

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5406.3

OIL & FILTER CHANGE Drained oil, removed filter. Switched from break-in regime to Victory 20W50. Installed P/N AA48110-2 - Tempest Oil Filter, Installed (7) P/N OIL BARREL - Phillips Victory 20W-50.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_104.

David Riney A&P 4445472



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N34LC

HOBBS: 3193.6

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5180.3

TTSN: 5442.0

August 20, 2025

SMOH: 1203.0

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5442.0

1. 100 HOUR INSPECTION OF ENGINE Engine inspected IAW Cessna 172N Service Manual check-list, and scope and detail of FAR-43 Appendix D. ADs checked to current bi-weekly 2025-16. I certify this engine be in an airworthy condition. Installed P/N STD-1925 - Lycoming Rocker Cover Screw .250-20 x 63 Lg. Pan Hd.
2. COMPRESSION #1:72 #2:73 #3:72(New Cylinder #3) #4:74.
3. OIL & FILTER SERVICE Drained oil and removed filter. Check for contaminants negative and sent oil for analysis. Type M oil used for break-in period of Cylinder #3. Installed (8) P/N Phillips 20w50 Type M - Oil, Break in, Installed P/N AA48110-2 - Tempest Oil Filter.
4. SPARK PLUG SERVICE Spark plugs cleaned, inspected, gapped, new gaskets installed. Installed (8) P/N M-674 - Spark Plug Gasket.
5. CARB HEAT LEVER ADJUSTMENT: Adjusted Carb Heat End Point. Fabricated New Carb Heat Arm Lever On Aircraft Airbox. Removed and replaced worn screw-wire clamp with new. Adjusted routing of cabling to prevent wandering carb heat knob. Installed P/N MCS2323-5 - Bolt, Wire Clamp.
6. CYL #3 REPLACEMENT Cylinder #3 failed compression with two readings of 48psi and 59psi. Removed Lycoming O-360-A4M cylinder (s/n: AC1207) from service. Installed a overhauled Superior 0360A4M/A4N Cylinder (Work order PMA3078 under Pine Mountain Aviation, dated 8/18/25 P41508881) with valves, piston and rings fitted. Original Piston Pin reinstalled. Installation done IAW Lycoming Direct Drive Overhaul Manual. Yellow tag added to records. Engine oil switched to Type-M for breakin period of new cylinder. After runup and break-in flight, new compression @80psi for cylinder #3: 72. Installed P/N SL36006W-A1 - Superior O-360-A4M/A4N Cylinder Assembly, Std Steel Bore S/N: 366W-F07-12292.
7. AD COMPLIANCE AD 04-10-14 Crankshaft Bolt. Not due till Sudden Stop or Prop Strike.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_109.

David Riney A&P 4445472

Description of Work Performed

Totals - Carry Forward

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ording

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HOBBS: 3213.3

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5194.7

TTSN: 5456.4

September 10, 2025

SMOH: 1217.4

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5456.4

AIRBOX REPAIR Removed airbox, removed and discarded damaged sheared arm/shaft. Removed and discarded bearings. Cleaned, inspected and repaired airbox box. Installed new parts from kit. Reinstalled Carb. Heat Repair Kit.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_125.

David Riney A&P 4445472



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HOBBS: 3002.4

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5035.6

TTSN: 5297.3

June 12, 2025

SMOH: 1058.3

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5297.3

50 HOUR OIL CHANGE Drained oil and removed filter. Switch breakin Type-M back to Victory 20W50. Oil sample sent for analysis. Installed (7) P/N OIL BARREL - Phillips Victory 20W-50, Installed P/N AA48110-2 - Tempest Oil Filter.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_80.

David Riney A&P 4445472



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HOBBS: 3060.7

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5079.4

TTSN: 5341.1

July 17, 2025

SMOH: 1102.1

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5341.1

1. 100 HOUR INSPECTION OF ENGINE Engine inspected IAW Cessna 172N Service Manual checklist and scope and detail of FAR-43 Appendix D. ADs checked to current bi-weekly 2025-14. I certify this engine to be in an airworthy condition. Installed P/N AA48110-2 - Tempest Oil Filter.
2. COMPRESSION @80PSI - #1:70 #2:72 (New Cylinder) #3:72 #4:73.
3. OIL & FILTER SERVICE Drained oil and removed filter. Check for contaminants negative and sent oil for analysis. Engine oil switched back to Type-M oil for breakin period of new cylinder. Installed (7) P/N Phillips 20w50 Type M - Oil, Break in.
4. SPARK PLUG SERVICE Spark plugs cleaned, serviced and gapped. New gaskets installed.
5. CYL #2 REPLACEMENT Cylinder #2 failed compression. Removed Lycoming O-360-A4N cylinder (s/n: AC1210) and sent for overhaul. Cylinder is out of service limits and rejected for overhaul. Installed a low-time overhauled Superior Stud Assembly Cylinder (Work order 3072 under Pine Mountain Aviation, dated 7/16/25 P41508881) with valves, piston and rings fitted. Original Piston Pin reinstalled. Installation done IAW Lycoming Direct Drive Overhaul Manual. Yellow tag added to records. Engine oil switched to Type-M for breakin period of new cylinder. After runup, new compression @80psi for cylinder #2: 72. Installed P/N SL36006W-A1 - Superior Stud Assembly - For O-360-A4M S/N: 366W-D17-200088.
6. BAFFLE REPAIR Rivet heads sheared off cylinder #1 baffle seal. Replaced with new rivets. Installed (4) P/N F43F - Pop Rivet 1/8" SSD43-S SS Rivet.
7. AD COMPLIANCE AD 04-10-14 Crankshaft Bolt. Not due till Sudden Stop or Prop Strike.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_92.

David Riney A&P 4445472



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HOBBS: 3106.2

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5113.4

TTSN: 5375.1

July 28, 2025

SMOH: 1136.1

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5375.1

25 HOUR BREAKIN OIL CHANGE Drained oil, removed filter. Sent oil sample for analysis. Installed P/N AA48110-2 - Tempest Oil Filter, Installed (7) P/N Phillips 20w50 Type M - Oil, Break in.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_100.

