N651ED
Book #3

The Standard

ENGINE LOG

ASA-SE-1

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 08/28/2023

WILCO AVIATION

W/O#: 1862
TACH: 3428.7 DC
TSMOH: 2353.7
TT: 5884.7

- 100-hour inspection completed on this date in accordance with Wilco Aviation checklist.
- Serviced engine with, 11 qt. Phillips X/C 20W 50 oil, AA48103-2 filter and a pt. of Camguard, took oil sample for routine analysis, inspected and cleaned oil screen, cut oil filter for inspection, filer checked satisfactory.
- Compressions checked at #1) 77/80, #2) 75/80, #3) 76/80, #4) 74/80, #5) 76/80, #6) 78/80
- Installed overhauled magneto P/N: 6350R, S/N: K-07119 and new magneto harness P/N: KA16001, installed using new drive cushions P/N: 66H22624 and new associated gaskets, tested, inspected, and installed all new Champion spark plugs REM 38E on all cylinders, degreased engine, ground-run operational/leak check satisfactory.
- Checked all AD's, C/W AD# 15-19-07 by inspection of fuel injector lines and clamps, recurring at 3528.7 Tach or when maintenance is performed on fuel injector lines or clamps., AD# 99-04-04 C/W on 03/17/2023 at 3411.1Tach by install of EIS at LH position, recurring inspection N/A, AD# 22-09-09 N/A by make of magneto, AD# 23-09-09 N/A, no turbo installed, no new or recurring AD's due at this time, see complete AD list for details.

I certify that I have inspected this engine in accordance with a 100-hour inspection and found it to be in airworthy condition for return to service. A&P#3918801

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 07/26/2022

WILCO AVIATION

W/O#: 1693
TACH: 3400.5
TSMOH: 2325.5
TT: 5856.5

- 100-hour inspection completed on this date in accordance with Wilco Aviation checklist.
- Serviced engine with, 11 qt. Phillips X/C 20W 50 oil, CH48103-1 filter and a pt. of Camguard, took oil sample for routine analysis, inspected and cleaned oil screen, cut oil filter for inspection, filer checked satisfactory.
- Compressions checked at #1) 74/80, #2) 76/80, #3) 78/80, #4) 75/80, #5) 73/80, #6) 74/80
- Cleaned, gapped, tested and inspected spark plugs, mags to engine timing checked satisfactory.
- Degreased engine, ground run-up leak/operational check was satisfactory.
- Checked all AD's, C/W AD# 15-19-07 by inspection of fuel injector lines and clamps, recurring at 3500.5 Tach or when maintenance is performed on fuel injector lines or clamps., AD# 99-04-04 P/C/W on 12/2018 at 3272.0 Tach by install of rebuilt LH mag, inspection recurring at 3530.2 Tach, impulse coupling replacement due at 5280.2 Tach, no new or recurring AD's due at this time, see complete AD list for details.

I certify that I have inspected this engine in accordance with a 100-hour inspection and found it to be in airworthy condition for return to service.

Peter Clark A&P# 3418801

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 03/17/2023

WILCO AVIATION

W/O#: 1801
TACH: 3411.1

Removed Slick magneto model: 6351 S/N: 12101728 and installed new Surefly electronic ignition system Model: SIM6L S/N: 6L-4022019 at LH position, installed all new Lycoming mag drive cushions P/N 68H22624 and all new gaskets on both magnetos and timed both mags to engine, installed new Champion spark plug P/N: REM40E at bottom #3 position. Changed oil and oil filter on this date, cleaned and inspected oil screen and cut oil filter for inspection, both checked satisfactory. Serviced engine with 11 qt. Phillips X/C 20W 50 oil and Tempest oil filter P/N: AA48103-2, ground-run operational/leak check satisfactory.

Peter Clark A&P# 3418801

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

Jewell Aviation Inc.
418 Airport Rd.
P.O. Box 623
Kennett, MO 63857
573-888-5846
www.jewellaviation.com

Make:	Lycoming
Model:	TIO-540
Date:	07/23/2021
Tach Time:	_____

This date received one cylinder for repair. Inspected cylinder and found it to be in serviceable condition. Replaced exhaust guide, and installed serviceable exhaust valve. Ground seats and honed cylinder barrel. Leak checked cylinder after assembly, no leaks found. This cylinder has been made ready for reinstallation on engine.

A&P 3013489

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 07/27/2021

WILCO AVIATION

W/O#: 1530
TACH: 3367.5
TSMOH: 2292.5
TT: 5823.5

- 100-hour inspection completed on this date in accordance with Wilco Aviation checklist.
- Serviced engine with, 11 qt. Aeroshell 100 mineral oil and CH48103-1 filter, inspected and cleaned oil screen, cut oil filter for inspection, filer checked satisfactory.
- Removed cylinder #3 for outside repair by vendor and reinstalled using new piston rings and gaskets, see vendor log entry dated 07/23/2021 attached.
- Compressions checked at #1) 73/80, #2) 78/80, #3) 75/80, #4) 77/80, #5) 78/80, #6) 78/80
- Cleaned, gapped, tested and inspected spark plugs, installed two new Champion spark plugs P/N: REM40E on #3 cylinder,
- Installed all new engine baffle gap seal using P/N: T-8071-3.
- Degreased engine, ground run-up leak/operational check was satisfactory.
- Checked all AD's, C/W AD# 15-19-07 by inspection of fuel injector lines and clamps, recurring at 3467.5 Tach or when maintenance is performed on fuel injector lines or clamps., C/W AD# 99-04-04 on ~~12/2018 at 3272.0~~ 01/2019 3250.2 D.C Tach by install of new LH mag, inspection recurring at 3530.2 D.C Tach, replacement due at 5280.2 D.C Tach, no new or recurring AD's due at this time, see complete AD list for details.

I certify that I have inspected this engine in accordance with a 100-hour inspection and found it to be in airworthy condition for return to service.

A&P#3418801

YEAR: 2019 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
5-13-19	3296			Drained engine oil, Removed + Replaced oil filter with Tempest AH48103-1, Serviced engine with 9 quarts Phillips XC 20/50, Post runup normal. No leaks. Sample to Blackstone. Brent Ledford A&P#3800691

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 05/01/2020

WILCO AVIATION

W/O: #1318
TACH: 3365.0
TSMOH: 2290.0
TT: 5821.0

- 100-hour inspection completed on this date in accordance with Wilco Aviation checklist.
- Serviced engine with, 11 qt. Phillips X/C 20W50, 1pt. Camguard, CH48103-1 filter, inspected and cleaned oil screen, took oil sample for routine analysis and cut oil filter for inspection, filer checked satisfactory.
- Compressions checked at #1) 75/80, #2) 76/80, #3) 77/80, #4) 76/80, #5) 75/80, #6) 77/80
- Cleaned, gapped, tested and inspected spark plugs, installed new gaskets on right magneto, retimed mags to engine.
- Installed new mag lead hardware kit P/N: M6203 on cylinders #3 and #6 bottom.
- Installed new exhaust riser P/N: K38137-06 on #3 and new exhaust riser P/N: K38137-07 on #5 and 2 new mufflers P/N: K67517-00 on #3 and #5, installed new JPI EGT probe P/N: 1280 on #6 cylinder riser.
- Degreased engine, ground run-up leak/operational check was satisfactory.
- Checked all AD's, C/W AD# 15-19-07 by inspection of fuel injector lines and clamps, recurring at 3465.0 Tach or when maintenance is performed on fuel injector lines or clamps. AD# 17-16-11 N/A by engine S/N, C/W AD# 99-04-04 on ~~12/2018~~ 01/2019 at ~~3272.0~~ 3120.2 DC Tach by install of new LH mag, recurring at 3530.2 DC Tach, replacement due at 5280.2 DC Tach, no new or recurring AD's due at this time. See complete AD list for details.

I certify that I have inspected this engine in accordance with a 100-hour inspection and found it to be in airworthy condition for return to service. A&P#3418801

YEAR: 2018 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
7-18-18	3256			Drained engine oil. Removed/Replaced filter w/ Tempest AA48103-1. Serviced engine with 9 quarts Phillips XC 20/50. Post change run up normal. No leaks. Sample to Blackstone. Brett Kelly A&P #3800691

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 01/14/2019

WILCO AVIATION

W/O: #1138
TACH: 3280.2
TSMOH: 2205.6
TT: 5736.2

Removed Slick magneto model: 6351 S/N: 03050844, installed new rebuilt Slick magneto model: 6351 S/N: 12101728, with two new Lycoming mag drive cushions P/N 08-03713 at Left position, timed both mags to engine, ground-run operational/leak check satisfactory.

Dustin Clark A&P# 3418801

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 02/13/2019

WILCO AVIATION

W/O: #1153
TACH: 3280.6
TSMOH: 2206.0
TT: 5736.6

- 100-hour inspection completed on this date in accordance with Wilco Aviation checklist.
- Engine serviced with 9 qt. Phillips X/C and Tempest oil filter CH48103-1 prior to annual at 3256.0 Tach, oil sample was taken for routine analysis and filter cut for inspection, analysis and filter checked satisfactory.
- Installed new gasket set P/N: SL12034-SC on #6 cylinder
- Compressions checked at #1) 76/80, #2) 76/80, #3) 76/80, #4) 78/80, #5) 74/80, #6) 78/80
- Cleaned, gapped, tested and inspected spark plugs, mags to engine timing checked good, cleaned and inspected all fuel injector nozzles.
- Degreased engine, ground run-up leak/operational check was satisfactory.
- Checked all AD's, C/W AD# 15-19-07 by inspection of fuel injector lines and clamps, recurring at 3380.6 Tach or when maintenance is performed on fuel injector lines or clamps. AD# 17-16-11 N/A by engine S/N, C/W AD# 99-04-04 on 01/2019 at 3280.2 Tach by install of new LH mag, impulse coupling inspection recurring at 3530.2 Tach, impulse coupling replacement due at 5280.2 Tach, no new or recurring AD's due at this time. See complete AD list for details.

