

The Standard Engine Log  
SE-1

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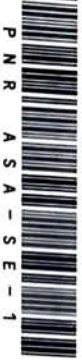
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Engine Record General Information

Manufacturer Lycoming Model IO-540-K165D

Serial L-16170-48A Type Certificate \_\_\_\_\_

This engine is currently installed in aircraft \_\_\_\_\_

Minimum Octane Fuel \_\_\_\_\_ Oil Grade: Summer \_\_\_\_\_ Winter \_\_\_\_\_

Magneto Time \_\_\_\_\_ Point Setting \_\_\_\_\_ Firing Order \_\_\_\_\_

Spark Plug Gap \_\_\_\_\_

Manufacturer recommended overhaul at \_\_\_\_\_ hours

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
2003				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

3-25

MAJOR OVERHAUL OF ENGINE S/N 1-16170-484 Aged Prop  
 STRIKE INSPECTOR - INSPECTED S/N 1381220. C/W AD 91-

14-22 BY INSPECTOR C/W AD 13819649 AND BELTS/VALVES/INTAKE BOSS

O/N A/B-144 APPROXIMATE TAG. SURVIVED CASSETT P/O 0823072 TO BE INSPECTED BY C/W

WHEEL TO C/W AD 2000-18-53. C/W AD 96-12-07 BY INSPECTOR/INSPECTOR/INSPECTOR

.004, D/M 941103. C/W AD 2002-26-01 (AD 93-02-05) BY INSPECTOR/ET. LINES

A/N INSPECTOR/ALTIMETER AS REQUIRED, RETURNED INSPECTOR/REVIEW. C/W SR 5.8 STAC BY

INSPECTOR/CLIMB/TERRAIN/HAUL C/W 33E22144 S/N 128894. C/W SR 12798

BY INSPECTOR/OK ADT-FAULTY/RULES/PHYSIC-13383. C/W SR SI 1442 BY INSPECTOR

W/AD SYDIA D/L AFTER BY-PASS AD 55K21022 505821021 TO POWER D/L FINDER RUP-

TIME. FUEL SEAR/SPL 60835 C/W BY INSPECTOR/AVIATION D/L THREE R.O.#

84368 ALL APPROXIMATE AD'S C/W BY INSPECTOR/CONTINUED

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
2003				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

3-25

CONTINUED  
 ENGINE TEST CELL RUN AND FOUND STRAIGHTAWAY.

HEAVY PARTS LIST AND YELLOW TAGS 'BACK OF THE BOOK'.

MDI. IO-S40-K165D S/N 1-16170-484

Engine has been Overhauled in accordance with Factory Overhaul Manual 160294-7.

All F.A.A. A.D.'s & Factory Service Bulletins have been complied with. All parts have been inspected & have been determined Airworthy for Return to Service.

Ttl. Time 3393.3 T.S.O. 00:00

Pertinent details of the repair are on file at this agency under work order No. 020727

Date March 25 '03

Signed [Signature]

for Columbia Aircraft Services, Inc.

Bloomsburg, Penna.

FAA R.S. JM2R930K

YEAR:	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.)
2003				
4/28	3393.3		3393.3	check all engine in A1-32R-300, U237800 after major oil piston ringing checks + check as needed for piston scoring piston scoring address engine with 100% 100 mineral breakoil check main engine + check check fuel tank seal.
5/15	3415.15		3415.15	Drained oil, refilled with 11 quarts of Aviation oil 86 Mobil oil 100 filter, replaced with CH48109 filter Inpump to spray. Check for leaks New pump of 2000000 36467738

YEAR:	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.)
	3446.9			

I CERTIFY THAT THIS Logbook  
HAS BEEN INSPECTED IN ACCORDANCE WITH  
FAA TYPE INSPECTION AND  
WAS DETERMINED TO BE IN AIRWORTHY  
CONDITION. A.D. SUMMARY TO 05-06  
CHECKED. OPERATIONAL CHECK SATISFACTORY.  
SIGNATURE [Signature]  
FOR REPAIR STIC (SERIAL) 141  
TOTAL TIME 3393.3 TACH 3393.3  
DATE OF INSPECTION 4/28/03

Drained oil, refilled with 11 quarts of  
Aviation oil 86 Mobil oil 100  
filter, replaced with CH48109 filter  
Inpump to spray. Check for leaks  
New pump of 2000000 36467738

YEAR: 2007 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.)
28 JULY	3489.2		95.9	DRAINED + REPAIRED OIL WITH AEROSHELL
<del>28 JULY</del>				100 W PUS CHANGED FILTER WITH CN48109
				RUN UP OK. NO LEAKS FOUND
				James H. Rain Comm # 2527007
22 AUG	3530.8			DRAINED + REPAIRED OIL WITH
				AEROSHELL PUS RELEASE FILTER CN48109
				RUN UP OK. NO LEAKS FOUND
				James H. Rain Comm # 2527007

YEAR: 2007 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.)
14 OCT	3575.9		182.6	CHANGED OIL WITH 10475 AEROSHELL W 80
				REPAIRED OIL FILTER CN48109 RUN UP
				OK. NO LEAKS FOUND
				James H. Rain Comm # 2525007
11/2/07	3644.5			Changed oil added 11 Quarts Aeroshell
				OKS. Replaced oil filter with CN48109
				Run up OK. No leaks found & m. wheel
				James H. Rain Comm # 25246735

YEAR: 2004  
 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.)