David Riney A&P 4445472

Totals - Carry Forward

Date



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HOBBS: 2928.1

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 4979.5

TTSN: 5241.2

May 08, 2025

SMOH: 1002.2

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5241.2

1. ANNUAL INSPECTION OF ENGINE Engine inspected IAW Cessna 172N Service Manual checklist and scope and detail of FAR-43 Appendix D. ADs checked to current bi-weekly 2025-09. I certify this airframe to be in an airworthy condition.
2. COMPRESSION #1|72 (NEW CYLINDER) #2|71 #3|73 #4|75.
3. SPARK PLUG SERVICE Spark plugs cleaned, inspected, gapped, new gaskets installed. Installed (8) P/N M-674 - Spark Plug Gasket.
4. OIL & FILTER SERVICE Drained oil and removed filter. Check for contaminants negative. Oil sample sent for analysis. Installed (8) P/N Phillips 20w50 Type M - Oil, Break in, Installed P/N AA48110-2 - Tempest Oil Filter.
5. MUFFLER SERVICE Removed, disassembled, cleaned, and inspected Power Flow System IAW Power Flow ICA, Report Number: PFS-0017-00 Rev E, Dated 05/21/07. No defects noted. Replaced two missing screws and missing tinnerman. Cleaned no-blow exhaust gaskets. Installed (2) P/N T8X8 - Screw, Truss, Stainless, Installed P/N A1758-10Z-1D - Tinnerman Nut - 54783-10.
6. CYLINDER #1 REPLACEMENT Removed cylinder for inspection by Pine Mountain Aviation for low compression/exhaust valve. Found crack at lower spark plug hole. Cylinder rejected. Installed new overhauled cylinder into Cylinder #1. Yellow tag (Work Order No. 3061, dated 5/5/25) entered into records. Installed IAW with Lycoming O-360-A Overhaul Manual (60298-3). Break-In Oil used. New compression after runup now #1: 72. New Cyl #1 Primer line, 3/16th OD aluminum, fabricated and installed due to damaged cylinder connection. Installed P/N O-360-A Cylinder - Lycoming Cylinder Assembly, Std. Nitride Bore (OVERHAULED) S/N: PMA3061, Installed P/N 08-11568 - SL12272 Shroud Tube Lockplate.
7. ROCKER COVER GASKET REPLACEMENT Cylinder #2 Cork Gasket leaking oil. Removed all cork gaskets from all cylinders, and replaced with new silicone gaskets. Installed (3) P/N SLR75906 - Gasket - Rocker Covers, Installed P/N SLR75906 - Gasket - Rocker Covers.
8. AD COMPLIANCE AD 04-10-14 Crankshaft Bolt. Not due till Sudden Stop or Prop Strike.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_45.

Chris Carman IA 2858236

David Riney A&P 4445472

wo: WO_63

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N34LC

HOBBS: 2942.2

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 4990.3

TTSN: 5252.0

May 12, 2025

SMOH: 1013.0

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5252.0

10 HOUR BREAKIN OIL CHANGE Installed P/N AA48110-2 - Tempest Oil Filter, Installed (2) P/N Phillips 20w50 Type M - Oil, Break in, Installed (5) P/N Phillips 20w50 Type M - Oil, Break in.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_63.

David Riney A&P 4445472

wo: WO_69

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N34LC

HOBBS: 2968.6

Lycoming, O-360-A4M, S/N: L-32885-36A

TACH: 5010.8

TTSN: 5272.5

May 28, 2025

SMOH: 1033.5

O-360-A4M, Lycoming Engine PN: O-360-A4M, SN: L-32885-36A, TT TACH: 5272.5

25 HOUR BREAKIN OIL CHANGE Drained oil, removed filter. Sent oil sample for analysis. Installed P/N AA48110-2 - Tempest Oil Filter, Installed (7) P/N Phillips 20w50 Type M - Oil, Break in.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_69.

David Riney A&P 4445472

Description of Work Performed
Certificate Number & Signature of Person Performing Work

Page:

Balance Forward

wo: WO_19

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Darcy Aviation - 1 Wallingford Rd - Danbury, CT 06811 - 2039481198

N34LC **Lycoming, O-360-A4G, S/N: L-32885-36A** **November 19, 2024**
HOBBS: 2796.8 TACH: 4881.7 TTSN: 4881.7 SMOH: 904.4

O-360-A4G, O-360-A4G PN: O-360-A4G, SN: L-32885-36A, TT TACH: 4881.7

1. 100 HOUR INSPECTION OF ENGINE Engine inspected IAW Cessna 172N Service Manual check-list, and scope and detail of FAR-43 Appendix D. ADs checked to current bi-weekly 2024-23. I certify this engine be in an airworthy condition.
2. OIL SERVICE Oil drained and filter removed. Filter inspected for contaminants. Oil sample sent for analysis. Installed (7) P/N Phillips Victory 20w50 - Phillips 20w50 oil, Installed P/N A38110-2 - Tempest Oil Filter.
3. COMPRESSION TEST #1/60 #2/68 #3/73 #4/72.
4. MUFFLER INSPECTION Power Flow Muffler inspected IAW PFS-13202, PFS-13203. PFS-0017-00 Rev E (Dated 05/21/07) Installed P/N AN960-516 - Washer, Installed P/N MS35333-41 - Lock Washer, Installed P/N sl-std-1410 - Superior Exhaust Nut StD1410.
5. EGT PROBE DAMAGED Clamp broken on one-piece EGT Probe attached to Cylinder 4 Exhaust. Removed and replaced. Installed P/N 86255 - Alcor By Tempest EGT / TIT Type K Thermocouple Clamp 3-3/8 Max.
6. FUEL LEAK AT CYL #1 INTAKE GASKET Removed from all cylinders: intake tubes and gaskets. Cleaned and reinstalled all cylinder intakes with new gaskets. Installed (4) P/N 71973 - Lycoming Intake Gasket.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_19.

David Riney A&P 4445472

wo: WO_43

Darcy Aviation - 1 Wallingford Rd - Danbury, CT 06811 - 2039481198



Engine - page 1 of 1

N34LC
HOBBS: 4933.1

Lycoming, O-360-A4G, S/N: L-32885-36A
TACH: 2865.2 TTSN: 2865.2

March 07, 2025


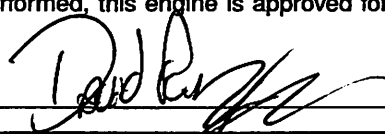

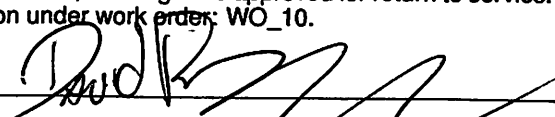
O-360-A4G, O-360-A4G PN: O-360-A4G, SN: L-32885-36A, TT TACH: 2865.2


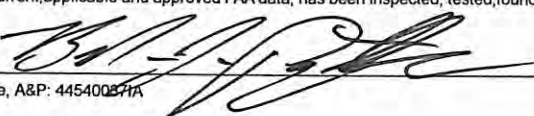


1. 50 HOUR OIL CHANGE Drained oil and removed filter. Installed P/N AA48110-2 - Tempest Oil Filter, Installed (7) P/N OIL BARREL - Phillips Victory 20W-50.
2. MISSING EXHAUST NUT Replaced missing washer, lockwasher and nut on #2 Cylinder Exhaust. Installed P/N AN960-516 - Washer, Installed P/N MS35333-41 - Lock Washer, Installed P/N AN315-SR - NUT - Full Hex.



With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_43.