I certify that I have inspected this engine in accordance with a 100-hour inspection and found it to be in airworthy condition for return to service.

Dustin Clark A&P# 3418801

YEAR: 2017 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
7-24	3194		2119.4	Drained engine oil Removed + Replaced oil filter with Tempest AA48103-1. Serviced engine with 11 quarts Phillips XC 20/50 Oil Sample to Blackstone labs. Ran engine No leaks detected
				Added 16 oz Camguard w/ oil
				Ret'd Cabinet PP# 3800691

MAKE: LYCOMING
MODEL: IO-540-K1G5
S/N: L-20748-48A
DATE: 01/26/2018

WILCO AVIATION

W/O: #1043
TACH: 3211.7
TSMOH: 2137.1
TT: 5667.7

- 100-hour inspection completed on this date in accordance with Wilco Aviation checklist.
- Changed oil, oil filter and took oil sample for routine analysis, cut filter for inspection at previous oil change on 07/2017 at 3194.0 Tach., filter checked satisfactory.
- Installed new BARRY engine mounts P/N: 94011-02 and 94011-03, replaced all attaching hardware with new.
- Compressions checked at #1) 76/80, #2) 74/80, #3) 76/80, #4) 77/80, #5) 78/80, #6) 78/80
- Cleaned, gapped, tested and inspected spark plugs, mags to engine timing checked good.
- Degreased engine, ground run-up and leak check was satisfactory.
- Checked all AD's, C/W AD# 15-19-07 by inspection of fuel injector lines and clamps, recurring at 3311.7 Tach or when maintenance is performed on fuel injector lines or clamps. AD# 17-16-11 N/A by engine S/N, no new or recurring AD's due at this time. See complete AD list for details.

I certify that I have inspected this engine in accordance with a 100-hour inspection and found it to be in airworthy condition for return to service.

A&P# 3418801 I.A.

YEAR: 2016 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
4 Jan	3101.6		2026	Drained engine oil. Removed Replaced Oil Filter with Tempest AA48103-1. Serviced Engine with 12 quarts Phillips X/C 20w-50. Oil Sample to Blackstone Labs. Ran Engine no leaks noted. Brent Collett PP# 3800691 Also Added 16 oz Camguard @ time of oil change
7/5/16	3125.6		2051	Drained engine oil. Removed + Replaced oil filter with Tempest AA48103-1. Serviced engine with 12 quarts Phillips X/C 20w/50. Oil to Blackstone. Ran engine no leaks noted 16 oz Camguard Brent Collett PP# 3800691

YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				Date 10-1-2016 N Number N-651ED TACK 3150.0 SMOH 2077.8 Make - LYCOMING MODEL - IO-540-K1G5 S/N -L-20478-48A INSPECTED IN ACCORDANCE WITH THE LYCOMING SERVICE MANUAL. DRAINED OIL AND REFILLED WITH 12 QTS OF AERO SHELL 100W. INSTALLED NEW CH48103 OIL FILTER. REPLACED ALL OIL LINES PART # 111F417-8D0284, #111F417-8D0210 & #111F417-8D0260, PER AD 95-26-13. CLEANED AIR FILTER CLEANED AND GAPPED SPARK PLUGS AND CHECK MAG TIMING.LEAK CHECK COMPLETED,NO LEAKS NOTED. SERVICED ALL ENGINES CONTROLS, CLEANED FUEL STRAINGER. COMPRESSION #1-78,#2-79,#3-79, #4-79,#5-79,#6-79. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINDED TO BE IN AN AIRWORTHY CONDITION. Scott Harper 3423951 IA

JACKSON AVIATION **N651ED** **JULY 15, 2014**
TACH: 3062.8 **TTEN: 1990.6** **SMOH: 1990.6**

INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA32-31 SERVICE MANUAL. COMPRESSION RESULTS AS FOLLOWS: #1: 71, #2: 72, #3: 68, #4: 68, #5: 71, #6: 71. DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48-103 OIL FILTER AND SAFETIED AS REQUIRED. SERVICED ENGINE WITH 12 QTS AEROSHELL W100 OIL. WASHED AND RAN ENGINE, ALL OPERATIONS NORMAL. ALL ADS CURRENTLY COMPLIED WITH TO DATE, SEE AIRCRAFT RECORDS FOR LISTINGS.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND IS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME.

RUSSELL W. JACKSON AP429395769IA

YEAR:	RECORDING	TODAY'S	TOTAL	Description of Inspections, Tests, Repairs and Alterations	lumber of Technician or Repair
DATE				**FLYING C AVIATION** 501-230-4460 AVIATION SERVICES 501-207-3427 1 Aug 2015 L-20478-48A Tach: 3076.8 TT: 2004.6 SMOH: 2004.6 Completed an Annual inspection this date. Drained oil, removed and cut oil filter, no metal noted. Installed new oil filter AA48103-1, serviced with 12 qts of Aeroshell 100W oil. Cleaned and gapped spark plugs and reinstalled. Checked mag timing, check good. Cleaned fuel strainer. Compressions: #1 71 #2 73 #3 70 #4 73 #5 72 #6 72. Checked and lubed all engine controls. All Ads checked through this date Ground run, leak checked, no leaks noted at this time. I certify this engine has been inspected IAW an Annual inspection and found to be airworthy at this time. Return to service. --------Stephen Choules A&P 2810711 IA----------	

YEAR: 2014 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
9/16/2014				Removed STARTER - Reinstalled Rebuilt
				SKYTEC 149-NL High Torque STARTER
				SERIAL # FN-410964 - OPS OK Good
				Scott Lemond
				A+P 3500310

YEAR: 2012 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alterations** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
22 AUG	2999.8		1927.6	DRAINED Eng oil - Removed AND Replaced
				oil filter with new CH48103-1 FILTER -
				SERVICED Engine with 12 qts Shell 100W oil -
				Removed, cleaned, AND Reinstalled all SPARKPLUGS
				Brett [signature]
				A&P 3500310
7 NOV 12	3035.0			Complied with CHAMPION AEROSPACE SB1-12
				Removed RT MAGNETO - Replaced points with
				POINTS KIT # M3081 - Replaced CAPACITOR with
				# K3984 - Reinstalled MAGNETO - TIMED AT
				25° BTC - RAN ENGINE - OPS ✓ NORMAL
				Brett [signature] A&P 3500310

JACKSON AVIATION **N651ED** **JULY 8, 2013**
TACH: 3061.5 **TTEN: 1989.3** **SMOH: 1989.3**

INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA32-31 SERVICE MANUAL. COMPRESSION RESULTS AS FOLLOWS: #1: 72, #2: 72, #3: 68, #4: 69, #5: 71, #6: 70. DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48-103 OIL FILTER AND SAFETIED AS REQUIRED. SERVICED ENGINE WITH 12 QTS AEROSHELL W100 OIL. WASHED AND RAN ENGINE, ALL OPERATIONS NORMAL. ALL ADS CURRENTLY COMPLIED WITH TO DATE, SEE AIRCRAFT RECORDS FOR LISTINGS.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND IS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME. [signature]

RUSSELL W. JACKSON AP429395769IA

YEAR: 2012 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
JAN 5	2832.7		1760.7	DRAINED ENGINE OIL - Removed AND
				Replaced oil FILTER with CH-48103 FILTER-
				SERVICE ENGINE WITH 12 qTS of
				AEROSHELL 100W OIL - REMOVED, CLEANED
				AND REINSTALLED SPARK PLUGS
				Brett Lund
				A+P 3500310
APR 20	2892.0		1820.0	REMOVED RT MAGNETO SER # 03012312
				REPLACED RT MAGNETO WITH NEW SLICK MAGNETO
				PART # 6350 SERIAL # 12030227
				RAN ENGINE - OPS check Good
				Brett Lund A+P 3500310

JACKSON AVIATION **N651ED** **MAY 3. 2012**
TACH: 2894.8 **TTEN: 1822.6** **SMOH: 1822.6**

INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA32-301 SERVICE MANUAL. COMPRESSION RESULTS AS FOLLOWS: #1: 71, #2: 71, #3: 70, #4: 71, #5: 70, #6: 70. DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48-103 OIL FILTER AND SAFETIED AS REQUIRED. SERVICED ENGINE WITH 12 QTS AEROSHELL W100 OIL. WASHED AND RAN ENGINE, ALL OPERATIONS NORMAL. ALL ADS CURRENTLY COMPLIED WITH TO DATE, SEE AIRCRAFT RECORDS FOR LISTINGS.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND IS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME. Russell W. Jackson

RUSSELL W. JACKSON AP429395769IA

29 JUN 12	2946.9		1874.2	DRAINED ENG oil - REMOVED AND
				REPLACED oil Filter with CH-48103 Filter-
				SERVICED Engine with 12 qTS AEROSHELL 100W
				REMOVED, cleaned, AND REINSTALLED SPARK Plugs-
				WASHED AIRCRAFT. Brett Lund
				A+P 3500310

YEAR: 2011 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
7 Aug 11	2675.0		1602.8	DRAINED Engine oil - Removed And Replaced oil filter with CH48-103 Serviced with 12qts Aeroshell 100 oil Brett Lund A+P 3500310
7 Sept	2710.5		1638.5	DRAINED Engine oil - Removed And Replaced oil FILTER with CH-48103 - Serviced Eng with 12qts Aeroshell 100 oil - Removed cleaned And Reinstalled SPARK plugs. Brett Lund A+P 3500310

YEAR: 2011 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
29 Sept	2743.2		1671.2	DRAINED ENG oil - Remove + Replaced oil FILTER with CH-48103 - Serviced Eng with 12qts AEROSHELL 100W oil. - WASHED ENGINE Brett Lund A+P 3500310
8 NOV 11	2781.3		1709.3	DRAINED Eng OIL - Removed + Replaced oil FILTER with CH-48103 - Serviced Eng with 12qts AEROSHELL 100W oil - Removed, cleaned, Reinstalled SPARK plugs Brett Lund A+P 3500310

ENGINE LOG BOOK II

Blue Diamond Engines, Inc.