3/31 364.0 270.7 CHANGED OIL ADDED 11 QTS MEROSHELL  
 80W CHANGED FILTER WITH 01048109  
 REVISED NO NOISES FOUND

SMITH  
 2527007  
 Signature: *James McPhee*

4-30-04 369.4 298.1 DRAWD ENGINE OIL, REMOVED OIL FILTER. INSTALLED  
 NEW CHAMPION OIL FILTER PIN CH48109 AND 11QTS OF AEROSHELL 100 PLS.

INSTALLED ALL NEW CHAMPION SPARK PLUGS PIN PHM 385. INSTALLED OIL  
 PROP GOVERNOR PIN F4-118B SN 18810, ADJUSTED THE GOVERNOR LOW PITCH

SETTING WITH TRUE TACT. (LOW AD 95-24-10 PRECISE FLIGHT VACUUM SYSTEM.  
 STRAND BY PER AREA (B1), (B2), (LOW AD 2002-26-01 LYCOWING)

Fuel Line: Inspr, Per SB 342 D. - COMPRESSOR. 1) 77 2) 78 3) 75 4) 76  
 5) 75 6) 76. - END - James McPhee PCPTR 2527007

YEAR: 2004  
 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.)

5/26 373.26 339.3  
 CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH  
 ANNUAL TYPE INSPECTION AND

WAS DETERMINED TO BE IN AIRWORTHY  
 CONDITION. A.D. SUMMARY TO 2527007  
 CHECKED. OPERATIONAL CHECK SATISFACTORY.

SIGNATURE: *James McPhee*  
 FOR REPAIR STA. SERIALS: 3191.4  
 TOTAL TIME: 369.4  
 DATE OF INSPECTION: 4-30-04

Signature: *James McPhee*  
 CHANGED OIL + FILTER WITH

C1448109 11 QTS AEROSHELL 100 PLS  
 LUBED CARBES RUND ON NOISES FOUND

Signature: *James McPhee*  
 2527007

YEAR:	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.)
04	37789		38516	DRAINED OIL REMOVED ON FILTER, REPLACED WITH CH 48109 & 11 QTS AERO SHELL PLUS RUN UP OK NO LEAKS FORWARD James H. Davis Comm 252017
AUG 24	3819.5		4262	DRAINED OIL REMOVED FILTER REPLACED WITH CH 48109 & 11 QTS AERO SHELL 100 + RUN UP OK WILL EARNS FORD James H. Davis Comm 252707

YEAR:	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.)
12/9/09	3862.8			Drained oil. replaced with 10 qts AeroShell 480. Removed oil filter - opened filter and inspected nothing remarkable found replaced oil filter with CH 48109 to save \$ a spec. Run up - checked for leaks none found. James H. Davis Comm 316467738

YEAR: <u>2005</u>	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.)
4/1/05	3886.3		3886.3	4/1/05 AD 95-26-13 OK cooler hose Insp Per Para
<del>SMOH</del>	<del>493.0</del>	<del>(31)</del>		<del>Replacement Next Due 4/11 on Tach 4393.3. c/w AD 96-12-07</del>
				<del>Prevent magnet failure Insp. Per SBA 639 &amp; MSB 645 "X" Values</del>
				<del>.042 and .041. c/w AD 2002-26-01 Fuel line Insp. Per Lycoming SB 342 5 9.21.</del>
				<del>Installed All New Rocker cover gaskets P/N 627193. Compression Check</del>
				<del>Readings (D77) (D74) (S75) (478) (S76) (D76) — END</del>
				<del>James K. Merrick</del>
				<del>cert # B272144</del>
				<del>(OVER)</del>

YEAR: <u>2005</u>	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.)
4/1/05	3886.3		3886.3	SMOH 493.0
				Per Formed 500 He Insp of magnets. Installed 2 New
				Point Set Per Tm Master Service Manual Per Para 9.28 Interval
				Time req Per Para 9.1.7. Time To engine 20' B.T.D.C. — END
				James K Merrick cert # B272144

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A.D. SUMMARY TO 05-06 CHECKED. OPERATIONAL CHECK SATISFACTORY.

SIGNATURE James K Merrick

FOR REPAIR STA. B2ER1441

TOTAL TIME: 3886.3 TACH 3886.3

DATE OF INSPECTION 4/1/05

YEAR: 2005	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.)
4/7/05	3886.78			Inspected the fuel pump per loggerying advice bulletin 505. Airtable is 4802. SB 565 Does not apply. I checked part 31046739
5/0/05	3901.7			Drained oil, replaced with Aeroshell W80, 10 qts. Replaced oil filter with CH48109. Opened oil filter, nothing found remarkable. Runng checked ok DSCuback PVT 2692304
7/11/05	3947.2			Drained oil, replaced with Aeroshell W100plus 10 qts. Replaced oil filter, CH48109. Opened oil filter, nothing found remarkable. Runng checked ok DSCuback PVT 2692304

YEAR: 2005	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.)
9/1/05	3992.9			Drained oil, replaced with Aeroshell W100plus, 10 qts. Replaced oil filter, CH48109. Opened filter, nothing found remarkable. Runng checked ok. DSCuback PVT 2692304
9/21/05	4032.3			Drained oil, replaced with Aeroshell W100plus, 10 qts. Replaced oil filter, CH48109. Opened filter, nothing found remarkable. Runng checked ok. DSCuback PVT 2692304



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.)
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2006  
1/26/06 4073.3

3/28/06 4115.4

Drained oil, replaced with 109TS Aviation  
1880. Replaced oil filter with CH48109. Opened  
and inspected oil filter. Nothing remarkable  
found. Runup & test for leaks - none  
found. Checked oil level. 3146.738  
Drained oil, replaced with 109TS.  
Asiole 11 W380. Replaced oil filter  
CH48109-1. Opened oil filter, inspected  
nothing remarkable, Runup, checked for  
leaks - none found  
Sgt Richardson PVT 2692304