David Riney A&P 4445472

Totals - Carry Forward

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
wo: WO_1				Engine - page 1 of 1	
 Darcy Aviation · 1 Wallingford Rd · Danbury, CT 06811 · 2032975047					
N34LC TACH: 4782.0 Lycoming, S/N: L-32885-36A TTSN: 4782.0 SMOH: 804.7 September 27, 2024 O-360-A4G PN: UNDEFINED, SN: L-32885-36A, TT TACH: 4782.0 1. LEFT AND RIGHT MAGNETO FIRING AT 27 DEGREES. Retimed both Magnetos to 25degrees. 2. Compression at 80psi: #1 66 #2 78 # 70 #79. 3. Magneto both firing at 27 degrees. Retimed to 25 degree BTDC. 4. Oil & Filter Service: 7 qts Phillips Victory Oil and new AA48110-2 Filter. 5. 100 HOUR INSPECTION OF ENGINE. Inspection performed IAW Cessna 172N Service Manual Checklist and scope and detail of FAR-43 Appendix D. ADs checked up to current biweekly 2024-19. I certify this engine to be in airworthy condition. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_1. David Riney A&P 4445472 					
wo: WO_10				Engine - page 1 of 1	
 Darcy Aviation · 1 Wallingford Rd · Danbury, CT 06811 · 2039481198					
N34LC TACH: 4825.3 Lycoming, O-360-A4G, S/N: L-32885-36A TTSN: 4825.3 SMOH: 848.0 October 17, 2024 O-360-A4G, O-360-A4G PN: O-360-A4G, SN: L-32885-36A, TT TACH: 4825.3 OIL & FILTER SERVICE: Drained oil, removed filter. Serviced with 7 qts Phillips Victory Oil and new AA48110-2 Filter. With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Darcy Aviation under work order: WO_10. David Riney A&P 4445472 					
				Totals - Carry Forward	

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
<div>ENGINE MODEL: O360-A4M ENGINE S/N: L-32885-36A REG. NO: N34LC WORK ORDER: 10156-07-2024</div> <div>US Flight Aircraft Maintenance CIRRUS AUTHORIZED SERVICE CENTER 1 WALLINGFORD RD HANGAR 5 & 6 Danbury, CT 06810 USA Phone: 914-227-6440</div> <div>DATE: 25 July, 2024 A/C TSN: 4680.9 ENG TT: 4680.9 TSMOH: 703.6 TACH: 4680.9</div>					
Engine Entries					
2	COMPLY WITH 100HR INSPECTION ON ENGINE... Engine inspected using Cessna 172N Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up.Compression Check #1 64/80 #2 70/80 #3 78/80 #4 79/80, Secured new AA48111 filter and serviced engine with 6 Qts Phillips Victory 100AW oil. I certify this ENGINE has been inspected in accordance with an 100HR inspection checklist and has been determined to be in airworthy condition.				
8	LEFT MAGNETO FIRING AT 27 DEG BTDC, SPEC IS 25... Adjusted magneto timing so both mags fire at 25 degrees BTDC.				
Technicians Who Worked On The Items Listed Above: Maximilian Fitzgerald					
The work performed has been accomplished with reference to current,applicable and approved FAA data, has been inspected, tested,found to be in airworthy condition and has been approved for return to service.					
DATE: 25 July, 2024		SIGNED: 		Work Order: 10156-07-2024 Printed by EBis 3 (datcomedia.com)	
Bernard Paquette, A&P: 445400871A					
<div>ENGINE MODEL: O360-A4M ENGINE S/N: L-32885-36A REG. NO: N34LC WORK ORDER: 10204-08-2024</div> <div>US Flight Aircraft Maintenance CIRRUS AUTHORIZED SERVICE CENTER 1 WALLINGFORD RD HANGAR 5 & 6 Danbury, CT 06810 USA Phone: 914-227-6440</div> <div>DATE: 19 August, 2024 A/C TSN: 4726.8 ENG TT: 4726.8 TSMOH: 749.5 TACH: 4726.8</div>					
Engine Entries					
1	COMPLY WITH 50HR SERVICE... 50 Hr Inspection Airframe,Researched aircraft records for applicable Airworthiness Directives through current bi-weekly 2024-14. Performed engine 50 Hr Inspection. Serviced brake fluid reservoirs. Serviced all tires to spec pressures. Engine warmed to operating temperatures, drained oil, Take oil sample for analysis. Removed and cut open filter, inspected filter, no metals noted. Install and Torque new AA48111 filter. Serviced engine with 7 qts.Phillips Victory 100AW oil. Visually inspected, Exhaust system, Engine Accessories, hoses for condition, integrity, routing, leaks. Performed ground run, no leaks noted.				
Technicians Who Worked On The Items Listed Above: Maximilian Fitzgerald, SCOTT SPLETZER					
Maintenance Release					
The aircraft and/or component(s) on N34LC was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this repair station under Work Order No. 10204-08-2024, Dated 19 August, 2024					
DATE: 19 August, 2024		SIGNED: 		Work Order: 10204-08-2024 Printed by EBis 3 (datcomedia.com)	
SCOTT SPLETZER, A&P: 3402681					

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
		ENGINE MODEL: O360-A4M ENGINE S/N: L-32885-36A REG. NO: N34LC WORK ORDER: 10086-04-2024		US Flight Aircraft Maintenance CIRRUS AUTHORIZED SERVICE CENTER 1 WALLINGFORD RD HANGAR 5 & 6 Danbury, CT 06810 USA Phone: 914-227-6440	DATE: 29 April, 2024 A/C TSN: 4582.9 ENG TT: TSMOH: 605.6 TACH: 4582.9
		Engine Entries			
		2 COMPLY WITH ANNUAL INSPECTION ON ENGINE... Engine inspected using Cessna 172N Aircraft 100hr/Annual maintenance manual inspection checklist, Performed satisfactory pre-inspection run up. Drained oil & take oil sample for analysis, Secured new AA48110 filter and serviced engine with 8 Qts Phillips Victory 20/50W oil. Performed cylinder differential compression checks and boroscope inspections no discrepancies noted. Compression results as follows: 1)79/80. 2) 79/80. 3) 79/80. 4)79/80. I certify this ENGINE has been inspected in accordance with an ANNUAL inspection checklist and has been determined to be in airworthy condition.			
		5 ALL SPARK PLUGS WORN OUT... Installed new spark plugs P/N: UREM37BY. Torqued to 35ft/lbs			
		6 ENGINE OIL & FUEL HOSES NO LONGER FLEXIBLE DATED 2004.... Removed worn engine fuel and oil hoses. Installed new fuel hoses P/N 111417-8D-0071 and P/N 111417-8D-0206 Installed new oil lines P/N 111417-8D-0280 and P/N 111417-8D-0346			
		7 POWER FLOW MUFFLER CRACKED @ ATTACHMENT TO COLLECTOR... Removed muffler & clamp from collector. Found muffler cracked with worn attach point. Discard worn muffler. Cleaned mating surface on collector of scale build up. Test fitted new muffler to mark hole for alignment pin. Drill hole for alignment pin on new clamp. Install new Muffler PN#80010 with new clamp PN#7020 & secured with new nuts & cotter pins for safety.			
		8 OIL COOLER DRAIN CAP LEAKING Removed cap & discard. Install new cap AN929-8D & safety			
		9 COMPLY WITH POWER FLOW EXHAUST SYSTEM ICA PFS-13202 & 13203(DOC#PTS-0017-00, REV E.... Removed exhaust assembly, cleaned gasket mating surfaces. Performed all annual inspections as called out in report number PFS-0059-00. Complete system disassembled. Slip joints freed up and cleaned. Reassembled with 2400 degree nickel based anti-seize. System installed on engine using all new locking hardware and new SL77611 gaskets.			
		13 LEFT & RIGHT MAGNETOS DUE FOR 500HR INSPECTION *IGNITION HARNESS ORIGINAL DUE FOR REPLACEMENT... Removed left magneto P/N 4371, S/N 95120204 and right magneto P/N 4370, S/N 97020388. Installed an overhauled magneto P/N 4371, S/N H-Y030047 on the left side with new gaskets P/N SL12681 and P/N 62224. Installed an overhauled magneto P/N 4370, S/N H-Y010428 on the left side with a new gasket P/N SL12681. Both magnetos timed to 25 degrees BTDC I/A/W Lycoming Overhaul Manual. Removed original ignition harness and discarded. Installed a new ignition harness P/N KA14001.			
		Technicians Who Worked On The Items Listed Above: Bernard Paquette, Ludwig Hellstrom, Maximilian Fitzgerald, SCOTT SPLETZER			
		The work performed has been accomplished with reference to current, applicable and approved FAA data, has been inspected, tested, found to be in airworthy condition and has been approved for return to service.			
		DATE: 29 April, 2024	SIGNED: 	Work Order: 10086-04-2024	
		Bernard Paquette, IA: 44540034A		Printed by EBis 3 (datcomedia.com)	
		Totals - Carry Forward			