JACKSON AVIATION **N651ED** **APR 7, 2011**
TACH: 2615.4 **TTEN: 1543.2** **SMOH: 1543.2**

INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA32-301 SERVICE MANUAL. COMPRESSION RESULTS AS FOLLOWS: #1: 71, #2: 72, #3: 72, #4: 73, #5: 72, #6: 71. DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48-103 OIL FILTER AND SAFETIED AS REQUIRED. SERVICED ENGINE WITH 12 QTS AEROSHELL W100 OIL. WASHED AND RAN ENGINE, ALL OPERATIONS NORMAL. ALL ADS CURRENTLY COMPLIED WITH TO DATE, SEE AIRCRAFT RECORDS FOR LISTINGS.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND IS FOUD TO BE IN AIRWORTHY CONDITION AT THIS TIME.

RUSSELL W. JACKSON AP429395769IA

TACH TIME	2647.8		21 JUNE 2011
TTEN	1575.6		DRAINED ENGINE OIL - REMOVED CH48-103 AND REPLACED OIL
SMOH	1575.6		FILTER - SERVICED WITH 12 QTS AEROSHELL 100 OIL
			REMOVED DEFECTIVE VACUUM PUMP - INSTALLED NEW
			RAPCO RAP215CC VACUUM PUMP - RAN ENGINE -
			LEAK CHECK AND OPS CHECK GOOD
			A+P 3500310

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

AIRWORTHINESS DIRECTIVE / COMPLIANCE RECORD

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
JULY 30, 2009			DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO
TACH: 2583.9			DEFECTS NOTED. INSTALLED NEW CH48103-1 OIL FILTER AND SECURED
TTEN: 1511.7			AS REQUIRED. SERVICED ENGINE W/ 12 QTS AEROSHELL W100 OIL.
SMOH: 1511.7			CLEANED / GAPPED ALL SPARK PLUGS, CLEANED ALL FUEL INJECTORS,
			SET MAG TIMING @ 25° BTC. RAN ENGINE ALL OPERATIONS
			NORMAL. AP429395769

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

JACKSON AVIATION **N651ED** **JAN 7, 2010**
TACH: 2605.4 **TTEN: 1533.2** **SMOH: 1533.2**

INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA32-301 SERVICE MANUAL. INSTALLED 12 NEW REM40E SPARK PLUGS. COMPRESSION RESULTS AS FOLLOWS: #1: 72, #2: 72, #3: 73, #4: 72, #5: 72, #6: 72. DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48-103 OIL FILTER AND SAFETIED AS REQUIRED. SERVICED ENGINE WITH 12 QTS AEROSHELL W100 OIL. REINSTALLED FUEL INJECTION SERVO, INJECTORS, LINES, FLOW DIVIDER, AND FUEL PUMP AFTER OVERHAUL BY AIRCRAFT CARB AND INJECTION SERVICES; SEE TAGS HIS DATE. INSTALLED NEW SKYTEC 149-NL SN: FN-410964 STARTER. REPLACED ALL INTAKE GASKETS WITH NEW. WASHED AND RAN ENGINE, ALL OPERATIONS NORMAL. ALL ADS CURRENTLY COMPLIED WITH TO DATE, SEE AIRCRAFT RECORDS FOR LISTINGS.
I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND IS FOUD TO BE IN AIRWORTHY CONDITION AT THIS TIME.

RUSSELL W. JACKSON AP429395769IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

AIRWORTHINESS DIRECTIVE / COMPLIANCE RECORD

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
DEC 28, 2007			INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA 32-301 SERVICE
TACH: 2287.8			MANUAL. COMPRESSION RESULTS: #1 72/80 #2 72/80 #3 74/80 #4 72/80 #5 75/80 #6 75/80. DRAINED
TTEN: 1255.6			ENGINE OIL. REMOVED AND INSPECTED OIL FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48103
SMOH: 1255.6			OIL FILTER, SAFETIED AS REQUIRED. SERVICED ENGINE W/ 12 QTS AEROSHELL W100 OIL
			CLEANED AND GAPPED ALL SPARK PLUGS. CLEANED FUEL INJECTORS. WASHED AND RAN ENGINE,
			ALL OPERATIONS NORMAL. ALL ADs CURRENTLY COMPLIED W/ TO DATE, SEE AIRCRAFT RECORDS
			FOR LISTINGS.
			I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION
			AND IS FOUND TO BE IN AIRWORTHY CONDITION AT THIS TIME
			A&P 239576 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

AIRWORTHINESS DIRECTIVE / COMPLIANCE RECORD

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
JAN 4, 2009			INSPECTED ENGINE IAW AN ANNUAL INSPECTION PER PIPER PA 30-301
TACH: 2379.0			SERVICE MANUAL. COMPRESSION RESULTS: #1: 72/80 #2: 72/80 #3: 72/80 #4: 72/80
TTEN: 1306.8			#5: 74/80, #6: 72/80. DRAINED ENGINE OIL. REMOVED AND INSPECTED OIL
SMOH: 1306.8			FILTER, NO DEFECTS NOTED. INSTALLED NEW CH48102 OIL FILTER AND
			SAFETIED AS REQUIRED. SERVICED ENGINE W/ 12 QTS AEROSHELL W100 OIL
			CLEANED AND GAPPED ALL SPARK PLUGS. CLEANED FUEL INJECTORS. MAG TIMING
			@ 25° BTC. WASHED, RAN ENGINE, ALL OPERATIONS NORMAL. ALL ADs
			CURRENTLY COMPLIED W/ TO DATE, SEE AIRCRAFT RECORDS FOR LISTINGS.
			I CERTIFY THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL
			INSPECTION AND IS FOUND TO BE IN AIRWORTHY CONDITION AT
			THIS TIME.
			RUSSELL W. JACKSON
			A&P 239576 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 2006 ~~19~~	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving National Aviation Authority/Country: FAA/UNITED STATES
2. AUTHORIZED RELEASE CERTIFICATE
3. Form Tracking Number: AV06-01951
4. Organization Name and Address: FAA CRS #CM2R747K — AUTOPILOTS CENTRAL, INC. HANGAR 23, TULSA INT'L AIRPORT • TULSA, OKLAHOMA 74115
5. Work Order/Contract/Invoice Number: Same #3

6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch No.:	12. Status/Work:
1	MODE PROGRAMMER	1C771		1	552	REPAIR

13. Remarks:
Reference attached service shop report for work performed.

14. Certifies the items identified above were manufactured in conformity to:
☐ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. ☒ 14 CFR 43.9 Return to Service ☐ 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: Hilbert Buehring	21. Approval/Certificate No.: CM2R747K
17. Name (Typed or Printed):	18. Date:	22. Name (Typed or Printed): HILBERT BUEHRING	23. Date (m/d/y): 4-21-06

User/Installer Responsibilities

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

AIRWORTHINESS DIRECTIVE / COMPLIANCE RECORD

DATE 2006 ~~19~~	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
5/18	2080	5	Oil Change Aero Shell 15-50W by Aaron McKinley 1701870
7-17	2107		Replaced # 2 & 4 Rocker Gaskets check for oil leaks - Larry McCreel A VP314 884
8/8	2111	.6	Oil Change + Filter Aero Shell 15-50W by A. McKinley 1701870
11/28	2144	.1	Oil Chang + Filter Aero Shell 15-50W. by A. McKinly 1701870

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 2006 ~~19~~	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
1-27 06			Date: 1/27/2006, Aircraft: 651ED, Type: PA32 Removed wheelpants and removed wheel assy. Removed lower torque link bolt and removed inner strut tube. Cleaned tube and installed new quadring P/N 484-769. Reinstalled lower strut tube and serviced with H-5606 fluid and nitrogen. Reinstalled wheel assy. and saftied. Reinstalled wheelpants. Above listed maintenance and/or inspections completed by Monarch Air repair station under below referenced work order(s). Date: 1/27/06 Work Order: 05892 TACH: 55.4 HOBB: 4504.5 I certify that the above repairs are airworthy and that the aircraft is approved for return to service. Signed CRS MNGR501G Monarch Air (972) 931-0345
Feb 16-06			2063.3 TAC Change oil + Filter 15-50W Aero shell by Arden McKinley # 1701870

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

November 12, 1986
WO#86-0070

IO-540-K1C5
S/N L-20748-48A

AIRWORTHINESS DIRECTIVE / COMPLIANCE RECORD

DATE 11-12-19~~86~~	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
"	Tach: 536.0	63-14-03	Oil Pump. NA By Engine Serial.
"	"	64-16-05	Fuel Pump. NA By Engine Model.
"	"	66-20-04	Oil Filter Adapter. CW. Correct Gskt. Installed.
"	"	67-22-06	Fuel Injector Servo. NA By Engine Model.
"	"	69-08-09	Crankshaft. NA By Engine Model.
"	"	73-23-01	Piston Pins. NA By Engine Model.
"	"	75-08-09	Oil Pump. NA By engine Serial.
"	"	75-09-15	Fuel Flow Divider. CW. Correct Gskt. Installed.
"	"	78-23-08	Fuel Leakage. NA By Engine Model.
"	"	78-23-10	Fuel Injector Servo. CW. Correct Bellows & Bshg. Installed.
"	"	79-04-05	Fuel Injector Servo. NA by Servo Part Number.
"	"	81-03-05	Fuel Leakage. NA By Engine Model.
"	"	81-18-04R2	Oil Pump. CW. Correct Impellers & Shaft Installed.
"	"	83-22-04	Fuel Injector Servo. CW. Correct Diaphragm Installed.