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.)
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2006  
4/24/05 4124.05

4/24/05 4124.05

4124.05 checked 95-26-13 oil cooler hoses - Insp per para (X)  
Smoth 730.7 B/D over AT 4/11/05 4393.3. checked 2002-26-01 1 yearing fuel lines  
Insp. per SB 3425 Reg 21. checked 2005-17-06 prevent failures of impulses  
coupling S&HP Riggs Justified. Performed 500 Hour and magwelded Tals S&HP  
Area 1.1 - 1.05 X VALVES. OY3 and .076. Labeled magnets with "A" per para  
2.5g Reset points set. Informal Timing. Drained. Inspected oil. Removed any  
Inspected oil filter. Inspected New Champion oil filter and logs of  
Area still used. checked spark plugs gapped and tested. compressor  
check readings (078) (078) (3) 74 (4) 77 (5) 95 (6) 76 - END  
James K. McRae  
CRS# B26144  
LAWER

YEAR:	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.)
				<p>1 CERTIFY THAT THIS <u>ENGINE</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>AVIATION</u> TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION A.D. SUMMARY TO <u>2006-07</u> CHECKED. OPERATIONAL CHECK SATISFACTORY.</p> <p>SIGNATURE <u>[Signature]</u></p> <p>FOR REPAIR STATION <u>(SERIAL)</u></p> <p>TOTIN TIME <u>4124.05</u> TACH <u>4124.05</u></p> <p>DATE OF INSPECTION <u>4/20/06</u></p> <p><u>Smith 730.17</u></p>

YEAR:	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.)
<u>2006</u>	<u>4166.0</u>			<p><u>Oil</u> <u>oil</u> - replaced with <u>10.6 Q</u> <u>Castrol AD100</u>. Replaced oil filter with <u>CH48109-1</u> - torqued to spec. <u>Propeller</u> <u>oil</u> <u>filter</u> <u>element</u>. Nothing remarkable found. <u>Oil</u> <u>cap</u> - check for leaks - none found. <u>Oil</u> <u>check</u> <u>with</u> <u>316467738</u> <u>oil</u>. <u>Oil</u> <u>replaced</u> <u>with</u> <u>10.1</u> <u>Castrol</u> <u>AD100</u>. Replaced oil filter with <u>CH48109-1</u> torqued to spec. Inspected <u>oil</u> <u>filter</u> <u>element</u>. Nothing found of concern. <u>Run-up</u>, checked for leaks - none. <u>DC</u> <u>Richardson</u> <u>PVT</u> <u>2692304</u></p>
	<u>4024.9</u>			

YEAR: 2007	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.)
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1-8	4282.84		00:00	MAJOR OVERHAUL OF ENGINE S/N L-16170-48A APPROX DISASSEMBLY FOR SAVED COMPONENTS. S/N AD 2002-26-01 FUEL LOS. LINES INSPECTED AND CLEANED AS REQUIRED. FUEL INLET VALVE REPAIRS. S/N AD 2005-12-21 (AD 92-12-07) BY MAINTENANCE LOG. BEARING ON PISTON S/N 941103, 'X' BEARING 1009 'W' BEARING S/N 715. S/N AD 2004-10-14 (S/N 91-14-22) BY MAINTENANCE (S/N 91-14-22) S/N 1379449 AND REINSULATED WITH NEW BOLT S/N 408-144. TAPERED AND SERVICED PER S8475. BENT MEASURED ON FUSEL, AD-2002-02-07 TO BELOW MINIMUM BY INSPECTOR. QUOTE S8578C BY MAINTENANCE ON TEND. CONTACT VALUE S/N 53622144 S/N 128544. FUEL SEEN S/N 60935. DISCHARGED BY ALSTHE AIRCRAFT MAINT, INC. S/N 588571, AD 78-23-10, AD 79-04-05, S8858584, 8788, AD 83-22-04 AND AD 77-25-05 ON THREE P/O # 28801. ENGINE TEST CELL RUN AND FOUND SATISFACTORY. TRAVELLED FROM ZEO FROM LIST AND YELLOW TAGS BACK DE LOS RACK
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YEAR: 2007	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.)
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1-8	4283.84	Completed		
Mdl. TO-540-1615D S/N L-16170-48A				
Engine has been overhauled in accordance with Factory Overhaul Manual 60294-7.				
All F.A.A. A.D.'s & Factory Service Bulletins have been complied with. All parts have been inspected & have been determined Airworthy for Return to Service.				
Ttl. Time 4282.84 T.S.O. 00:00				
Searnsburg, Penna. FAA R.S. JM2R930K No. 022341 Date Jan/8 J. M. Smith J. M. Smith				



YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
2007				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

4/18/07 4312.78 / 4312.78  
 REMOVED ALL SPARK PLUGS, CLEANED, GAPPED, AND TESTED. INSTALL

3 MONTH 29.94 NEW ENGINE  
 AIR FILTER P/N BA-3. OIL AD 95-26-13 OIL COOLER HOSES PER

PARA (A)(1) PARA (b) APPLICATION DUE 4/11 OR 4333.3 OIL AD 2002-26-01 LYCOMING FUEL

LINES TOP PER SB342E PAGE 21. CHECKED MAGNETO TIMING AD 2005-12-06

INPUTS - CUPHY TOP DUE AT 4782.84. COMPRESSOR CHECK RODDINGS -

OTS Q72 Q79 Q78 Q75. - EUD - P/N K NEEDS -

5/8/07 4331.5  
 CRST# B2001443

Drained magneto oil replaced with 11 L

Castrol AD-100 Lycoming oil filter with

Champion CH48109-1 Trencher so core. Magneto  
 oil filter filter element. Nothing remarkable found  
 on inspection for leaks, - you found 2 in wheel  
 P/N 3192181

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
2007				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

8/7/07 4377.5  
 Drained oil, replaced with 11 L.