[illegible]

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
5/1/20		468.3	4475.6	Balance Forward	
				N3-ILC Tach: 4475.6 Tsmoh: 468.3 5/1/2020 Propeller TSN: 36.4	
				100 Hour Inspection completed i/a/w FAR 43, Appendix D and all applicable STC data. Drained oil & replaced filter. Added 8 qts Phillips 20/50W. Old filter inspected for contaminants. None noted. Cleaned and regapped spark plugs and checked magneto timing. Inspected mufflers and exhaust system i/a/w Power Flow ICA. No discrepancies noted. Serviced air filter element. Installed new Aero Classics oil coolers/n 4654771. Dressed & repainted prop blades & inspected spinner & bulkheads. Checked controls for travel & security. Ads checked thru issue 2020-07. I certify that this Engine has been inspected i/a/w an Annual Inspection & was determined to be in an Airworthy condition.	
				John A. Bishop A/P 1885250 1A	
3/22/21		486.3	4493.6	N34LC Tach: 4493.6 Tsmoh: 486.3 3/22/2021 Propeller TSN: 54.4	
				100 Hour Inspection completed i/a/w Far 43, Appendix D and all applicable STC data. Drained oil & and replaced filter. Filter cut open for inspection. No contaminants noted. Added 8 qts Phillips 20/50W. Cleaned and regapped spark plugs as required & checked magneto timing. Cleaned air filter element. Inspected muffler and exhaust system. Dressed & repainted propeller blades & inspected spinner & bulkheads. Checked controls for travel and security. Ads checked thru issue 2021-05. I certify that this Engine has been inspected i/a/w a 100 Hour Inspection & was determined to be in an Airworthy condition.	
				Hilary M. Carlson A/P 3365016	

COMPRESSION CHECK

1	2	3	4	5	6
72	72	74	73		
80	80	80	80	80	80

Northampton Aeronautics, Inc
160 Old Ferry Road
Northampton, MA 01060

COMPRESSION CHECK

1	2	3	4	5	6
75	72	72	74		
80	80	80	80	80	80

Hilary M. Carlson

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
				ENGINE LOGBOOK ENTRY	
				May 5, 2019	
				LYCOMING Model: O-360-A4M Serial Number: L-32885-36A	
				Airframe Tach Time: 4,453.0 hours Airframe Total Time Since New: 4,453.0 hours N34LC	
				Engine Time Since Overhaul: 445.7 Hours Propeller Time Since New: 13.8 Hours	
				- Performed compression check: #1: 79/80 #2: 79/80 #3: 79/80 #4: 79/80	
				- Checked magneto/engine timing. Both magnetos found at 25 degrees before top dead center per Lycoming requirements.	
				- Cleaned, gapped, and tested spark plugs. Replaced four REM40E spark plugs and installed on upper side of cylinders.	
				- Carburetor float bowl drained, drain plug reinstalled and safetied as required.	
				- Engine cylinders borescope inspected with no defects observed.	
				Complied with Lycoming Service Bulletin 366C "Carburetor Throttle Body Screw Inspection". No defects observed. SB366C recurring inspection due every 50 hours of operation.	
				Complied with Power Flow Extractor Exhaust Systems instruction for Continued Airworthiness per PFS-13202, PFS-13203 (Document number PTS-0017-00 Revision E). Inspected in accordance with Paragraph 6.0 (a). Found numerous cracks in shroud, and two cracks in exhaust tube to shroud bracket attachment. Exhaust system returned to manufacture (Power Flow Systems, Inc.) and repaired under Work Order: 19-0453/214498 dated 4/29/19. System tested at installation per Paragraph 6.0 (B) of IAC by Power Flow Systems, Inc. Exhaust system reinstalled per Power Flow Systems instructions. Installed missing placard on instrument panel per requirements of Paragraph 6.0 (a) 8 of ICA.	
				Airworthiness Directives checked for compliance thru Biweekly 2019-08. (See current FAA AD list with aircraft records.)	
				AD2017-16-11 Lycoming Engines – found not applicable by engine serial number. Engine serial number not listed in Table 1 of the Lycoming Mandatory Service Bulletin 632B. Determined by records research, parts listed in Table 2 of Lycoming MSB 632B not changed since engine overhaul dated 3/24/2003.	
				AD98-01-06 Precision Airmotive Carburetors found not applicable by carburetor model number.	
				AD94-25-04 Precision Airmotive Carburetors found not applicable by carburetor model number.	
				AD93-19-04 Precision Airmotive Carburetors found not applicable by carburetor model number.	
				- Engine run-up and leak-checked satisfactory.	
				Completed Annual Inspection in accordance with 14 CFR 43, Appendix D.	
				I certify that this aircraft engine has been inspected in accordance with an Annual Inspection and was determined to be in Airworthy Condition.	
				James Daniel Davison IA 4245640	

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed	Page:
				Certificate Number & Signature of Person Performing Work	
3-22-19			44526	Balance Forward	
				Replaced starter motor with Sky-Tec part # 149NL/EC	
				Serial # H-T013016 ops. checked OK. <i>Dennis Kowach</i> 365145	
				Totals - Carry Forward	

Reg: N34LC Tach:4439.2 TSOH: 431.9
Date: 06-15-2018

Page:

Description of Work Performed	Certificate Number & Signature of Person Performing Work

Performed annual inspection this date. Removed engine and performed prop strike inspection Per AD 04-10-14 and SB 475C. Engine was disassembled and inspected. Crankshaft was sent to Rick Romans for inspection and rework W.O #52376 see tag. Tappet bodied and camshaft were replaced with serviceable units yellow tagged by Rick Romans. Engine case halves were recertified by DIVCO WO# 120510. Engine was reassembled in accordance with the lycoming Direct Drive overhaul manual using the new parts listed.

The ECI Titan cylinders were replaced with serviceable lycoming cylinders with 510hrs service time since rework by ACR. See tags. AD 09-26-12 no longer applicable. Cleaned gapped and tested plugs. Degreased engine. Checked magneto timing. Run up. Ops check normal. I certify that this engine was inspected in accordance with an annual inspection and was found to be in an airworthy condition.

Brian G Doyle AP
IA2758463

Reg: N34LC Tach 4439.2 = TTAF
Date: 06-15-2018

Parts list for engine maintenance event this date.

1. 75439-1 GASKET SET
2. AEL75061 ROD BOLTS
3. SL75061 NUTS
4. 13S19646 GEAR
5. STD2246 BOLT
6. SL13884 M06 BEARINGS
7. SL13522 M06 BEARINGS
8. SL11020 M06 BEARINGS

[illegible]

Reg: N34LC Tach:4448.4

Date: 10-17-2018

Changed engine oil and filter, cut open old filter, no metal. Reserviced with Phillips 20-50XC. Run up and leak check good.