Mechanic
8021170
State
CRS

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
Nov-15-05	2036.7		Change oil & Filter 15W+50W shell by Arden McKinley 170 1870
NOV-29-05			INSPECTED ENGINE DRIVEN Pump PER PIPER SB 565-548-548A & emergency Bulletin & checked MAINTENCE RECORDS & FOUND NO NEW Pump INSTALLED & VERIFIED By SERIAL & DATE CODE 15473 2101 Larry McLeod A&P 2148841

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

AIRWORTHINESS DIRECTIVE / COMPLIANCE RECORD

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
Sept 7-2006			TAC 2123.2 SMOH 1091 Change O.C Filter only, check Mag timing, Clean + gap Spark Plugs Compression 1 73/80 2 72/80 3 75/80 4 74/80 5 75/80 6 75/80 REPLACE 4 Rocker Cover gaskets, REPLACE Air Filter ELEMENT, CLEAN Fuel Nozzles check hoses + Controls for security.
			DATE 9-7-06 TAC TIME 2123.2 TT 1091 I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A/AN 100h INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION Larry McLeod AUTHORIZED SIGNATURE 2148841 LICENSE #
			1-31-07 TAC 2150 INSTALLED 3 overhauled MUFFLERS REPAIRED HEAT MUFF REPLACED Bolts IN MUFF checked FUEL LINES Per AD 02-26-01, REPAIRED ENGINE BAFFLE #1 cyl, REPLACED OIL PRESS Light switch. Larry McLeod A+P 2148841

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 2005 ~~19~~	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
11-12-05	1920	.3	Change oil & Filter add 10 qt. 15w50 Shell by AMC Finly 1701870 ATP
2-2-05	TAC 1954		CHANGE OIL & Filter INSTALL 10 QTS 15W50 SHELL Larry McCaul 1A214841
5-30-05	1999	.8	Change oil & Filter installed 10 Qts 15w50 Shell by AMC Finly 1701870 ATP

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
AUG-5-05			TAC 2018.4 986 SMOH CHANGE OIL & Filter INSTALL 11 QTS 100W, Compression 1 79/80 2 75/80 3 72/80 4 79/80 5 75/80 6 75/80 CLEAN & GAP Spark PLUGS check MAG timing REPAIR BAFFLE #5 CYL, Tighten All Rocker Box GASKETS Lyc SB 566 DOES NOT APPLY DUE TO NO CRANKSHAFT REPLACMENT AFTER DEC 1999. REPLACE Oil Cooler hoses per AD 95-26-13.

DATE ~~AUG 5 05~~ TAC TIME 2018 TT 986
I CERTIFY THIS ENGINE HAS
BEEN INSPECTED IN ACCORDANCE WITH
A/AN ~~100hr/Annual~~ INSPECTION AND WAS
DETERMINED TO BE IN AIRWORTHY CONDITION
Larry McCaul 1A214841
AUTHORIZED SIGNATURE LICENSE #

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
11-14-03			TAC 1853.
			Change Oil + Filter Install 10 Qts 15W50
			Shell, Repair Copper oil Pressure Line to Guage
			Install New Rapco Vacuum Pump Model
			RA215CC SN# A11223 + check Vac Press
			+ Pump, No oil Leaks Larry McCormick
			A+P 2148841
4-27-04			TAC 1879
			Change Oil + Filter Install 11 Qts
			Shell 15W50, check Filter For Metal
			None Found, Leak Ck. OK
			Larry McCormick A+P 2148841

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
7-14-04			TAC 1888.4 SMOH 856
			Clean + gap Spark Plugs, check Mag timing
			Compression 1 78/80 2 68/80 3 72/80 4 78/80 5 78/80 6 76/80
			Lube All Controls, Replace Air Filter
			Clean Fuel Nozzles. Remove All Accessories
			+ oil Sump To Comply with AD2004-25-04C
			Installed New Crank Gear Bolt PN#
			STD 2209 Replaced All Seals + Gaskets
			Run Eng + Leak Checked.

DATE 7-14-04 TAC TIME 1888.4 TT 856
I CERTIFY THIS ENGINE HAS
BEEN INSPECTED IN ACCORDANCE WITH
THE ANNUAL INSPECTION AND WAS
FOUND TO BE IN AIRWORTHY CONDITION
Larry McCormick 1A2148841
AUTHORIZED SIGNATURE LICENSE #

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

NEW MAG Model
6350
6351

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	6-5-03		TAC 1747
			REMOVED BENIX 1200 SERIES MAGS, REPLACED
			with SLICK KIT # K6518 INCLUDING NEW HARNESS
			+ AutoLite SPARK PLUGS UREM38E, MAG SN# LEFT
			03050844 Right SN# 03012312, INSTALLED NEW
			Air Filter, REPAIRED BAFFLING TIED UP ALT Air DOOR
			CABLE, REPLACED VAC pump hose TO FIREWALL, CHANGED OIL
			+ Filter INSTALLED 12 QTS 15W50 SHELL, CLEANED FUEL NOZZLES
			CW AD 95-26-13 By INSPECTION OF ~~FUEL~~ OIL LINES FOR proper CLAMPS
			CW AD 2002-26-01 By INSP FUEL INJECTOR LINES FOR CLAMPS. LUBE
			ALL CONTROLS, WASHDOWN ENGINE, COMPRESSION
			1 75/80 2 74/80 3 75/80 4 74/80 5 72/80 6- 75/80
			CLEAN FUEL NOZZLES, REPAIRED ENGINE
			BAFFLE. SEE NEXT PAGE —

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
			DATE 6-5-03 TAC TIME 1747 TT 715 I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A/AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION Larry McCord 1214 8841 AUTHORIZED SIGNATURE LICENSE #
	8-13-03		TAC 1795
			Change OIL + Filter INSTALL SHELL 10W
			INSTALLED Overhauled ALT 6421R SN# D032694
			Larry McCord A+P 1214 8841

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12/2/02			Tact 1676.0 SMOH 644.0 ETT 4096.2
			Compression Check #1 78/80 #2 76/80 #3 76/80 #4 77/80
			#5 78/80 #6 77/80, Checked Magneto To Engine Timing
			Changed oil using Aero Shell 15W50 + CH48103
			filter. Cleaned & gapped Sparkplugs. Repaired
			Muffler Shroud, as Needed, Checked Engine
			Controls. I Certify This Engine has been inspected
			IAW an annual Inspection & was determined
			To be Airworthy Charles W. [illegible] A+P 1972156 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.

N651ED
ENGINE

Thunder AVIATION

DATE: 1/29/03
HOBBS: 4153.6

Spirit of St. Louis Airport • 639 North Bell Avenue • Chesterfield, Missouri 63005 • 636.532.5600

1. OIL SAMPLE TAKEN.
2. DRAINED ENGINE OIL AND REMOVED OIL FILTER. REPLACED OIL FILTER WITH CH48103 AND SERVICED ENGINE WITH 12 QTS AS15W50.
3. REMOVED SPARK PLUGS. REPLACED 7 SPARK PLUGS WITH REM40E. TORQUED PLUGS.
4. REPLACED #2, #4, AND # 6 PUSH ROD SEALS WITH PN LW-18661 AND VALVE COVER GASKETS WITH PN 67193. ROCKER ARM PIN GASKETS 4 EACH WITH PN 66732.
5. REPLACED OIL BREATHER HOSE WITH PN MIL-H-1.
6. PERFORMED ENGINE RUN-UP, LEAK CHECK AND OPERATIONAL CHECK. SATISFACTORY.

I certify that this aircraft engine is airworthy with respect to the work performed and is approved for return to service. See pertinent details on file Work Order Number: _R1310_____

*Signed: _____ CRS T0DR376I_*

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
2/3/02			TACT 1545.6
			Changed oil using Aero-Shell 15W50 & CH48103
			Oil filter installed overhauled Starter
			RAN ENGINE No oil leaks Noted &
			Systems Checked OK. Charles W. Yates
			A&P1972156
3/19/02			TACT 1576.0
			Changed oil using Aero-Shell 15W50
			& CH48103 filter washed & RAN ENGINE
			No leaks Noted Charles W. Yates
			A&P1972156

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
8/2	1625.	0	Changed oil using Aero-Shell 15W50
			+ CH48103 filter, Washed engine +
			released for flight. Charles W. Yates
			A&P1972156
	1654.	2	Changed oil using Aero-Shell 15W50
			& CH48103 filter, Washed engine + Test run
			No leaks Noted & released for flight
			Charles W. Yates A&P1972156

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 2001 19__	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
8/27/01			@Replaced Fuel Pump P/N LW15473 + gasket 60096
Tach	1443.6		@Ran engine + check operation okay.
TSMOH	411.6		[signature] A&P 500942144
ETT	3864.6		