Castrol AD-100. Replaced oil filter

Champion CH48-109-1. Torqued to

spec. Inspected old oil filter,

nothing remarkable found. Ramp

performed checked for leaks, none

found Denis S. Ruben

PVT 2692304

Drained oil, replaced with 11qt. Castrol

AD-100. Replaced oil filter, Champion CH48-109-1  
 Torqued to spec. Inspected old oil filter nothing  
 found. Ramp, Vad ok. Denis S. Ruben  
 PVT 2692304

YEAR:	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.)
2007	44649			Drained oil & replaced with 51. Castrol AD 100, 5 qt. Aeroshell WBS. Replaced oil filter CH48109-1. Torqued fessac. Inspected old oil filter nothing remarkable found. Runup checked fuel tanks, none found. Band changed - PVT 2692304 Drained oil & replaced 51. Castrol AD 100 5qt Aeroshell WBS. Replaced oil filter CH48109-1. Torqued fessac space. Inspected old oil filter, nothing remarkable found. Runup checked OK. Oil & filter replaced PVT 2692304

YEAR:	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.)

**LANDMARK AVIATION**  
 1265 Southville Road  
 Rochester, NY 14624  
 Tel (585) 235-3880 FAX (585) 328-3429  
 CRS VV2R257L

N 22780 Model PA-32R-300 S/N 32R-7780239 Tach 4503.08  
 Accomplished Emergency AD 2008-06-51, by inspection with no defects noted at this time. IAW  
 Emergency AD 2008-06-51 and Precision Airmoive LLC Service Bulletin #PPRS-107

This aircraft and/or component has been repaired and/or inspected in accordance with  
 current F.A.A. Regulations and was found to be in an airworthy condition with respect  
 to the work performed; and is approved for return to service.

Signed Ralph E. Reis Jr.  
 Ralph E. Reis Jr., A&P/ Inspector  
 W/O S005877 Date March 18, 2008

YEAR: 2008  
 RECORDING TACH TIME: 452665  
 TODAY'S FLIGHT: 243.81  
 TOTAL TIME IN SERVICE: 4526.65

YEAR:   
 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.)

5/13/08  
 452665  
 243.81  
 4526.65

by re-adding  
 in engine 26-01 Amend # 39-12986 Fuel

Cleaned, gapped and retaked spark plugs.

Injection lines by visual inspection. IAW

Checked magnets to engine timing.

SPRING 2008

Removed Prestolite Starter, MW NZ 4218,

Compression test: 1. 76/80 2. 75/80 3. 76/80

SW A12438. Installed FAA-PMA SkyTech

over →

Starter, MW 149NL. See wtl & bal Form

over →

448 5/15/08

over →

Resealed Reiff heater pad under clamp on

over →

# 6 cylinder

over →

Pad # 6 cylinder baffle as needed.

over →

Replaced pushrod tube seals on #4 & #6

over →

cylinders.

over →

Repaired LH oil cooler baffle bracket

over →

over →

over →

YEAR: \_\_\_\_\_  
 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.)

VERIFY THAT THIS Engine  
 HAS BEEN INSPECTED IN ACCORDANCE W/A  
Annual TYPE INSPECTION AND  
 WAS DETERMINED TO BE IN AIRWORTHY  
 CONDITION. A.D. SUMMARY TO 2009-08  
 CHECKED OPERATIONAL CHECK SATISFACTORY.  
 SIGNATURE [Signature]  
 FOR REPAIR STA. SERIAL# [Blank]  
 TOTAL TIME 4526.65 TACH 4526.65  
 DATE OF INSPECTION 5/13/08

YEAR: 2008  
 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 5/28 4544.7  
 Drained oil & replaced with 11qt  
 Aeroshell w/100plus. Replaced with  
 Filter CH48109-1. Torqued to spec.  
 Inspected old filter, nothing remarkable  
 found. Ringup checked ok no leaks  
 David S. [Signature] PVT 2692304  
 Drained oil and replaced with 11qt Aeroshell  
 w/100+. Replaced filter. Rechecked with  
 CH48109-1 Torqued to spec. Checked oil  
 filter. No more. Nothing remarkable found  
 Ringup. Checked for leaks. No more found  
 [Signature] PVT 3192181



YEAR:	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.)
2009	9/21	4627.3		Drained oil & replaced with 11qt. Aerocool W1000. Removed filter, replaced with CH48109-1. Torqued to spec. Inspected old filter, nothing remarkable found. Pump checked ok, no leaks. Did 211 PWTZP230. 26/09 4627.3 Drained oil & replaced with 11qt. Aerocool W80. Removed filter, replaced with CH48109-1. Torqued to spec. Inspected old filter, nothing remarkable found. Pump checked ok, no leaks. Did 211 PWTZP230