Brian G Doyle AP

IA2758463

Totals - Carry Forward

Reg: N34LC Tach:4361.4 TSOH: 384.1
Date: 03-29-2015

Performed annual inspection this date. Compressions 75 75 76 78 ..
Performed boroscope inspection of cylinders. no defects noted.
Cleaned gapped and tested plugs. Degreased engine. Checked
magneto timing. Run up. Ops check normal. I certify that this
engine was inspected in accordance with an annual inspection and
was found to be in an airworthy condition.

Brian G Doyle AP
IA2758463

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Reg: N34LC Tach: TSOH: 376.3
Date: 04-01-2016

Performed annual inspection this date. Compressions 76 75 75 78 ..
Performed boroscope inspection of cylinders. no corrosion noted.
Cleaned gapped and tested plugs. Replaced rocker cover gasket #3.
Degreased engine. Checked magneto timing. Run up. Ops check
normal. I certify that this engine was inspected in accordance with
an annual inspection and was found to be in an airworthy
condition.

Brian G Doyle AP
IA2758463

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Reg: N34LC Tach: TSOH: 407.5
Date: 04-16-2017

Performed annual inspection this date. Compressions 76 78 75 78 ..
Performed boroscope inspection of cylinders. no corrosion noted.
Cleaned gapped and tested plugs. Degreased engine. Checked
magneto timing. Run up. Ops check normal. I certify that this
engine was inspected in accordance with an annual inspection and
was found to be in an airworthy condition.

Brian G Doyle AP
IA2758463

Totals - Carry Forward

Certificate Number	Description of Work Performed	Signature of Person Performing Work
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Performed annual inspection this date. Compressions 75 76 76 78 .
 Changed engine oil and inspected filter, no metal found.
 Reserviced with Aeroshell 15w-50.. Cleaned gapped and tested
 plugs. Degreased engine. Checked magneto timing. Performed
 boroscope inspection of cylinders, no defects. C/W AD 2009-26-12
 cylinder inspection. Performed run up and Ops check normal. I
 certify that this engine was inspected in accordance with an annual
 inspection and was found to be in an airworthy condition.



Brian G Doyle AP
IA2758463

Reg: N34LC Tach: TSOH: 354.4
Date: 03-06-2014

Performed annual inspection this date. Compressions 76 75 75 78 ..
Performed boroscope inspection of cylinders. no corrosion noted.
Cleaned gapped and tested plugs. Removed, resealed and
reinstalled leaking oil dip stick tube. Degreased engine. Checked
magneto timing. Run up. Ops check normal. I certify that this
engine was inspected in accordance with an annual inspection and
was found to be in an airworthy condition.

Brian G Doyle AP
IA2758463

Totals - Carry Forward

Description of Work Performed Certificate Number & Signature of Person Performing Work													Totals - Carry Forward
Page:													
Reg: N34LC Tach:4305.3 TSOH: 328.0 Date: 02-09-2013 Performed annual inspection this date. Compressions 75 76 76 78 . Changed engine oil and inspected filter, no metal found. Reserviced with Aeroshell 15w-50.. Cleaned gapped and tested plugs. Degreased engine. Checked magneto timing. Performed boroscope inspection of cylinders, no defects. C/W AD 2009-26-12 cylinder inspection. Performed run up and Ops check normal. I certify that this engine was inspected in accordance with an annual inspection and was found to be in an airworthy condition. Brian G Doyle AP IA2758463 													
Reg: N34LC Tach: TSOH: 354.4 Date: 03-06-2014 Performed annual inspection this date. Compressions 76 75 75 78 .. Performed boroscope inspection of cylinders. no corrosion noted. Cleaned gapped and tested plugs. Removed, resealed and reinstalled leaking oil dip stick tube. Degreased engine. Checked magneto timing. Run up. Ops check normal. I certify that this engine was inspected in accordance with an annual inspection and was found to be in an airworthy condition. Brian G Doyle AP IA2758463 													
Total Time Since Overhaul													
Tach or Recording Meter Time													
Total Time In Service													
Date													

Lyon Aviation, Inc.

832 Tamarack Road
Pittsfield, MA 01201
(413) 443-6700

Aircraft Maintenance Department

Inspection/Maintenance Record

Aircraft #	N34LC	TTAF:	4267.1	Tach/Hobbs:	4267.1
Eng. Make:	Textron Lycoming			Total Time:	4528.7
Eng. Model:	O-360-A4M			TSOH:	289.8
Eng. S/N:	L-32885-36A			Date:	03/23/2012

1. Performed engine ground run, removed the engine cowls as required for inspection and servicing of the engine.
2. Performed Compression test in accordance with the Avco Lycoming **Service Instruction No. 1191A** as listed 80/ 1. 78 2. 73 3. 78 4. 78.
3. Drained the engine oil and removed the oil filter for inspection, oil filter satisfactory with no contamination noted, installed a new oil filter Champion p/n **CH48110-1** and safety wired. Removed and inspected the oil pick up screen with no contamination noted, cleaned, installed and secured the removed oil pick up screen, serviced the engine with 7 quarts of **Aeroshell 15W/50** oil.
4. Magneto to engine timing checked satisfactory per the engine data.
5. Cleaned, inspected and gapped the spark plugs.
6. Drained carburetor bowl with no contamination noted, installed drain plug and safety wired.
7. All engine controls lubed and checked for proper travels with no defects noted.
8. Complied with the **Power Flow Extractor Exhaust System Instructions for Continued Airworthiness PFS-13202, PFS-13203** REPORT NAME: PFS-0017-00 REVISION: E REPORT DATE: 05/21/07 by performing 6.0 INSPECTION A. 1 thru 8 and B. visual inspection only for any defects as noted, the (Inspections required by the ICA referenced above are due **100 Hours** aircraft operation or **annually** what ever occurs first).
9. Visual inspection of all engine components for condition and security satisfactory with no defects noted.
10. Complied with the **LYCOMING [MANDATORY] SERVICE BULLETIN No. 366A** DATE: October 12, 2007 **SUBJECT:** Carburetor Throttle Body Screw Inspection by performing visual inspection IAW the INSTRUCTIONS FOR COMPLIANCE (part) 1. With no leakage evident. **Repetitive** Inspection due every **100 Hours** of operation or anytime fuel stains are evident.
11. **Airworthiness Directive 2009-26-12 Engine Components, Inc. (ECi)** complied with in accordance with the Compliance section of the referenced AD for Group "A" Cylinder Assemblies (E) with **"No Defects Noted"** at this time. **Repetitive inspection** requirement per the AD paragraph (i) (E) is due every 50 operating hours TIS, **Due Next TACH: 4317.2**
12. **Airworthiness Directive 2012-03-07 Lycoming Engines (formerly Textron Lycoming Division, AVCO Corporation):** Amendment 39-16948 effective date March 27, 2012 is **"NOT APPLICABLE"** to the installed p/n **10-5193** Carburetor per the Part Numbers listed in paragraph (c) Applicability of the AD.
13. Installed removed spark plugs and torque, installed ignition leads and secured. Installed removed engine cowls and performed engine ground run per FAR 43.15(c) (2) and leak check with no defects noted.