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 2001 ~~19__~~	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
11/10/01			INSTALLED ALL New Cylinder ASSYS. Part
Tact	1483	0	Number 05K21120 from lycoming. installed
SMOH	451	0	New Wiring HARNESS P/N A21-4AS-11. installed
ETT	3904	0	ALL New Sparkplugs P/N REM40E. installed
			ALL New baffeling Seals, installed ALL New intake
			hoses & Rocker box drain hoses, Replaced ALT.
			belt, Removed left MAGNETO & Checked Impulse
			Coupling. Per AD 78-09-07R3 due AGAIN AGTT
			4404.0 C/W AD 93-02-05 leak check of fuel lines
			due AGAIN Tact 1583.0. C/W AD 95-26-13 by INSP
			of fuel & oil Hoses. I Certify This Engine has
			been inspected in Accordance with AN ANNUAL
			inspection & was determined to be in AN
AD			Airworthy Condition Charles W. Yates A&P 1972156 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
JAN 4-2001			Performed inspection + Maint. Compression
T.T.A.F. 3765.9			check ① 74/80 ② 70/80 ③ 72/80 ④ 74/80 ⑤ 75/80 ⑥ 76/80 Cleaned gaped
TACH 1345.7			& checked all spark plugs. Cleaned fuel
TSMOH. 313.7			injectors. Drained oil, changed filter
E.T.T. 3766.7			serviced engine with W40 Aeroshell.
			c/w AD 93-02-05 fuel injection line inspection.
			c/w AD 96-12-07 impulse coupling inspection.
			due @ 4265. T.T.A.F
			I CERTIFY THAT THIS AIRFRAME PROP ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL 100HR / 50HR INSPECTION PER THE SCOPE AND DETAIL OF FAR 43 APP D AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION.
			AUTHORIZED SIGNATURE [signature] AP E457333512A.
			THUNDER AVIATION N.A. INC. 18399 EDISON AVE. CHESTERFIELD, MO 63005 (314) 537-5600

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19 2001	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
April 4, 2001			① Changed oil + filter
TTAF	3819.0		② Installed 12 qts W80 Aeroshell
TACH	1398.8		③ Installed new filter CH 48103
TSMOH	366.8		④ Ran Engine + checked for leaks
ETT	3819.8		[signature] AP 500942144
May 18, 2001			Replaced gaskets between Rt mag. + adapter plate P/N LW12681,
Tach	1410.0		+ between adapter plate + ~~Eng.~~ case P/N 6222A. Timed
TTAF	~~3830.2~~ 3830.2		magnetos to engine. [signature] AP500942144
TSMOH	378.0		
ETT	3831.0		

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
8-14-2000			Run engine, drained oil, changed
TACH 1220.8			filter, serviced engine with W80
ACTT 3641.8			Aeroshell. [signature] A&P 494523335 IA.
10-3-00	Tach 1262.7		Change oil + filter. Cut open filter/no metal. Installed
ACTT	3683.7		12 qts Aeroshell 80wt + CH48103 filter. Comp test #1) 72/80
#2) 79/80 #3) 74/80 #4) 78/80 #5) 73/80 #6) 76/80. Cleaned, gapped, tested, rotated			
spark plugs timed magneto to engine. C/W AD 93-02-05 fuel injection			
line inspection. C/W 99-04-04 Magneto impulse coupling insp. Time			
magneto to engine.			

I CERTIFY THAT THIS AIRFRAME PROP ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION IN ACCORDANCE WITH THE SCOPE AND DETAIL OF FAR 43 APP D AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION.

AUTHORIZED SIGNATURE [signature] A&P 487745245

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
11-1-00			Removed starter + pump. Replaced
TACH 1298.4			crank seal + starter during assembly.
ETT 3719.4			Engine run up for leak check +
TSMOH 266.4			oops checked good.
ET.T 3719.4			[signature] A&P 494523335 IA.
11-6-00	TACH	1311.2	Run engine, drained oil,
			changed filter. engine serviced with
			W80 Aeroshell. returning to service.
			[signature] A&P 494523335 IA.

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

Airworthiness Approval Tag
User/Installer Responsibilities
FAA Forms 8130-3

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.

N651ED
ENGINE

Thunder AVIATION

DATE: 6/10/1999
TACH: 1134

Spirit of St. Louis Airport • 639 North Bell Avenue • Chesterfield, Missouri 63005 • 314.532.5600

1. PERFORMED 50 INSPECTION AND PREVENTATIVE MAINTENANCE.
2. DRAINED ENGINE OIL AND REMOVED OIL FILTER. REPLACED OIL FILTER WITH CH48103 AND SERVICED ENGINE WITH 12 QTS AEROSHELL 15W50.
3. WASHED ENGINE. PERFORMED ENGIN RUN-UP AND LEAK CHECK. FOUND SATISFACTORY.

I certify that this aircraft is airworthy with respect to the work performed and is approved for return to service.
Work Order Number: _97936_____ *Signed:* A/P 496820582

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1999	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-3			PERFORMED ANNUAL INSPECTION +
ACTT	3583		PREVENTATIVE MAINTENANCE.
TACH	1162		CHANGED OIL + FILTER SERVICED
ETT	3583		WITH AEROSHELL 15/50.
TSMOH	130		C/W AD 93-02-05 FUEL INJECTOR
			LINE INSPECTION
			I CERTIFY THAT THIS ENGINE
			HAS BEEN INSPECTED I.A.W. AN
			ANNUAL INSPECTION + WAS FOUND
			TO BE IN AIRWORTHY CONDITION.
			A/P 352502262 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

DATE

19___

PHOENIX AVIATION, INC.

CRSDEXR163D

Performed annual inspection and preventitive maint.

TACH 1032 ACTT 3452 ENG T.T. L 3452 R ____

ENG TSMOH L 0 R ____ PROP TT L 3452 R ____

PROP TSOH L 1653 R ____

PHOENIX AVIATION • 18600 EDISON • CHESTERFIELD, MO 63005

I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE ~~PROPELLER~~ HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

WORKORDER NO. 2637 DATE 9-19-97 DEXR163D

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

N651ED
ENGINE
ENGTT: 3517.5

Thunder AVIATION

DATE: 09/29/98
TACH: 1096.9
HOBBS: 3522.4

Spirit of St. Louis Airport • 18600 Edison Avenue • Chesterfield, Missouri 63005 • 314.532.9200

W/O#: 97547 **TSMOH: 64.9**

1. PERFORMED AN ANNUAL INSPECTION AND PREVENTIVE MAINTENANCE.
2. REPAIRED HEAT MUFF PER AC 43.13-1A.
3. INSULATED EGT PROBE WIRES.
4. C/W AD 93-02-05 BY INSPECTION OF FUEL INJECTOR LINES AND CLAMPS.
5. DRAINED OIL AND REMOVED FILTER. INSTALLED 12 QTS. AEROSHELL 15W/50 AND CH48103 FILTER.
6. PERFORMED ENGINE RUN-UP AND LEAK CHECKED. FOUND SATISFACTORY.

I certify that this engine has been inspected in accordance with an annual inspection per the scope and detail of FAR 43 APP D and was found to be in an airworthy condition.

Authorized signature: A&P 352502262 IA

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

DATE

19__

PHOENIX AVIATION, INC.

CRSDEXR163D

9/19/97
Tach 1032.0
ENGTT 3452.0
TSMOH 0.0

Removed engine due to crack in left crankcase. Disassembled engine for major overhaul. Ferrous parts were sent to ECI for inspection and machining as necessary. (see maint. releases for details.) Phase 1 type crankcase was rejected and replaced with a serviceable type III case from Divco. Cylinder assemblies installed at tach 813.0 were disassembled and inspected and all components found to be within new limits. Cylinder walls were deglazed and new rings fitted. Engine reassembled per Lycoming direct drive O/H manual and applicable service instructions. Lt. magneto impulse coupling inspected per AD 96-12-07 Accessories were visually inspected and reinstalled. C/W AD 93-02-05 fuel injection lines.

Continued...

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

DATE

9__

PHOENIX AVIATION, INC.

CRSDEXR163D

C/W AD 95-26-13 oil cooler hose inspection. Engine reinstalled and serviced with Aeroshell 100 non-detergent oil. Ground run satisfactory. Flight tested 1.3 hours. Parts used in overhaul listed below;

1ea	05K19423S	Oil pump kit
12ea	LW-12186	Nut
12ea	75060	Con-Rod bolt
1ea	73185-1	Gasket set
1ea	PhaseIII	Crankcase assembly
2ea	LW-13885-M06	Bearing
6ea	LW-13683-M06	Bearing
12ea	LW-74309-M06	Bearing
6ea	SL5401-SC	Ring set
4ea	76220-P10	Thru-Stud
1ea	76148	Camshaft

See work order for the rest of the parts.

Continued...

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

PHOENIX AVIATION, INC.

CRSDEXR163D

DATE 19___

AC: N651ED
A/C TYPE:PA31-301
A/C S/N:

ENGINE TT: 3406.9
ENGINE TSOH:1562.

TACH: 986.3
TOTAL TIME: 3406.9
DATE: 97/01/06
HOBBS: 3410.5 ENGINE
PERF. ANNUAL & PREV. MAINT. REPLACED OIL COOLER HOSES.SEE AD LIST.
ADDED 4 QTS OIL. R&R #1 & #5 EXH. GASKETS. R&R #3 ROCKER BOX GASKET.
AD 96-12-07 DUE 3729.4 ACTT. SEE AD LIST. RAN ENGINE PERFORMED LEAK
CHECK, NONE FOUND.