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN	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.)
				<p>N2278Q PA32R-300 Serial # 32R7780239 Complied with AD 95-26-13, oil cooler hose inspection per Paragraph (1)(1). Paragraph (b) replacement due April 2015 or 5312.78 total time. Complied with AD 2008-14-07, prevent failure of fuel injection lines per Lycoming SB342E, Page 21, Diagram # 17. Complied with AD 2009-02-03, prevent lean running engine per Precision Air motive SB PRS-107, Revision 2, Paragraph (g). Installed new gasket. Installed new engine air filter element (BA3). Complied with 500 hour magneto inspection per MSB 645. Impulse Coupling X values. 044/.046. Installed new point sets in each mag. Set "E" gap. Checked coil and condenser values, all within limits. Reinstalled magnetos to engine, timed to 20° BTC. Installed new fuel injection line, #1 cylinder (Part # LW12098-0-210). Installed new oil quick-drain. Compression: 1)77, 2)76, 3)78, 4)75, 5)79, 6)78</p> <p>Service Order No. 56646 Dated: 5/21/09</p> <p>Signed: <u>Paul K. Meacham</u> FAI Approved Repair Station No. B2ER144J Boshart Enterprises and Aircraft Services, Inc.</p>
				<p>Total time: 4703.23 Tach: 4703.23</p> <p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH <u>Annual</u> TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A.D. SUMMARY TO <u>2009-09</u> CHECKED. OPERATIONAL CHECK SATISFACTORY.</p> <p>SIGNATURE: <u>Paul K. Meacham</u> FOR REPAIR STATION B2ER144J TOTAL TIME: <u>4703.23</u> TACH: <u>4703.23</u> DATE OF INSPECTION: <u>5/21/09</u> <u>SMOH 420.39</u></p>

YEAR: 2009	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.)
5/26	47126			Drained oil, Replaced with 119 Quicks W100T removed oil filter replaced with CH48109-1 Torqued to spec. Inspected old oil filter element. Nothing remarkable found. Runp checked for leaks, none found. Drain checked with 3192181 Drained oil Replaced with 119 Qrs Aeroshell W100T. Removed oil filter replaced with CH48109-1 Torqued to spec. Inspected old oil filter element Nothing remarkable found. Runp checked for leaks, none found. DSR: J. J. J.
5/5	4756.2			

YEAR: 2009	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.)
11/15	4801.1			Drained oil. Replaced with 119 Qts. Aeroshell W80. Removed oil filter replaced with CH48109-1. Torqued to spec. Inspected old filter element, nothing remarkable found. Runp checked for leaks, none found, Drain checked with POT 2692304
02/03/10	4850.1			Oil change with 9qt. Aeroshell W100T, CH48109-1 oil filter see aircraft logbook for formal entry. DSR: J. J. J. 2692304
02/12/10	4890.4			Oil change with 9qt. Aeroshell W100T, CH48109-1 oil filter see aircraft logbook for formal entry. DSR: J. J. J. 2692304

YEAR:	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.)

USAirports Flight Support 1265 Scottsville Road Rochester, NY 14624 UG6R0850  
 LOG ID# 621 29-April-2010 WOH# 3680/1 ACTT 4932.0  
 N2278Q S/N 32R-7780239 PIPER PA 32R-300 TACH 4932.0 TSMOH 649.2 Pg 1 / 2

DISCREPANCY: Annual Inspection due  
 ACTION: I certify this engine has been inspected IAW an annual inspection and was determined to be in atworthy condition. Performed and completed AD research up to and including 2010-09 from Tdata.

DISCREPANCY: Compression check due  
 ACTION: Performed compression check and readings as follows: cylinder #1: 72/80, cylinder #2: 73/80, cylinder #3: 77/80, cylinder #4: 78/80, cylinder #5: 80/80, cylinder #6: 78/80.

DISCREPANCY: Comply with recurrent AD 08-14-07. Inspection of fuel injector lines.  
 ACTION: Complied with AD 08-14-07, prevent failure of fuel injector lines per Lycoming SB 342E page 21, diagram #17, no defects noted at this time. next due @ 5030.9 ACTT.

DISCREPANCY: Comply with recurrent AD 2009-26-12. Inspection for ECI cylinders.  
 ACTION: Complied with AD 09-26-12 and found to be N/A by Lycoming cylinders installed.

DISCREPANCY: comply with recurrent AD 76-07-12. ignition switches  
 ACTION: Complied with AD 76-07-12 Bendix ignition switch test per paragraph (a-d), no defects noted at this time. next due @ 5030.9 ACTT.

DISCREPANCY: comply with recurrent AD 09-02-03, inspection of fuel servo plug gasket  
 ACTION: Complied with AD 09-02-03, prevent lean running engine per Precision Airotive SB PRS-107, revision 2, paragraph (g) new gasket previously installed, no defects noted at this time. Next due @ next oil change or 4980.9 ACTT whichever occurs first.

YEAR:	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.)

USAirports Flight Support 1265 Scottsville Road Rochester, NY 14624 UG6R0850  
 LOG ID# 621 29-April-2010 WOH# 3680/1 ACTT 4932.0  
 N2278Q S/N 32R-7780239 PIPER PA 32R-300 TACH 4932.0 TSMOH 649.2 Pg 2 / 2

DISCREPANCY: customer requests oil sample  
 ACTION: obtained oil sample for customer and placed oil sample in forward baggage.

DISCREPANCY: various oil lines chaffing  
 ACTION: Resecured all oil lines as required. No defects noted at this time.

DISCREPANCY: Engine requires cleaning  
 ACTION: Washed engine as required.

DISCREPANCY: Engine driven oil pump RH oil line seeping at upper B-nut to pump fitting.  
 ACTION: Disconnected oil line for L/H oil Cooler (Pressure Side) at oil pump fitting. Visually inspected B-nut for oil line & fitting on oil pump. No defects noted. Re-connected oil line. No leaks noted.