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

Signed:



Donald Carlson IA3389591

Date: **MAR 23 2012**

NOTE: It is the responsibility of the aircraft owner / operator to ensure compliance with all applicable Airworthiness Directives and Instructions for Continued Airworthiness in accordance with current *Federal Aviation Regulations*.

Lyon Aviation, Inc.

832 Tamarack Road
Pittsfield, MA 01201
(413) 443-6700

Aircraft Maintenance Department

Inspection/Maintenance Record

Aircraft #	N34LC	TTAF:	4241.8	Tach/Hobbs:	4241.8
Eng. Make:	Textron Lycoming			Total Time:	4503.4
Eng. Model:	0-360-A4M			TSOH:	264.5
Eng. S/N:	L-32885-36A			Date:	03/18/2011

1. Performed engine ground run, removed the engine cowls as required for inspection and servicing of the engine.
2. Performed Compression test in accordance with the Avco Lycoming **Service Instruction No. 1191A** as listed 80/ 1. 73 2. 74 3. 74 4. 77.
3. Drained the engine oil and removed the oil filter for inspection, oil filter satisfactory with no contamination noted, installed a new oil filter Champion p/n **CH48110-1** and safety wired. Removed and inspected the oil pick up screen with no contamination noted, cleaned, installed and secured the removed oil pick up screen, serviced the engine with 7 quarts of **Aeroshell 15W/50** oil.
4. Magneto to engine timing checked satisfactory per the engine data.
5. Cleaned, inspected and gapped the spark plugs.
6. Drained carburetor bowl with no contamination noted, installed drain plug and safety wired.
7. All engine controls lubed and checked for proper travels with no defects noted.
8. Complied with the **Power Flow Extractor Exhaust System Instructions for Continued Airworthiness PFS-13202, PFS-13203** REPORT NAME: PFS-0017-00 REVISION: E REPORT DATE: 05/21/07 by performing 6.0 INSPECTION A. 1 thru 8 and B. visual inspection only for any defects as noted, replaced 1 each clamp p/n **7020** and the muffler insert p/n **PFS-8016** both supplied new from Power Flow. The (Inspections required by the ICA referenced above are due **100 Hours** aircraft operation or **annually** what ever occurs first).
9. Visual inspection of all engine components for condition and security satisfactory with no defects noted.
10. Complied with the **LYCOMING [MANDATORY] SERVICE BULLETIN No. 366A** DATE: October 12, 2007 SUBJECT: Carburetor Throttle Body Screw Inspection by performing visual inspection IAW the INSTRUCTIONS FOR COMPLIANCE (part) 1. With no leakage evident. **Repetitive** Inspection due every **100 Hours** of operation or anytime fuel stains are evident.
11. Installed removed spark plugs and torque, installed ignition leads and secured. Installed removed engine cowls and performed engine ground run per FAR 43.15(c) (2) and leak check with no defects noted.

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

Signed: Donald Carlson
Donald Carlson IA3389591

Date: 3/18/011

NOTE: It is the responsibility of the aircraft owner / operator to ensure compliance with all applicable Airworthiness Directives and Instructions for Continued Airworthiness in accordance with current *Federal Aviation Regulations*.

Lyon Aviation, Inc.

832 Tamarack Road
Pittsfield, MA 01201
(413) 443-6700

Aircraft Maintenance Department

Inspection/Maintenance Record

Aircraft #	N34LC	TTAF:	4208.4	Tach/Hobbs:	1931.7
Eng. Make:	Textron Lycoming			Total Time:	4470.0
Eng. Model:	0-360-A4M			TSOH:	231.1
Eng. S/N:	L-32885-36A			Date:	02/12/2010

Performed engine ground run, removed the engine cowls as required for inspection and servicing of the engine.
Performed Compression test in accordance with the Avco Lycoming **Service Instruction No. 1191A** as listed 80/ 1.
74 2. 72 3. 76 4. 78.

Drained the engine oil and removed the oil filter for inspection, oil filter satisfactory with no contamination noted, installed a new oil filter Champion p/n **CH48110-1** and safety wired. Removed and inspected the oil pick up screen with no contamination noted, cleaned, installed and secured the removed oil pick up screen, serviced the engine with 7 quarts of Aeroshell 15W/50 oil.

Magneto to engine timing checked satisfactory per the engine data plate, replaced spark plugs with new 8 each p/n REM40E. Drained carburetor bowl with no contamination noted, installed drain plug and safety wired. All engine controls lubed and checked for proper travels with no defects noted.

Complied with the **Power Flow Extractor Exhaust System Instructions for Continued Airworthiness PFS-13202, PFS-13203** REPORT NAME: PFS-0017-00 REVISION: E REPORT DATE: 05/21/07 by performing 6.0

INSPECTION A. 1 thru 8 and B. visual inspection only for any defects as listed with none noted. (Inspections required by the ICA referenced above are due **100 Hours** aircraft operation or **annually** what ever occurs first).

Visual inspection of all engine components for condition and security satisfactory with no defects noted. Installed removed spark plugs and rotated, installed and secured ignition leads, tightened all rocker box cover screws.

Complied with the **LYCOMING [MANDATORY] SERVICE BULLETIN No. 366A** DATE: October 12, 2007
SUBJECT: Carburetor Throttle Body Screw Inspection by performing visual inspection IAW the INSTRUCTIONS FOR COMPLIANCE (part) 1. with no leakage evident. Repetitive Inspection due every 100 Hours of operation or anytime fuel stains are evident.

Installed removed spark plugs and torque, installed ignition leads and secured. Installed removed engine cowls and performed engine ground run per FAR 43.15(c) (2) and leak check with no defects noted.

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

Signed:


Donald Carlson IA3389591

Date: FEB 12 2010

NOTE: It is the responsibility of the aircraft owner / operator to ensure compliance with all applicable Airworthiness Directives and Instructions for Continued Airworthiness in accordance with current *Federal Aviation Regulations*.

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work		Page:																								
				<div style="display: flex; justify-content: space-between;"> <div> Lyon Aviation, Inc. Aircraft Maintenance Department </div> <div> 832 Tamarack Road Pittsfield, MA 01201 (413) 443-6700 </div> </div>																										
				<div style="display: flex; justify-content: space-between;"> <div> <table border="1"> <tr> <td>Aircraft #</td> <td>N34LC</td> <td>TAF:</td> <td>4178.3</td> <td>Tach/Hobbs:</td> <td>4178.3</td> </tr> <tr> <td>Eng. Make:</td> <td>Textron Lycoming</td> <td></td> <td></td> <td>Total Time:</td> <td>4440.0</td> </tr> <tr> <td>Eng. Model:</td> <td>O-360-A4M</td> <td></td> <td></td> <td>TSOH:</td> <td>201.0</td> </tr> <tr> <td>Eng. S/N:</td> <td>L-32885-36A</td> <td></td> <td></td> <td>Date:</td> <td>03/13/2009</td> </tr> </table> </div> <div> Inspection/Maintenance Record </div> </div>		Aircraft #	N34LC	TAF:	4178.3	Tach/Hobbs:	4178.3	Eng. Make:	Textron Lycoming			Total Time:	4440.0	Eng. Model:	O-360-A4M			TSOH:	201.0	Eng. S/N:	L-32885-36A			Date:	03/13/2009	
Aircraft #	N34LC	TAF:	4178.3	Tach/Hobbs:	4178.3																									
Eng. Make:	Textron Lycoming			Total Time:	4440.0																									
Eng. Model:	O-360-A4M			TSOH:	201.0																									
Eng. S/N:	L-32885-36A			Date:	03/13/2009																									
				<p>- Airworthiness Directive 2008-19-05 Engine Components, Inc. (ECi): Amendment 39-15672 dated October 20, 2008 was determined to be applicable to the cylinders installed on the referenced engine by review of the overhaul records the following (ECi) cylinder s/n's are installed 5616-12, 5616-15, 5850-27 and 5893-6 these cylinders are all Group "A" Cylinder Assemblies.</p> <p>- Complied with paragraph (i) (B) of the AD with no defects noted, see engine log entry dated 3/13/08 for the compression test results.</p> <p>- Repetitive inspection requirement per the AD paragraph (i) (E) is due every 50 operating hours TIS, Due Next ACTT: 4228.3 / Eng. TT: 4490.0</p>																										
				Signed: <u>Donald Carlson</u> Date: MAR 13 2009 Donald Carlson AP3389591																										
				Totals - Carry Forward																										

