



██████████
██████████ Lunken Airport
Cincinnati, Ohio 45226
██████████ Fax ██████████
Repair Station # ██████████

N32KK

Log #3 / Begin Aug 9, 2012

MODEL: IO-540-K1A5D
SERIAL #: L-14027-48A

ENGINE LOGBOOK

1. Approving National Aviation Authority/Country: FAA / UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: Invoice # 7448	
4. Organization Name and Address: SIGNATURE ENGINES, INC., [REDACTED] CINCINNATI, OHIO 45226						5. Work Order/Contract/Invoice Number: E5348	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	LYCOMING ENGINE	IO-540-K1A5D	N/A	1	L-14027-48A	OVERHAULED	
13. Remarks: THIS ENGINE HAS BEEN OVERHAULED IN ACCORDANCE WITH THE APPLICABLE LYCOMING MANUALS. A LIST OF ALL PARTS, F.A.A. AIRWORTHINESS DIRECTIVES AND MANUFACTURER'S SERVICE BULLETINS COMPLIED WITH ARE A PART OF THESE RECORDS. ALL PARTS HAVE BEEN INSPECTED AND HAVE BEEN DETERMINED AIRWORTHY TO RETURN TO SERVICE. ENGINE TEST RUN PER OVERHAUL MANUAL. TEST SHEET FURNISHED. THIS ENGINE IS RETURNED TO SERVICE. PARTS AND ACCESSORIES REPLACED: 6 Steel Rebarrel Cylinders 1 Overhauled Dual Bendix Magneto 1 New Harness 1 Set of New Spark Plugs 1 Overhauled Fuel Injection 1 Repaired Fuel Pump Engine T.S.M.O.: 0.0 Hours Engine T.T. S. N.: 4044.0 Hours							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: [REDACTED]		21. Approval/Certificate No.:	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): Steve A Darr, Inspector		23. Date (m/d/y): August 9, 2012	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N32KK

Engine Manufacturer Lycoming

Model IO-540-K1A5D

Serial No. L-14027-48A

Date installed on aircraft _____

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> Right | <input type="checkbox"/> Left |
| <input type="checkbox"/> Front | <input type="checkbox"/> Rear |



Certified Repair Station [REDACTED]

[REDACTED] fax [REDACTED]

Cincinnati, Ohio 45226

August 6, 2012 IO-540-K1A5D S/N:L-14027-48A E5348 N33KK

Tach Time: [REDACTED]

Removed 6 Textron Lycoming fuel nozzles p/n:LW10475. Installed General Aviation Modifications, Inc. GAMjector Kit No. GL10 s/n:22088 STC No. SE09445SC per GAMjector Installation Procedure, No. IP-98-001 (Rev B) dated March 13, 1998, No change in weigh and balance. END.

[REDACTED]
Steve Darr, Inspector

SERVICE	OVERHAUL	TIME	SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
---------	----------	------	---

TOTALS brought forward from previous page

RS Aircraft Service

[REDACTED]
Brenham TX 77833

Oct. 1, 2012 Tach = 2660.0 TSMO = 0 IO-540-K1A5D

Reinstalled this engine in N32KK after being overhauled by Signature Engines Inc. WO# E5348. Installed engine with new J3804-40 Lord mounts. Replaced all fuel and oil hose assemblies with Stratoflex 124F001 series hoses. Replaced air ducts and air induction filter. Replaced brush set in alternator and reinstalled along with prop governor. Replaced vacuum pump with Aero Accessories O/H 215CC pump. Added Aero Shell 100 oil. Engine ran and operational checked. Adjusted idle speed.

[REDACTED SIGNATURE]

B+P [REDACTED]

pump with Aero Accessories 07/11/12. [REDACTED] Engine fan and operational checked. Adjusted idle speed. [REDACTED]

B&P [REDACTED]

Nov 21
2012

2685.5

Changed oil & filter - Aeroshell 15/50
Pilot R Wilson Com [REDACTED] [REDACTED]