DISCREPANCY: #3 Cylinder Intake Pipe Loose.  
 ACTION: Replaced #3 Cylinder Intake Pipe Gasket.  
 Items approved for return to service. Pertinent details are on file at this repair station under the work order mentioned above.

CRS UG6R0850 Darrel D. Ferguson Date 4-29-2010

YEAR:	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.)
2010	4907:31			
6/17/14	4907:31			<p>Drained oil. Replaced with 21 qts          Synrel 4100. Replaced oil filter          Replaced with CH 48109-1. Traced to          spec. Inspected oil pan filter &amp; vent          boots &amp; resealed. Stowed. Low up          checked for leaks. More forward.          Synrel 4100 added. AD check at J. M. Store          Buirt 3192181</p>
7/27	5011:4			<p>Drained oil. Replaced with 11 qts Synrel          4100. Replaced oil filter. Replaced with          CH 48109-1. Traced to spec. Inspected oil          filter &amp; vent. Nothing remarkable present</p>

YEAR:	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.)
2010				
9/18	5055:9			<p>Low up - checked for leaks. More forward          Synrel 4100. Replaced oil filter &amp; vent          Buirt 3192181</p> <p>Drained oil. Replaced with 11 qts Synrel          4100. Replaced oil filter. Replaced          with CH 48109-1. Traced to spec. Inspected          oil filter &amp; vent. Nothing remarkable          present. Low up checked for leaks - more          forward. Synrel 4100. Replaced          Buirt 3192181</p>

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
				<p>CANANDAIGUA AIR CENTER, LLC            2450 Brickyard Road - Canandaigua, NY 14424 - 585-393-1470            DATE: 05-16-11 N78AA            TACH: 5086.2 TTIS: 5086.2 SMOH: 0803.4 TTE: 5086.2            Lycoming 10-540-K1G5D Serial Number: L-16170-48A            Comp. Check #1 72/80 #2 76/80 #3 76/80 #4 77/80 #5 78/80 #6 76/80            Drained engine oil and replaced with 12 Qts. AeroShell 15W 50.            Inspected screen and filter for contaminants, none found.            Replaced filter with a CH48109-1.            CW AD # 08-14-07 Fuel Inj. Line by Inspection, Satisfactory, Next Due: 5186.2            Engine Run-Up OK, Oil Temp. and Pressure Normal No Leaks.</p>
				<p>N78 number of Technician or Repair</p>

I certify that this Engine has been Inspected I/AAW an ANNUAL INSPECTION using a Piper Service Manual and a checklist and it is determined to be in an Airworthy Condition. AD's Checked Thru 2011-08.

*[Signature]*  
 C.P. Schubert AP 795489761A

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
2011	51266			<p>Drained oil, replaced with 11 qt. Aeroshell 15W50. Removed oil filter. Replaced with Champion CH48109-1 Torqued to spec. Inspected oil oil filter, nothing remarkable found. Run up, Vrod for leaks, none found. Ignition switch AD complied with, ok David S. PVT 2692304</p>
	516350			<p>Drained oil, replaced with 11 qt. Aeroshell 15W50. Removed oil filter. Replaced with Champion CH48109-1</p>

**YEAR:** 2011  
**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.)

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
				Forged to spec. Inspected old oil filter for nothing remarkable found
				Run-up V ed for 10cks, 30 over and
				Inspected AP comp load in (H) rack
				DVT 2692304
9/21	5204.4			Drained engine oil Replaced with <del>110</del> AeroShell 15450. Rechecked oil filter
				Replaced with CH48109-1 in quad to spec.
				Replaced rocker cover gaskets - Matthews
				Comradable ground. Run up checked for
				Stroke and ground. Ignition (S) checked OK
				DVT 2692304

**YEAR:**  
**RECORDING TACH TIME**  
**TODAY'S FLIGHT**  
**TOTAL TIME IN SERVICE**  
**2450 Brickyard Road - Canandaigua, NY 14424 - 585-393-1470**  
**CANANDAIGUA AIR CENTER, LLC**  
**DATE: 02-09-12 N78AA**  
**TACH: 5221.8 TTIS: 5221.8 SMOH: 0939.0 TTE: 5221.8**  
**Lycoming I0-540-K1G5D Serial Number: L-16170-48A**  
**Comp. Check #1 76/80 #2 75/80 #3 76/80 #4 74/80 #5 79/80 #6 76/80**  
**Drained engine oil and replaced with 12 Qts. AeroShell 15W 50.**  
**Inspected screen and filter for contaminants, none found.**  
**Replaced filter with a CH48109-1.**  
**CW AD # 08-14-07 Fuel Inj. Line by Inspection, Satisfactory, Next Due: 5321.8**  
**Replaced rocker box cover gaskets to cylinder #'s 6, 4, 1 and 3**  
**Engine Run-Up OK, Oil Temp. and Pressure Normal No Leaks.**

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
				I certify that this Engine has been Inspected I/AAW an ANNUAL INSPECTION using a Piper Service Manual and a checklist and it is determined to be in an Airworthy Condition. AD's Checked Thru 2012-02.
				<i>[Signature]</i> C.P. Schubert AP 79548976IA

N78A  
 or Repair

YEAR: 2012	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.)
5/23	52667			Drained engine oil, replaced with Aeroshell 15W50, 11qts. Removed oil filter, replaced with Champion CH48109-1, torqued. Inspected old oil filter, nothing remarkable found. Run up, checked for leaks, none found. David SDBL PVT 2692304
7/24/12	53113			Drained engine oil, replaced with Aeroshell 15W50, 11qt. Remove oil filter, replaced with Champion CH48109-1, torqued. (cont'd)