Lyon Aviation, Inc.

832 Tamarack Road
Pittsfield, MA 01201
(413) 443-6700

Aircraft Maintenance Department

Inspection/Maintenance Record

Aircraft #	N34LC	TTAF:	4178.3	Tach/Hobbs:	4178.3
Eng. Make:	Textron Lycoming			Total Time:	4440.0
Eng. Model:	O-360-A4M			TSOH:	201.0
Eng. S/N:	L-32885-36A			Date:	03/13/2009

Performed engine ground run, removed the engine cowls as required for inspection and servicing of the engine.
Performed Compression test in accordance with the Avco Lycoming **Service Instruction No. 1191A** as listed 80/ 1. 79 2. 78 3. 76 4. 79.

Drained the engine oil and removed the oil filter for inspection, oil filter satisfactory with no contamination noted, installed a new oil filter Champion p/n **CH48110-1** and safety wired. Removed and inspected the oil pick up screen with no contamination noted, cleaned, installed and secured the removed oil pick up screen, serviced the engine with 7 quarts of Aeroshell 15W/50 oil.

Magneto to engine timing checked satisfactory per the engine data plate, cleaned all plugs, inspected and gapped. Drained carburetor bowl with no contamination noted, installed drain plug and safety wired. All engine controls lubed and checked for proper travels with no defects noted.

Complied with the **Power Flow Extractor Exhaust System Instructions for Continued Airworthiness PFS-13202**, **PFS-13203** REPORT NAME: PFS-0017-00 REVISION: E REPORT DATE: 05/21/07 by performing 6.0

INSPECTION A. 1 thru 8 and B. visual inspection only for any defects as listed with none noted. (Inspections required by the ICA referenced above are due **100 Hours** aircraft operation or **annually** what ever occurs first).

Visual inspection of all engine components for condition and security satisfactory with no defects noted. Installed removed spark plugs and rotated, installed and secured ignition leads, tightened all rocker box cover screws.

Complied with the **LYCOMING [MANDATORY] SERVICE BULLETIN No. 366A** DATE: October 12, 2007
SUBJECT: Carburetor Throttle Body Screw Inspection by performing visual inspection IAW the INSTRUCTIONS FOR COMPLIANCE (part) 1. with no leakage evident. Repetitive Inspection due every 100 Hours of operation or anytime fuel stains are evident.

Replaced the # 1 and # 3 cylinder rocker box cover gaskets with new p/n 75906 with new, tightened # 2 and # 4 cylinder rocker box cover screws. Installed removed spark plugs and torque, installed ignition leads and secured. Installed removed engine cowls and performed engine ground run per FAR 43.15(c) (2) and leak check with no defects noted.

Signed: _____

Nils E. Jacobsson II AP465040861

Date: 3/13/09

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

Signed: _____

Donald Carlson 245433501A

Date: MAR 13 2009

NOTE: It is the responsibility of the aircraft owner / operator to ensure compliance with all applicable Airworthiness Directives and Instructions for Continued Airworthiness in accordance with current *Federal Aviation Regulations*.

Lyon Aviation, Inc.

832 Tamarack Road
Pittsfield, MA 01201
(413) 443-6700

Aircraft Maintenance Department

Inspection/Maintenance Record

Aircraft #	N34LC	TTAF:	4133.6	Tach/Hobbs:	4133.6
Eng. Make:	Textron Lycoming			Total Time:	4395.3
Eng. Model:	0-360-A4M			TSOH:	156.3
Eng. S/N:	L-32885-36A			Date:	02/08/2008

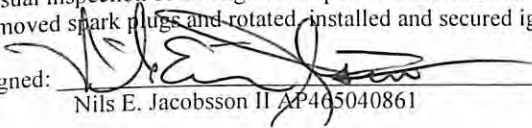
Removed the engine cowls as required for inspection and servicing of the engine. Drained the engine oil and removed the oil filter for inspection, oil filter found to have small amount of aluminum contamination in the filter element, installed a new oil filter Champion p/n **CH48110-1** and safety wired. Removed and inspected the oil pick up screen with no contamination noted, cleaned, installed and secured the removed oil pick up screen.

Signed: 
Justin M. Codwise AP2844534

Serviced the engine with 7 quarts of Aeroshell 15W/50 oil. Removed ignition leads and bottom spark plugs, magneto to engine timing checked satisfactory per the engine data plate, removed top spark plugs, cleaned all plugs, inspected and gapped. Drained carburetor bowl with no contamination noted, installed drain plug and safety wired. All engine controls lubed and checked for proper travels with no defects noted.

Removed the Power Flow Exhaust System for inspection and repair do to cracked heat exchanger end caps, repairs completed by Power Flow Systems, Inc. under Invoice Number: 205890 dated 2/1/2008. Complied with the **Power Flow Extractor Exhaust System Instructions for Continued Airworthiness PFS-13202, PFS-13203** REPORT NAME: PFS-0017-00 REVISION: E REPORT DATE: 05/21/07 by performing 6.0 INSPECTION A. 1 thru 8 and B. items 1 thru 3 only, pressure test performed by Power Flow Systems, Inc. under Invoice Number: 205890 dated 2/1/2008 OK, (see attached) installed removed exhaust system using 4 each new gaskets p/n **77611** and 1 each clamp p/n **7020**. (Inspections required by the ICA referenced above are due **100 Hours** aircraft operation or **annually** what ever occurs first).


Visual inspection of all engine components for condition and security satisfactory with no defects noted. Installed removed spark plugs and rotated, installed and secured ignition leads, tightened all rocker box cover screws.

Signed: 
Nils E. Jacobsson II AP465040861

Performed Compression test in accordance with the Avco Lycoming **Service Instruction No. 1191A** as listed 80/ 1. **76 2. 77 3. 76 4. 75.**

Installed removed engine cowls and performed engine ground run per FAR 43.15(c) (2) and leak check with no defects noted.

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

Signed: 
Donald Carlson AP245433501A

Date: **FEB 08 2008**

NOTE: It is the responsibility of the aircraft owner / operator to ensure compliance with all applicable Airworthiness Directives and Instructions for Continued Airworthiness in accordance with current *Federal Aviation Regulations*.