PHOENIX AVIATION • 18600 EDISON • CHESTERFIELD, MO 63005
I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH An Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION
WORK ORDER NO. 9662 DATE 1-6-97 DEXR 163D T Dennis Cooper

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
1-21-97			① Removed & Replaced all four Engine Lord mounts
TACH 986			with kit J-9613-12 upper, & kit J-9613-19 lower.
			Torqued mount nuts to proper torque i/a/w
			Piper m/m.
			I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE. WORK ORDER NO. 9876 SIGNED T Dennis Cooper DEXR163D
6-18-97			① changed oil + filter. Serviced with 12 qts Aeroshell
TACH 1020.2			15W50 oil + ① CH48103 oil filter. Run-up
			+ leak check ok.
			I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE. WORK ORDER NO. 2585 SIGNED Julie Rabello DEXR163D

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1996	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
01-17			1) Completed Annual inspection + preventative maint.
TACH	906.8		2) c/w AD 93-02-05 Fuel inj. lines - ok
ETSMOH	1482.8		3) Changed oil + filter; serviced w/ Aeroshell 15W50
ETT	3327.4		4) Re-sealed crankcase at rear top case seam.
ACTT	3327.4		5) Run up + checked for defects or leaks. OK
			PHOENIX AVIATION • 18600 EDISON • CHESTERFIELD, MO 63005 I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION WORK ORDER NO. 9338 DATE 01-17-96 DEXR 163D David Hace

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1996	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
11/5	TACH	968.0	Changed oil + filter. SERVICED with 12 Qts AEROshell 15W50 oil + ① CH48103 filter. Run up + leak check ok.
			I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE. WORK ORDER NO. 9793 SIGNED Julie Ratliff DEXR163D

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19 95	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
01-09			1) Completed Annual inspection & preventative maintenance
TACH	813.9		2) C/W A.D. 93-02-05 Fuel inj. lines - no
ETS MOH	1389.9		defects found
ETT	3229.4		3) #2 cyl exh stack removed for weld repair - reinstalled
ACTT	3229.4		4) Removed all cyl & sent out for O.H.
			(See attached release tags) - reinstalled cyl.
			5) Replaced induction filter (BA-3)
			6) A.D. 94-01-03 R1 TCM magnetos - D/N/A by
			S/n of mags
			7) C/W A.D. 78-09-07 R3 Impulse Coupling -
			coupling failed - replaced with snap-ring type P/n:
			10-400320
			8) Re-gapped pts of both magnetos to .012" ± .004"
			9) Changed oil & filter; serviced with Aeroshell 65 (mineral oil)

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

(continued next page →)

ENGINE MAINTENANCE LOG

DATE 19 95	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
1-09			(continued from 01-09-95 Entry)
TACH	813.9		10) Ran-up & checked for leaks - no defects
			found.
			PHOENIX AVIATION • 18600 EDISON • CHESTERFIELD, MO 63005
			I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE
			WITH Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION
			WORKORDER NO. 8753 DATE 01-09-95 Steve M. Kessler
			DEXR163D
5-24-95			
Tach	862.5		Changed oil & filter - 15W50 Aeroshell
			Ran engine - no leaks noted
			I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY
			WITH RESPECT TO THE WORK PERFORMED AND
			IS APPROVED FOR RETURN TO SERVICE. DEXR163D
			WORK ORDER NO. 8912
			SIGNED

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1993	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-80			① Performed annual inspection & preventative maint
			② Replaced all sparkplugs
			③ Changed oil & filter - 15w50 Aeroshell
			④ Tightened & safetied dipstick tube
			⑤ Torqued lower case seam bolts to spec
			⑥ Replaced induction air filter
			⑦ Replaced #1, 3 exh gaskets
			⑧ Tightened oil return hose clamps
			TACH 7316.9 AGTT 3237.9 ENG T.T. L 3237.9 R
			ENG TSMOH L 1307.9 PROP TT L R
			@ 1375.9 R
			12800 EDISON • CHESTERFIELD
			AIRCRAFT ENGINE PROPELL RUN
			Annual INSPECT ED TO BE IN
			SIGN
			MECHANIC NO. ~~12000~~ 8156 DATE 12-20-93

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1994	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
2/29			
	TACH 779.3		changed oil + filter, serviced with 11qts 15-50 Aeroshell
			ran & checked for leaks none noted
			[signature] A+P 458398259

11-25-94
TACH: 0811.9

1.) REPLACED VACUUM PUMP WITH NEW UNIT S/N 11AK005586

2.) OPS RUN SYSTEM

I certify this aircraft is airworthy with respect to the work performed and is approved for return to service.

SIGNATURE Eugene M Tufed
A & P 458398019

ENGINE MAINTENANCE LOG

DATE 19 92	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
5-25	Tach 563.0		Changed oil & filter - serviced w/ 12qts.
EngTT	3069		15-50W Cerashell - ran engine & checked
TSMOH	1139		for leaks - none noted
ACTT	3069		
			I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY
			WITH RESPECT TO THE WORK PERFORMED
			AND IS APPROVED FOR RETURN TO SERVICE.
			WORK ORDER NO. 7151
			SIGNED Christopher R. Cyr
			DEXR163D

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19 92	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-3-92			CHANGED OIL + FILTER
TACH	598		COMPLETED ANNUAL INSP + PREV. MAINT.
TSMOH	1174		
ETT	3104		
			PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017
			I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE
			WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION
			WORK ORDER NO. 7548 DATE 12-3-92 DEXR163D C. M
10-12-93			① Changed oil & filter - 15-50W Cerashell
			② Ran engine - no leaks noted
Tach	680		I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY
			WITH RESPECT TO THE WORK PERFORMED AND
			IS APPROVED FOR RETURN TO SERVICE
			WORK ORDER NO. 8076
			SIGNED Chris Cyr
			DEXR163D

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ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	— CONT —		
			PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES FOR A ANNUAL INSPECTION IN COMPLIANCE WITH THE INSPECTION PROGRAM REQUIREMENTS OF FAR 91 ( ) ( ). WORK ORDER NO. 5702 DATE 12-5-90 DEXR163D Eugene M. Dutch
			— END —
9-11-91			1) CHANGED OIL AND FILTER SVCD WITH
TACH: 496.0			AEROSHELL 15W-50
ETT: 3002.0			2) WASHED ENGINE
TSMOH: 1072.0			3) OPS RUN AIRCRAFT AND CHECKED FOR
ACH: 3002.0			LEAKS
			Aircraft airworthy with respect to work
Preformed ⇒			WO# 6461 DEXR163D Eugene M. Dutch

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ENGINE MAINTENANCE LOG

DATE 1991	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-10			1) PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017 I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDI WORK ORDER NO. 6687 DATE 12-10-91 DEXR163D Eugene M. Dutch
TACH:	510.3		
ACH:	3016.3		
ETSMOH	1086.3		
ETT	3016.3		REPAIRS PERFORMED
			1) REAR MUFFLER CRACKED
			2) MUFFLER HEAT SHROUD
			3) CHANGED OIL AND FILTER SVCD WITH 15W-50 AEROSHELL
			4) CLEANED ENGINE, OPS RUN A/C CHECKED FOR LEAKS.
			I CERTIFY THIS A/C IS AIRWORTHY WITH RESPECT TO WORK PERFORMED Eugene M. Dutch A&P 458328019

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1990	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
5-31	TACH	360.8	① OIL Change Svcd with 12qts
	Eng TT	2566.8	15W-50 Aeroshell
	TSNOH	936.8	② Changed OIL Filter
			③ Run up for Leak Check
			I CERTIFY THAT THIS AIRCRAFT IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.
			SIGNED Eugene McIntosh 455398019 FOR DEXR169D

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1990	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-5	TACH	: 443.2	1.) Replaced Exhaust Gaskets on Cyl 1,2,3,4,5,6
	Eng TT	: 2949.2	2.) Retorqued #6 Cyl Base Nuts
	TSNOH	: 109.2	3.) Resealed Bottom Case (RTV) — Oil Leak.
			4.) Replaced Intake Seat Tube.
			5.) Replaced Cyl # 2, 3, ~~4~~ Top Spark Plugs
			6.) Cleaned Ignition Leads. (Springs)
			7.) Repaired Left Baffle By Cyl #6
			8.) Replaced Cyl #1 & 3 Exhaust Studs
			9.) Replaced Crankshaft Seal
			10.) Repaired Heat Muff Nut Plates.
			11.) Adjusted Alt Air to Close Properly.
			12.) Changed Oil & Filter — Serviced with 12qts 15W-50 Aeroshell Oil.
			— (Cont) —

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
9-11-89	Tach 200		Completed annual inspection and preventive maint
eng TT	2706		changed oil & filter, serviced with 12 qts 15-50W
TSMOH	7760		Aeroshell oil. Sealed lower fwd thru
			stud
			Ran engine & checked for leaks, none noted

PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017
I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
CRS-362-66

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-28-89	TACH	307.0	Completed annual insp and Preventative
engtt	2808.0		maint. Replaced 9 spark plugs C/W AD 74-09-07
TSMOH	878.0		Bendix Impulse coupling insp by installing a
			new impulse coupling. C/W AD 86-24-02 Induction
			air filter by installing new air filter.
			changed oil and filter serviced with aeroshell
			15W50 oil Ran eng. and checked for leaks no
			leaks noted

~~PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017~~
I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ~~annual~~ INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION
Philip T. DeVall insp for
CRS-362-66
A&P 4876291-51

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
TACH	1130		1. INSTALLED NEW TACH SHOWING "0000.0"
12-15-88			2. INSTALLED NEW END MUFFLER
Eng TT 2506			3. INSTALLED NEW CNTR MUFFLER
TSMOH 576.0			4. INSTALLED NEW #1 + #3 EXHAUST STACK
			5. INSTALLED NEW MANIFOLD PRESSURE GUAGE
			6. INSTALLED ALL NEW EXHAUST GASKETS
			7. INSTALLED NEW #3 + #5 ROCKER ~~Box~~ GASKETS
			Changed full-flow oil filter & ~~ass~~ oil, serviced
			with 15W-50 AEROSHELL.
			PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017 I CERTIFY THAT THE AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION Dan Emerick N91200660 A&P CRS-362-66