YEAR: 2012	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.)
9/10/12	53545			to spec. Inspected old oil filter, nothing remarkable found. Run up checked for leaks, nothing found. David SDBL PVT 2692304
				Drained engine oil, replaced with 11qt. 15W50 Aeroshell. Remove oil filter, replaced with Champion CH48109-1, torqued to spec. Inspected oil filter, nothing remarkable found. Run up, checked for leaks, none found. David SDBL PVT 2692304

N78AA Tach: 5370.54 Engine TT; 5370.54 SMOH; 1087.74

**ENGINE**

Drain engine oil, remove and inspect oil filter. Install new Champion CH48110-1 oil filter and 11 qts of Aeroshell 15W50 oil.  
 C/W AD2011-26-04 prevent failure of fuel lines per para (h)(1) and Lycoming SB342F. Replace rocker box gasket on #2 cylinder.  
 Tighten alternator belt and safety wire bolt.  
 Compression Test: 1)79 2)78 3)78 4)78 5)78 6)74

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this station under Service Order No. 60220 Dated: 4/9/13

*John R. Merz*

FAA Approved Repair Station No. B2ER144J  
 Boshart Enterprises and Aircraft Services, Inc  
 Genesee County Airport Batavia, N.Y. 14020

**Ins, Tests, Repairs and Alterations**  
 (Name, Rating and Certificate Number of Technician or Repair the specific entries.)

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  
 A.D. SUMMARY TO 2013-04 CHECKED.  
 OPERATIONAL CHECK SATISFACTORY.  
 SIGNATURE: *John R. Merz*  
 FOR REPAIR STATION B2ER144J  
 TOTAL TIME: 5370.54 TACH: 5370.54 SMOH  
 DATE OF INSPECTION: 4/9/13 1087.74

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
2013	5413.1			Drained engine oil. Replaced with 11 qts Aeroshell 15W50. Replaced oil filter. Replaced with CH48109-1 to avoid to spec. Replaced old oil filter element with this new one. Checked for leaks. Replaced old oil filter element with nothing reasonable found. Runup checked for leaks. None found.
2014	5459.9			Drained engine oil. Replaced with 11 qts. Aeroshell 15W50. Replaced oil filter. Replaced with CH48109-1, torqued to spec. Inspected old oil filter element, nothing reasonable found. Runup checked for leaks. None found.
3/11				

OSD: [unclear] PVF 2692304



N73AA Tech; 5460-44 Engine TT; 5460-44 SMOH; 1177.64

ENGINE

C/W AD2011-26-04 Lycoming Fuel Line Inspection per para (h)(1) and

Lycoming SB342F Diagram #17. Install new fuel injection line on the #5

Cylinder p/n LW12098-0-140. Install new alternator belt P/N 73965-014.

Reinstall propeller and torque per Piper Service Manual.

Patch engine baffles by right and left oil coolers.

Compression Test: 1)78 2)77 3)76 4)76 5)78 6)77

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this station under Service Order No. 60688 Dated: 5/2/14

*Jerry K. Merz*

FAA Approved Repair Station No. B2ER144J

Boshart Enterprises and Aircraft Services, Inc.

Genesee County Airport Batavia, N.Y. 14020

ations To  
iber and the Approving Agency

I CERTIFY THAT THIS Engine HAS BEEN INSPECTED  
IN ACCORDANCE WITH An ANNUAL TYPE INSPECTION  
AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  
A.D. SUMMARY TO 2014-07 CHECKED.  
OPERATIONAL CHECK SATISFACTORY.

SIGNATURE: *Jerry K. Merz*

FOR REPAIR STATION B2ER144J  
TOTAL TIME: 5460.44 TACH: 5460.44  
DATE OF INSPECTION: 5/2/14

Reference of Major Repairs and Major Alterations To  
FAA Form 337 by Date, or to the Work Order by Number and the Approving Agency

YEAR: DATE	TOTAL TIME IN SERVICE	Reference of Major Repairs and Major Alterations To FAA Form 337 by Date, or to the Work Order by Number and the Approving Agency
2014 7/27	55078	Drained engine oil. Replaced with 11 qts Aeroshell 15W50. Removed and replaced oil filter with Champion CH48109-1 oil filter, torqued to spec. Inspected oil filter element, nothing remarkable found. Ramp checked for leaks, none found. Band STBk PVT 2692304 Drained engine oil. Replaced with 11 qts Aeroshell 15W50. Replaced oil filter with Champion CH48109-1. Torqued to spec. Inspected oil filter element. Nothing remarkable found. Ramp checked for leaks. None found. Private 3192181
2013	55529	

**N78AA Tach; 5568.85 Engine TT; 5568.85 SMOH; 1286.05**

**ENGINE**

Install all new silicone rocker cover gaskets.

C/W AD2011-26-04 fuel injection line inspection per para (h)(1) and

Lycoming SB342F diagram #17. Install 4 new dams on fuel injection lines

per diagram

Clean, gap, and test spark plugs

Check magneto timings to engine

Patch engine baffles on #5 & #6 cylinders

Patch exhaust shroud in two places and reinstall

Compression Test 1774 2778 3775 4774 5770 6774

The aircraft and/or component identified above was repaired and

inspected in accordance with current regulations of the Federal

Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this station under

Service Order No. 61074 Dated: 4-20-15

*James K. Merend*  
 FAA Approved Repair Station No. B2ER144J  
 Boshart Enterprises and Aircraft Services, Inc.  
 Genesee County Airport Batavia, N.Y. 14020

**Operations To**  
 member and the Approving Agency

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I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED  
 IN ACCORDANCE WITH FAA AD2011-26-04 TYPE INSPECTION  
 AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.  
 A.D. SUMMARY TO 2015-06 CHECKED.