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:																								
				Balance Forward																									
				<div style="text-align: right;">832 Tamarack Road Pittsfield, MA 01201 (413) 443-6700</div> <div> Lyon Aviation, Inc. Aircraft Maintenance Department </div>																									
				Inspection/Maintenance Record																									
				<table border="1"> <tr> <td>Aircraft #</td> <td>N98DG</td> <td>TTAF:</td> <td>4104.9</td> <td>Tach/Hobbs:</td> <td></td> </tr> <tr> <td>Eng. Make:</td> <td>Textron Lycoming</td> <td></td> <td></td> <td>Total Time:</td> <td>4366.6</td> </tr> <tr> <td>Eng. Model:</td> <td>O-360-A4M</td> <td></td> <td></td> <td>TSOH:</td> <td>127.6</td> </tr> <tr> <td>Eng. S/N:</td> <td>L-32885-36A</td> <td></td> <td></td> <td>Date:</td> <td>03/16/2007</td> </tr> </table>	Aircraft #	N98DG	TTAF:	4104.9	Tach/Hobbs:		Eng. Make:	Textron Lycoming			Total Time:	4366.6	Eng. Model:	O-360-A4M			TSOH:	127.6	Eng. S/N:	L-32885-36A			Date:	03/16/2007	
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Eng. S/N:	L-32885-36A			Date:	03/16/2007																								
				<p>Performed engine ground run for oil drain and compression test, removed engine cowls for access. Performed compression test in accordance with the Avco Lycoming Service Instruction 1191A as listed 80/ 1. 79 2. 76 3. 76 4. 75. Drained the engine oil and removed the oil filter for inspection, oil filter satisfactory with no contamination noted. Installed and safety wired a new Champion oil filter p/n CH48110-1, serviced the engine with 7 quarts of Aeroshell 15W/50 oil. Removed ignition leads and bottom spark plugs, magneto to engine timing checked satisfactory per the engine data plate, removed top spark plugs, cleaned all plugs, inspected and gapped. Drained carburetor bowl with no contamination noted, installed drain plug and safety wired. All engine controls lubed and checked for proper travels with no defects noted. Visual inspection of all engine components for condition and security satisfactory with no defects noted. Installed removed spark plugs and rotated, installed and secured ignition leads. Tightened all rocker box cover screws, installed removed engine cowls and performed engine ground run per FAR 43.15(c) (2) and leak check with no defects noted.</p> <p>I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in an airworthy condition.</p>																									
				Signed: <u>Donald Carlson</u> Date: MAR 16 2007 Donald Carlson AP245433501A																									
				Totals - Carry Forward																									

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
6-2-05	4337.4	098:4	4075.7	Balance Forward	
				DATE <u>6-2-2005</u> TACH <u>4075.7</u> I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED I.A.W. <u>Annual</u> INSPECTION AND HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. W.O.# <u>73963 Solberg Aviation</u> <u>Aldo Lopez</u> LIC.# <u>126486651 SA</u> SOLBERG AIRPORT - READINGTON, NJ	
				Totals - Carry Forward	

Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Person Performing Work	Page:
2-25-04	4239:4		4024:4	Balance Forward	
5-25-04			4026:9	Compression c2 1-77/80 2-76/80 3-76/80 4-77/80 No oil change at this time. See entry on 2-25-04	
				<div style="border: 1px solid black; padding: 5px; text-align: center;"> DATE <u>5-25-2004</u> TACH <u>4026:9</u> I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED I.A.P. <u>ANNUAL</u> <u>INSPECTION</u> HAS BEEN DETERMINED TO BE IN AIRWORTHY CONDITION. W.O.# <u>13746 Solberg Aviation</u> <u>Al Solberg</u> LIC.# <u>126440651IA</u> SOLBERG AIRPORT - READINGTON, NJ </div>	
6-24-04			4031	Replaced oil line PIN 111417-810-0340 oil cooler to Engine. Installed new fitting AN 816-8 OPS check OK. Replaced Mag Gaskets (L+R) <u>Harmon</u> <u>172464881</u> ^{ACP}	
6-2-05	4337:4	498:4	4075:7	Compression c2 #1-80/77- #2-80/78- #3-80/78- #4-80/74 Changed oil and filter. ent filter - No contamination Serviced w/ 8q. 15W50 Aero shell.	
	4337:4	498:4	4075:7	Totals - Carry Forward	

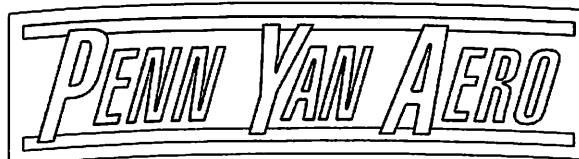
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<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:</p> <p>O-360-A4M</p> <p>Engine Model</p> <p>L-32885-36A 11550-03 3/24/2003</p> <p>Serial Number Work Order Number Date</p> <p><i>Timothy J. Jones</i></p> <p>Repair Station NJ1R350K Authorized Signature</p> <p>PENN YAN AERO</p> <p>Penn Yan Aero Service, Inc</p> <p>2499 Bath Road, Penn Yan, New York 14527</p> <p>Telephone: 1-315-536-2333</p> <p>www.pennyanero.com</p> <p>FAA Approved Repair Station: NJ1R350K</p> </div> <div style="width: 60%;"> <table border="1"> <tr> <td>4370</td> <td>97020388</td> </tr> <tr> <td>Right Magneto - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>4371</td> <td>95120204</td> </tr> <tr> <td>Left Magneto - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>10-5193</td> <td>75016915</td> </tr> <tr> <td>Injector/Carburetor - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Fuel Pump - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>Not supplied</td> <td>N/A</td> </tr> <tr> <td>Starter - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Turbocharger - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Controller - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Controller - Part Number</td> <td>Serial Number</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Waste Gate - Part Number</td> <td>Serial Number</td> </tr> </table> </div> </div> <div style="width: 10%; text-align: center;"> <p><i>Spec installed</i></p> <p><i>Threading 3977.3</i></p> <p><i>4/1/03</i></p> </div>						4370	97020388	Right Magneto - Part Number	Serial Number	4371	95120204	Left Magneto - Part Number	Serial Number	10-5193	75016915	Injector/Carburetor - Part Number	Serial Number	N/A	N/A	Fuel Pump - Part Number	Serial Number	Not supplied	N/A	Starter - Part Number	Serial Number	N/A	N/A	Turbocharger - Part Number	Serial Number	N/A	N/A	Controller - Part Number	Serial Number	N/A	N/A	Controller - Part Number	Serial Number	N/A	N/A	Waste Gate - Part Number	Serial Number
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8-12-03			4005.0	changed oil and Filter, Filled with Aero shell 50 min. Wynn after A #P 172464881																																					
2-25-04			4024.0	Changed oil & oil filter. Sericed w/ 80 15W50 Aero shell. Also changed 12644065																																					
				Totals - Carry Forward																																					

[illegible]

Engine Maintenance Records

Log Number:	
Aircraft Registration Number:	
Engine Manufacturer:	Lycoming
Model:	O-360-A4M
Serial Number:	L-32885-36A
Date Installed on Aircraft:	
Time Between Overhauls:	2000 hours
Engine Position:	

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800-727-7230
www.pennyanero.com