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1989	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
4-14	TACH 100		completed annual insp and preventive
	ENG TT 2606		maint. Welded crack in ~~on~~ ~~on~~ muffler
	ENG TSMOH 676.0		changed oil and filter serviced with
			aeroshell 15W50 oil. Ran engine and leak
			checked no leaks noted.
			PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017 I CERTIFY THAT THE ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION Philip T. DeVall A&P 4184762915 chsp for CRS-362-66

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1988	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
TAch	927.0		changed oil and filter serviced with 12 qt
Hobbs	2175.4		of 15/50 shell oil, compression 1 #78/80 #3 75/80 #5 75/80
TSMOH	373.0		#2 76/80 #4 75/80 #6 76/80
5-25-88			
			PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017
			I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
			PHOENIX AVIATION, INC. CRS 362-66
			P.O. BOX 519
			CHESTERFIELD, MISSOURI 63017

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1988	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
7/27			① CHANGED OIL + FILTER (A/S 15W50)
TACH	1030.1		② INSTALLED 12 EA NEW SPARK PLUGS
TSMOH	476.1		③ REMOVED LEFT MAGNETO + REINSTALLED (SEE A/F LOG)
ACTT	2406.1		④ REPLACED AIR FILTER
ENGTT	2406.1		
			PHOENIX AVIATION • 18216 EDISON • CHESTERFIELD, MO 63017
			I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
			CRS-362-66
8-26			
TACH	1083.2		① INSTALLED OVERHAULED ALT S/N A-56215
TSMOH	529.1		② INSTALLED NEW DIODE IN ALT TAIL LIGHT ASSY.
			I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.
			SIGNED FOR CRS 362-66

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

MCP 49760 9151

ENGINE MAINTENANCE LOG

DATE 1987	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
8-27	tach time	715.0 hours	Performed 100 hr insp and Preventative maint. installed 6 new no 3 Bar gaskets. cleaned and lubed tach drive. all A.D.S current at this time. changed oil and filter serviced with aeroshell 15W50 oil. Ran engine and checked for leaks. no leaks detected.
			PHOENIX AVIATION @ 18216 EDISON @ CHESTERFIELD, MO 63017 I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 100hr INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Philip T. Dukall A&P 487029151

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1987	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
11-23	815.4	tach	Performed 100 hour insp and Preventative maintence. compression check as follows 1 79/80 2 79/80 3 76/80 4 78/80 5 74/80 6 76/80. installed new gasket on no 1 riser changed oil serviced with 15W50 aeroshell. changed filter checked ADs for compliance all AD current at this time. Ran engine and checked for leaks no leaks noted
			PHOENIX [illegible] EDISON @ CHESTERFIELD, MO 63017 I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 100hr INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Philip T. Dukall A&P NO 487029151

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
2-19-87			Completed 15 hr inspection as per, Blue Diamond
TACH	554.	7	engines INC. changed oil and filter serviced with
			12 qts of non-detergent 10/30 shell oil.
			PHOENIX AVIATION, INC. A&P 996416855
			P.O. BOX 519
			CHESTERFIELD, MISSOURI 63017

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 1987	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
5/7	615	6	TACH CHANGED OIL + FILTER
	1991	0	TTAF SERVICED WITH AEROSHELL 100 W OIL
	61	0	TSMOH REPLACED #2 CYLINDER EXHAUST
			GASKETS.
			PHOENIX AVIATION ● 18216 EDISON ● CHESTERFIELD, MO 63017
			I CERTIFY THAT THIS ~~AIRCRAFT~~ ENGINE HAS BEEN INSPECTED IN ACCORDANCE
			WITH 100 HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
			A+P 352502262

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
			BLUE DIAMOND ENGINES, INC. P. O. Drawer 8128 ~~Cherokee County Airport~~ Jacksonville, Texas 75766 TEL [illegible] 8628 US 800-643-4547 214-586-0863
			[illegible] this engine was rebuilt to new limits in accordance [illegible]'s recommendations and overhaul manual and is [illegible] for return for service. Work order number 86-70 pertains to this overhaul.
			Signature Steve Martine
			Certificate # C.R.S. 202-170

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE MAINTENANCE LOG

DATE 19___	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
12-2-86			Installed this Engine on 65TED, Replaced
TACH	536.9		three oil cooler hoses, alternator belt, Engine
hobbs	1773.1		mounts. this Engine was test Run and
			found to be in an airworthy condition for
			Return to service.
			Shay Pratt A+P 499646899
			PHOENIX AVIATION, INC. P.O. BOX 519 CHESTERFIELD, MISSOURI 63017

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE DESCRIPTION

MANUFACTURER Lycoming MODEL IO-540-K1G5

SERIAL NUMBER L-20748-48A DATE OF MANUFACTURE

RATED BHP RPM MANIFOLD PRESSURE

FUEL REQUIRED OCTANE / PERFORMANCE

REGISTERED OWNER Phoenix Aviation

STREET & NO. P. O. Box 519

CITY, STATE, ZIP Chesterfield, Missouri 63017

REGISTERED OWNER

STREET & NO.

CITY, STATE, ZIP

November 12, 1986
WO#86-0070
Tach: 536.0

IO-540-K1G5
L-20748-48A

ENGINE MAINTENANCE LOG

Hobbs: 1773.0

DATE 11-12 19_86	ACCUMULATED TOTALS Hours	10ths	Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
			Items Included: New Spark Plugs, New Ignition Harness, New
			Fuel Pump, Rebuilt Fuel Injector Servo; S/N 59301, Rebuilt
			Fuel Flow Divider; S/N6955, Rebuilt LH Magneto; S/NA262917,
			Rebuilt RH Magneto; S/N A261174, Rebuilt Starter; S/N 4000052,
			Chromed Cylinders. END. Steve Martinez CRS 202-170

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

ENGINE LOG

NOT CURRENT

PIPER

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
Date 4-7-86				#1 75/80 #2 75/80 #3 75/80 #4 75/80 #5 76/80 #6 75/86
I certify that this Engine/~~Aircraft~~ has been inspected in accordance with a ~~100 Hr~~/Annual inspection ~~and determined to be in an airworthy~~ condition. Pertinent information ~~is~~ on file under WO# 7183. Recording Time 431.05 Hrs. Total Time 1809 Hrs. Signed Steve Mooney for Kansas City Aviation Center Inc. Olathe, Kansas CRS 3361				Installed New Air Filter Replaced Plugs REM38E Complied with AD 78-09-07 On Annual Insp
Total To Carry Forward				

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
	Brought Forward →					
10/22/85	TACH	218-		Changed oil - 11 quarts EXXON EE -	James D. Underwell	A&P 426801546
					C.G. Air Center	
11/4/85		TAC 226		INSTALLED MEH PUMP. S/N 08 AA AIRBORN FILLER VACUUM 00 4654. SYSTEM CHECKED OK	OB Lankell	A&P 7575708
					C.G. AIR CENTER	
					GREENVILLE MISS.	
Total To Carry Forward						

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
7/12/85	Brought Forward →		77:00	100 HR INSP. COMPLETE #3=70 #4=72 #5=74 AND CHANGED OIL AND ROCKER BOX GASKETS AND CLEANED FUEL TOLERANCE TIMING CHECKED AIRBOX REPLACED ATTACHED CH.		
				700 DIFF COMP CHK #1=74 #2=74 #6=76 OVER 80. OIL FILTER INSP. CHANGED. LEAKING PUSH ROD SEALS & REPLACED. SPARK PLUGS CLEANED INJECTOR NOZZLES CLEANED. MAG EXHAUST SYSTEM INSP. OK BRC COMPARTMENT AS NECESSARY. ENGINE OPERATIONALLY		
Total To Carry Forward						

"I certify that this aircraft has been inspected in accordance with a BRC V-50 inspection and was determined to be in airworthy condition."

AIR CENTER, INC. P. O. BOX 511, GREENVILLE, MISSISSIPPI

TACH 77:00

A & P No. 1453:00

7/12/85 Date of Inspection

Total

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
	Brought Forward →					
12/10	1351:60 TT			Changed oil with AERO SHELL 40 W & Replaced filter		
1/30/85	1376:00			LEAKS FOUND ALL BLOWER BOX DRAIN LINES AT MACHINE SPLIT SEAM & HIGH COMPRESS		
				LOOSE - TIGHTENED - OIL SEAL		
				SEAL. REPLACED TOP #1		
				SPARK PLUG. REMOVED STARTER, REPLACED		
				BENDIX DRIVE. REPLACED		
				AIR FILTER. REPLACED ALL EXHAUST		
				GASKETS. And MISSING EXH		
				STUDS AS NECESSARY.		
				NOTE - SEE AIRFRAME LOG.	Applied AIR 757019	
				00:00 TACH INST THIS DATE.	AIR CENTER, INC. P. O. BOX 82, GREENVILLE, MISSISSIPPI	
Total To Carry Forward						

ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			
6-19-84	TACH	1293.50		Changed oil & filter added Shell 50 oil Compression 1.94 2.75 3.66 4.76 5.79 6.76 / 80 80 80 80 80 80 Replaced exhaust gaskets on cylinder 1, 3 and 5. Run-up engine all systems operational check normal
				I certify this ~~Aircraft~~/Engine has been inspected in accordance with a ~~100 hr~~/annual inspection and is determined to be in airworthy condition.
				Date 6-19-84 Tach. 1293.50
				Larry Crabtree
				A&P 448-56-2780 I.A.
Total To Carry Forward				