N32KK

FEBRUARY 22, 2013 TACH 2701.00
COMPRESSION CHECK # 1 71/80 #2 73/80 #3
70/80 #4 70/80 #5 74/80 #6 71/80. DRAINED OIL,
CUT FILTER, NO METAL, ADDED 11 QTS
AEROSHELL W100 AND INSTALLED CH48110-1.
CHECKED MAG TO ENGINE TIMING. CHECKED
SPARK PLUGS. INSPECTED ALL ACCESSORIES
FOR SECURITY. REPLACED #2 AND #5 FUEL
NOZZELS SUPPLIED BY OWNER. CW AD 11-26-
04 INSPECTION OF EXTERNAL FUEL NOZZEL
LINES. JERRY B. PARKER A&P [REDACTED]

[REDACTED]

N32KK

FEBRUARY 22, 2013 TACH 2701.00
COMPRESSION CHECK # 1 71/80 #2 73/80 #3
70/80 #4 70/80 #5 74/80 #6 71/80. DRAINED OIL,
CUT FILTER, NO METAL , ADDED 11 QTS
AEROSHELL W100 AND INSTALLED CH48110-1.
CHECKED MAG TO ENGINE TIMING. CHECKED
SPARK PLUGS. INSPECTED ALL ACCESSORIES
FOR SECURITY. REPLACED #2 AND #5 FUEL
NOZZELS SUPPLIED BY OWNER. CW AD 11-26-
04 INSPECTION OF EXTERNAL FUEL NOZZEL
LINES. JERRY B. PARKER A&P [REDACTED]

N32KK

N32KK

FEBRUARY 22, 2013 TACH 2701.00 I

CERTIFY THAT THIS ENGINE HAS BEEN
INSPECTED IN ACCORDANCE WITH A 100
HOUR INSPECTION AND WAS DETERMINED
TO BE IN AN AIRWORTHY CONDITION.

JERRY B. PARKER A&P [REDACTED]

[REDACTED]

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
8-4-13			2760.0	CHANGED OIL & FILTER - Aeroshell 15W50, 9 QTS PILOT [REDACTED]
1-19-14			2808.4	CHANGED OIL & FILTER - Aeroshell 15W50, 9 QTS PILOT COM [REDACTED]

April 3, 2014

PIPER P32R-300, N32KK, Tach 2829.5 TTSMOH 169.50

Compression: #1 - 70/80; #2 - 73/80; #3 - 76/80; #4 - 73/80; #5 - 75/80; #6 - 74/80;
 Check and lubricated engine control cable ends, R&R spark plugs to clean, inspect, gap
 And test, drained oil, cut filter - no metal, installed CH48110-1 oil filter, added 12 qts
 Aero Shell 100 W Plus, removed muffler heat muff to check muffler for cracks, repaired
 Miscellaneous nut plates and screws on heat muff, repaired p-lead wiring, injector fuel
 Lines checked for proper security. Inspected alternator belt for wear and tightness, engine
 Ground run for ops check and leak check - both ok. I certify this engine has been inspected
 In accordance with 100 hour inspection and determined to be airworthy.

And test, drained oil, cut filter – no metal, installed CH48103-1 oil filter, replaced
Aero Shell 100 W Plus, removed muffler heat muff to check muffler for cracks, repaired
Miscellaneous nut plates and screws on heat muff, repaired p-lead wiring, injector fuel
Lines checked for proper security. Inspected alternator belt for wear and tightness, engine
Ground run for ops check and leak check – both ok. I certify this engine has been inspected
In accordance with 100 hour inspection and determined to be in airworthy condition.
ROBERT D.HENDERSON AP [REDACTED] IA [REDACTED]

XX

1-2-2015

2947.2

CHANGED OIL & FILTER - Aeroshell 15W50
9 QTS Pilot COM [REDACTED]

8-7-2014

2896.0

CHANGED OIL & FILTER - AEROSHELL 15-50
9 QTS Pilot [REDACTED] COM [REDACTED]



Reg#: N32KK

Date: 5-25-2015

Make: Lycoming

Model: IO-540-K1A5D

S/N: L-14027-48A

SMOH: 318.3

TACH: 2978.3

Compression: #1 76/80 #2 72/80 #3 76/80 #4 76/80 #5 75/80 #6 76/80. Timing checked – found ok. Oil drained and replaced filter (CH48103-1). Cut used filter open and visually inspected filter media for metal particles – none found. Filled with 10 quarts Aeroshell 15W50 oil per owners request. Cleaned, regapped, and pressure tested spark plugs. Removed muffler heat shroud and pressure tested muffler and exhaust pipes for cracks – none found. AD 2011-26-04 c/w by inspection of fuel injector lines and clamps for security and condition. AD 2003-14-