OPERATIONAL CHECK SATISFACTORY.

SIGNATURE: *James K. Merend*

FOR REPAIR STATION B2ER144J

TOTAL TIME: 5568.85 TACH: 5568.85 SMOH 1286.05

DATE OF INSPECTION: 4/20/15

**Airworthiness Directives**  
 Chronological Listing of Compliance and Method of Compliance

YEAR: DATE	A.D. NUMBER	TOTAL TIME IN SERVICE	Airworthiness Directives Chronological Listing of Compliance and Method of Compliance
2015 4/20/15	TACH	5569.5	Ran engine up and warmed. Checked engine idle speed and mixture. Adjusted engine idle and mixture setting for a 50 Rpm rise. END — <i>James K. Merend</i> — CRST# B2ER144J.
8/1	FAA	5597.6	Repaired engine oil replaced with 71 qts. Rechecked oil level. Rechecked oil filter with Champion 4899-1 Tongue to spec. Unsuccessful. Oil filter element nothing remarkable found. Rechecked for leaks none found. <i>James K. Merend</i> CRST# B2ER144J

N78AA Tach: 5630.82 Engine TT: 5630.82 SMOH: 1348.02

**ENGINE**

Perform a 500 hr inspection on magneto D6LN-2031 P/N 10-382560 S/N 944103. Check coil and condenser values. Install a new carbon brush P/N 10-160844 and point set P/N 10-382585 and set "E" gap. C/W AD2005-12-06 prevent failure of magneto impulse coupling assembly. Inspected per TC < MSB645, no defects noted X value .046/047. C/W AD2015-19-07 external fuel injection lines per para (c)(1)(ii) and Lycopring SB 342G. Tighten all oil return hose clamps. Clean fuel screen at throttle body. Install new muffler for #1 & #2 cylinder P/N 67517-00 Compression Test: 1)78 2)77 3)74 4)78 5)78 6)77

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this station under Service Order No. 61510 Dated: 4/27/16

*James R. Merrett*  
 FAA Approved Repair Station No. B2ER144J  
 Boshart Enterprises and Aircraft Services, Inc.  
 Genesee County Airport Batavia, N.Y. 14020

d Method of Compliance

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

A.D. SUMMARY TO 2016-06 CHECKED. OPERATIONAL CHECK SATISFACTORY.

SIGNATURE: *James R. Merrett*  
 FOR REPAIR STATION B2ER144J

TOTAL TIME: 5630.82 TACH: 5630.82  
 DATE OF INSPECTION: 4/27/16

YEAR: DATE	A.D. NUMBER	TOTAL TIME IN SERVICE	Airworthiness Directives Chronological Listing of Compliance and Method of Compliance
2016 6/3	Tech	56385	<p>Drain engine oil replaced with 11QTS          Kemshell 15W50, replaced oil filter with          Champion 48104-T changed to spec. Rechecked          old oil filter element - nothing remarkable          found. Can up - check back for leaks - none          found. On those 2 drives 372181          Drained engine oil replaced with 11QTS          Kemshell 15W50 replaced oil filter with          Champion 48104-1 changed to spec. Inspected oil          filter element, nothing remarkable found          Can up - check back for leaks - none found          On those 2 drives 372181</p>
10/9	Tech	56780	

N781AA Tach: 5691.71 Engine TT: 5691.71 SMOH: 1408.91

**ENGINE**

CW AD2015-19-07 external fuel injection lines per para (e)(1) and LYcoming SB342G Diagram #19. Type D hoses are installed.  
 Clean, gap, and test spark plugs. Check magneto timing to engine.  
 Clean finger screen at throttle body.  
 Compression Test: 1)78 2)77 3)70 4)76 5)76 6)75

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this station under Service Order No. 61900 Dated: 4-17-17

FAA Approved Repair Station No. B2ER144J  
 Boshart Enterprises and Aircraft Services, Inc.  
 Genesee County Airport Batavia, N.Y. 14020

lines if Compliance

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL TYPE INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. A.D. SUMMARY TO 2017-06 CHECKED. OPERATIONAL CHECK SATISFACTORY.

SIGNATURE: James H. Hertzfeld  
 FOR REPAIR STATION B2ER144J  
 TOTAL TIME: 5691.71 TACH: 5691.71  
 DATE OF INSPECTION: 4/17/17

YEAR: DATE	TOTAL TIME IN SERVICE	Equipment Addition, Removal or Exchange Item	Manufacturer's Name	Model	Serial Number	
						<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
						<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional
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						<input type="checkbox"/> Addition of Optional Equipment <input type="checkbox"/> Removal of Optional Equipment <input type="checkbox"/> Addition of Required-Exchanged for Optional <input type="checkbox"/> Removal of Required-Exchanged for Optional

Notes

# Counterweight

inspection & maintenance

*Boschwert*

12/05/06 COUNTERWEIGHT  
Cust. No. 10192

Terms net 10th

Order No 143383

1 of 1

COLUMBIA AIRCRAFT SERVICES  
301 Airport Rd  
Bloomsburg

PA 17815

COLUMBIA AIRCRAFT SERVICES  
301 Airport Rd  
Bloomsburg

PA 17815

Contact: Scott, Mike  
Phone: (570) 784-3070

SHIP TO

RECOMMENDATION

span

CUSTOMER

Customer's name

INS

Visual & 1

Airplane Papers