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
	Brought Forward →					
I certify this Aircraft/Engine has been inspected in accordance with a 100hr./annual inspection and is determined to be in airworthy condition. Date 1-8-84 Tach. 1045.8 Larry Crabtree A&P 448-56-2780 I.A.					Larry Crabtree	
1-23-84 TACH 1103.2 Complied with AD 78-09-07 Bendix impulse coupling. Due again at 1603.2 Hrs.					Larry Crabtree A&P 448-56-2780 IA	
				2-16-84 Tach 1148.21 Changed oil + filter. Serviced with Aeroshell 50W. Completed 50/hour inspection		
				Doug Brown A&P 467966090		
				3-22-84 TACH 1193.39 Changed oil + filter added Shell 50W oil, Ran and checked for leaks, checked AD notes thru 84-06		
				Compression 170/80 78/80 62/80 76/80 74/80 75/80		
				I certify this Aircraft/Engine has been inspected in accordance with a 100hr./annual inspection and is determined to be in airworthy condition. Date 3-22-84 Tach. 1193.39 Larry Crabtree A&P 448-56-2780 I.A.	Larry Crabtree	
Total To Carry Forward						

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
10-19-83	Brought Forward →	Tach Time	995.0	Completed 100 Hr Inspection, Drained oil & Serviced with SAE 50 Aeroshell, Replaced oil Filter with CH48119, Cleaned Capped & Tested Spark plugs, Checked Magneto Timing Performed Dry Press Compression Check. #1 cyl 75/80, #2-75/80, #3-78/80 #4-75/80 #5-80/80, #6 80/80 I certify That This Aircraft Has been inspected I.A.W. A 100 Hr. Inspection and was determined to Be Airworthy	William R Cotter A&P 4642605 60	
12-8-84	TACH 1068.50	Installed	new starter, ops check normal	Installed Shell 50W oil		
1-8-84		TACH	1095.0	Changed oil, Changed oil Cleaned gap & tested spark plugs.	AD 78-09-07 R2	due at 1104.0 hrs
Compression test		1 70/80	2 65/80	3 72/80 4 78/80 5 76/80 6 72/80		
Total To Carry Forward		Checked mag timing, lubricated engine and test run. Operational checks all normal				

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
8-18-83	Brought Forward →	TT 892.58		COMPLETED ANNUAL INSPECTION AND SERVICING CHANGED OIL AND FILTER. REPLENISHED WITH 12 QTS AEROSHELL 100W/50WT. REPLACED SPARK PLUGS WITH NEW REM 38E PLUGS REPLACED INDUCTION FILTER. CHECKED MAG TIMING. DIFF. COMP CHECK #1 75/80 #2 76/80 #3 72/80 #4 75/80 #5 70/80 #6 72/80		
				8-15-83 Tac. 892.58. Change oil & Filter. Compression Check #1 75/80 #2 76/80 #3 72/80 #4 75/80 #5 70/80 #6 72/80 Replace inj. air filter. I certify this engine has been inspected as per a 100 hr. inspection and is airworthy. Replace spark plugs with new REM 38E plugs.	Lewis B. Porter	A&P 5149715
				I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE AIR WORTHY DATE 8-18-83 TT 892.58 HRS. JAMES P. TURNER JR. A1450085058		
Total To Carry Forward						

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
06-07-83	Brought Forward →	Tach Time	788.52	Completed 100Hr Inspection Drained oil & Serviced with 12qts		
				SAE50/Grade100 Aeroshell, Checked Magneto Timing, Replaced		
				Oil Filter with OF-51A AC Filter, Cleaned, Gapped &		
				Tested Spar Kplugs, Performed Diff. Press. Compression Check		
				#1 cyl-75/80, #2-75/80 #3-75/80 #4-80/80, #5-80/80, #6 75/80		
				I Certify That This Aircraft Engine was Inspected IAW		
				A100 Hr Inspection & was Determined To Be Airworthy.		
				William R Potter A&P 464260560		
			788.52	Installed Remanufactured Alternator SN 3060240		
Total To Carry Forward				Due to Enlongated Mount hug Holes See Attached	Maint Release	
				William R Potter A&P 464260560		

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certifi
4-12-83	Brought Forward →	Tach Time	687.73	Completed 100 Hr Inspection Gr. 100 Aeroshell, Cleaned Completed Diff. Press. Comp #5-79/80 #6-75/80, Replaced Drained oil & Serviced with 12qts SAE50 Capped plugs, Checked magneto Timing CK #1-75/80, #2-76/80, #3-75/80 #4-76/80 Blown Exhaust Gasket #5 cyl. William R Cotter A&P 1642260560		
Total To Carry Forward						

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
1-6-83	Brought Forward →	604.53	C/W A.D.	78-09-07 IMPOSE COUPLING.		
				CHANGED OIL SERVICED WITH 12 QTS AEROSHELL 80 W. CLEANED		
				AND GAPPED ALL PLUGS. RESET MAG TIMING L+R. DIFF COMP		
				CK #1 75/80 #2 73/80 #3 74/80 #4 76/80 #5 78/80 #6 74/80		
				I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DETERMINED TO BE AIR WORTHY DATE 1-6-83 TI 604.53 HRS. [signature] JAMES P. TURNER JR. AI450085058		
03-25-83	Tach Time 687.53			Replaced Alternator with Remanufactured Prestolite P.N. ALY6421 S.N. 3030527 See Attach Maint Release		
Total To Carry Forward					William R. Cotter A&P 464260560	

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
7-14-82	Brought Forward →		410.2	Completed 100 HR Green Distributor Block engine has been 100 hr inspection airworthy		
9-28-82	TACH	508.26		BENDIX AD. 82-20-01 N/A DUE TO TIME IN SERVICE.		
Total To Carry Forward						

Inspection AD. 82-13-01 NA Not Installed. I certify this inspected in accordance to and was found to be

Paul J. Dotson P.465153768

I CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A ANNUAL INSPECTION AND WAS DETERMINED TO BE AIR WORTHY
DATE 9-28-82 TT 508.26 HRS.

JAMES P. TURNER JR. AI450085058

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
7/6/82	Brought Forward →		364.6	Drained oil & Serviced with 12 qts SAE50 Aeroshell Installed New CH48 110 oil Filter	William R Potter	464260560
7-8-82	Tach Time	4001		Changed oil Serviced with 12 qts Aeroshell SAE 50. Installed New CH48110 oil Filter Cleaned & Capped Plugs. Performed Diff. Press. Compression CK. #1 cyl-75/80, #2-75/80, #3-75/80, #4-80/80, #5-75/80, #6-70/80 William R Potter A&P 464260560		
Total To Carry Forward						

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
12-1-81	Brought Forward →		298.	AD 80-25-07 R1 N/A		
				81-12-06 BENDIX MAG N/A		
				by TYPE		
				81-17-01 BENDIX VIBRATOR N/A		
				NOT INSTALLED		
				81-18-04 LUC. OIL IMPELLER		
				N/A THIS TIME, DUE 2000 hr		
				78-09-07R2 BENDIX IMPULSE		
				DUE AT 500 hr		
				3-22-82 Install new Alternator		
				BAS WO# 10006 IT 328.3	R Gropp Insp.	

~~Oil changed, brand~~ AeroShell ~~weight~~ 65W

Det. ✓ Non-Det. _____

~~Filter replaced, screens cleaned. Differential compres~~sion taken #1 cyl. 74/80 #2 cyl. 78/80 #3 cyl. 77/80 ~~#4 cyl. 78/80 #5 cyl. 77/80 #6 cyl. 76/80~~

Engine operation preflight completed.

I CERTIFY THAT THIS ENGINE/~~AIRCRAFT~~ HAS BEEN INSPECTED IN ACCORDANCE WITH Annual INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

B P Hanlon A+P 1643757 IA

BEAVER AVIATION SERVICE, INC.
REPAIR STATION #114-33
BUTLER, PA 16001

Total To

ENGINE LOG

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
6-4-81	Brought Forward → Tach 100.0	Oil changed, brand Aero Shell weight 50 Det. ✓ Non-Det. Filter replaced, screens [illegible] Differential compression taken #1 cyl. 77/80 #2 cyl. 77/80 #3 cyl. 78/80 #4 cyl. 78/80 #5 cyl. 78/80 #6 cyl. 78/80 Engine operation preflight completed. I hereby certify the Aircraft has been inspected in accordance to a 100 hr. Inspection and was determined to be in Airworthy condition. LEO F. TALBOT A & P No. 2199367 Leo F. Talbot				
Total To Carry Forward						

Date	Engine Time: This Date	Engine Time: Since Major	Recorder Reading	Maintenance and Remarks	Signature	Certificate No.
8-14-81	Tach 198.	Oil changed, brand AERO Shell weight 50 Det. X Non-Det. Filter replaced, screens cleaned. Differential compression taken ~~#1 cyl. 76/80 #2 cyl. 77/80 #3 cyl. 78/80~~ #4 cyl. 78/80 #5 cyl. 78/80 #6 cyl. 75/80 Engine operation preflight completed. AD 81-16-05 SLICK MAGS N/A by ENGINE BENDIX MAGS INSTALLED 1200 SERIES TYPE I CERTIFY THAT THIS ENGINE/AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH 100 hr INSPECTION ~~AND WAS DETERMINED TO BE IN AIR-~~ WORTHY CONDITION. RP Hanlon A&P 1643757 IA				

ENGINE DESCRIPTION

Manufacturer: LYCOMING - WILLIAMSPORT, PENNA.

Serial No. L-20748-48A

Horsepower: 300

Model: IO-540-K1G5

FAA T. C. No. 1E4

Engine Accessories	Serial No.	Weight