Reg#: N32KK

Date: 5-25-2015

Make: Lycoming

Model: IO-540-K1A5D

S/N: L-14027-48A

SMOH: 318.3

TACH: 2978.3

Compression: #1 76/80 #2 72/80 #3 76/80 #4 76/80 #5 75/80 #6 76/80. Timing checked – found ok. Oil drained and replaced filter (CH48103-1). Cut used filter open and visually inspected filter media for metal particles – none found. Filled with 10 quarts Aeroshell 15W50 oil per owners request. Cleaned, regapped, and pressure tested spark plugs. Removed muffler heat shroud and pressure tested muffler and exhaust pipes for cracks – none found. AD 2011-26-04 c/w by inspection of fuel injector lines and clamps for security and condition. AD 2003-14-03 c/w by visual inspection of rotary fuel pump for fuel leaks and torque check of screws IAW SB 529B. Screws were ok. AD 2015-02-07 was found to be complied with at previous overhaul IAW SB 1343B. For remaining AD compliance see AD compliance record dated 5/23/2015 in aircraft permanent records.

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

Larry David

A&P [redacted] IA

screws IAW SB 529B. Screws were ok. AD 2015-02-07 was found to be complied with at previous overhaul IAW SB 1343B. For remaining AD compliance see AD compliance record dated 5/23/2015 in aircraft permanent records.

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

Larry David

[Redacted Signature]

A&P

[Redacted]

IA

8/23/2015		3030.1	changed oil & filter Aeroshell 15-50 10 QTS Pilot [Redacted] Com [Redacted]
10/31/2015		3081.7	changed oil & filter AEROSHELL 15-50 10 QTS PILOT [Redacted] [Redacted]
			SUB-TOTALS this page
			TOTALS-Carry forward to next page

TOTALS brought forward from previous page

Date	2/6/16	HAMMONDS AIRCRAFT MAINTENANCE [REDACTED] HOUMA, LA 70363 [REDACTED]	TACH:	5107.7
Registration #	N32KK			
Serial #	7680117			

ENGINE LOG ENTRY

REMOVED EXHAUST. INSPECTED AND REPAIRED HEAT EXCHANGER. EXHAUST NEEDS TO BE OVERHAULED AT NEXT MAINTENANCE EVENT. INSTALLED EXHAUST COMPLETE WITH NEW GASKETS, P/N RA77611 AND LOCK WASHERS. TORQUED ATTACH HARDWARE. INSTALLED NEW SET OF PLUGS DUE TO CONDITION. APPROVED R.T.S.

[REDACTED] AP. [REDACTED] CHARLES L. HAMMONDS, II [REDACTED] A.P.

N32KK
6/27/2016

IO-540-K1A5D
Tach 3124.4

Ser# L-14027-48A
TSMOH 464.4 TT 4508.4

Drain Engine Oil, Clean Spark Plugs, Check Compressions: #1 76/80 #2 78/80 #3 76/80 #4 20/80 #5 76/80 #6 76/80. Remove #4 Cylinder due to Broken Rings. Install Cylinder after Overhaul By Gibson Aviation. Cylinder installed Using New Piston, Rings, Gaskets. Check Compression #4 78/80. Remove Complete Exhaust System. Disassemble and Pressure test Each Unit Separately. Visually Inspect Exhaust and Install. Install New FAA Approved Oil Quick Drain. Service Engine Crankcase with 11 qts of Aeroshell 100 Mineral Oil. Check Magneto Timing. Inspect Mount, Inspect Controls. Comply with AD 2003-14-03 by Torque check and visual Inspection. Torque Check In Spec. Due Tach 3174.4 Comply with AD 2015-19-07 By Inspection of Fuel Lines for Correct Routing and Clamping. Due Tach 3224.4 Complete AD Listing in Separate Records. I Certify That This Engine has been Inspected in Accordance with an Annual Inspection and Was Determined to be in Airworthy Condition.

Mark Whitfill

AP [REDACTED] IA