US Department of Transportation Federal Aviation Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved OMB No. 2120-0020 2/28/2011 | Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark: USA N993LL	Serial No.: 2220	
	Make: Cirrus Design	Model: SR 22	Series:
2. Owner	Name *(As shown on registration certificate)*: 993LL LLC	Address *(As shown on registration certificate)*: Address 4384 Scray Hill Rd; City De Pere; State WI; Zip 54115-9235; Country USA	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☐	AIRFRAME	———	*(As described in Item 1 above)*	———
☐	☑	POWERPLANT	Continental	IO 550 N	690055
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type / Manufacturer		

6. Conformity Statement

A. Agency's Name and Address

Name: Jim Barker Aviation Resources
Address: Hangar 7 101 Airport Ave
City: Cumberland State: WI
Zip: 54829 Country: USA

B. Kind of Agency

- ☑ U. S. Certificated Mechanic
- ☐ Manufacturer
- ☐ Foreign Certificated Mechanic
- ☐ Certificated Repair Station
- ☐ Certificated Maintenance Organization

C. Certificate No.: 2755069

D. I certify that the repair and/or alteration made to the unit(s) identified in Item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐

Signature/Date of Authorized Individual: Jim Barker July 07, 2015

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in Item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☑ Approved ☐ Rejected

BY

- ☐ FAA Flt. Standards Inspector
- ☐ FAA Designee
- ☐ Manufacturer
- ☒ Repair Station
- ☐ Maintenance Organization
- ☐ Inspection Authorization
- ☐ Persons Approved by Canadian Department of Transport
- ☐ Other *(Specify)*

Certificate or Designation No.: 2755069

Signature/Date of Authorized Individual: Jim Barker July 07, 2015

FAA Form 337 (10-06)

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the appicable airworthiness requirements.

USA N993LL	July 07, 2015
Nationality and Registration Mark	Date

8. Description of Work Accomplished

Removed all 6 original CMI/TCM fuel injectors and installed GAMIjectors kit serial number 24552 as per STC SE09963SC. Kit Part Number TIG 550-12E.

---------- END ----------

[ ] Additional Sheets Are Attached

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time Hrs.	Total Time Min.	Time Since Last Overhaul Hrs.	Time Since Last Overhaul Min.	
11-28-06	26.3				CHANGED OIL + FILTER. SERVICED w/ ARTS AEROSHELL. Phillip Ball A+P 2757996

ENGINE MODEL
IO550N42
ENGINE S/N 030055
REG NO 993LL
WORK ORDER
8135-12-2006

Cirrus Design Factory Service Center
Repair Station No YD5R855Y
4515 Taylor Circle
Duluth, MN 55811
Phone 218-788-3101

DATE 12/28/2006
A/C TSN 63.2
ENG TT 63.2
HUBBS 63.2

Engine Entries

(1) Flight Meter 518 Hrs - Changed engine oil and filter p/n 50857-001, serviced engine with 8 quarts of Aeroshell 15W50 engine oil. Performed particulate inspection on old filter, no discrepancies noted. Performed operational and leak checks with satisfactory results. All work was accomplished IAW CDC AMM 12-10

I have reviewed the file on this aircraft and the accompanying discrepancy forms. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Pertinent details of repair are on file at this Certified Repair Station CRS YD5R855Y

DATE: 12/28/2006 SIGNED: Scott Schelde
Certified Repair Station No YD5R855Y

Work Order: 8135-12-2006
Printed by EBis 3 (datcomedia.com)

2-9-07	100.6				CHANGED OIL + FILTER SERVICED w/ EBIS AEROSHELL 15W50 Phillip Ball A+P 2757996
7-2-07	150.8				CHANGED OIL + FILTER SERVICED W/ ARTS AEROSHELL 15W50 Phillip Ball A+P 2757996
9-27-07	186.7				CHANGED OIL + FILTER SERVICED W/ ARTS AEROSHELL 15W50. INSTALLED STC. DUCHOUD TUBE CYL # 2. Phillip Ball A+P 2757996
10-29-07	198.8		198.8		ANNUAL INSPECTION.
	FLIGHT 178.5				COMPRESSION #1-72 #2-71 #3-70 #4-70 #5-70 #6-70. changed oil and filter serviced w/ 8 QTS Aeroshell 15W50. cut open filter no discrepancy's noted. cleaned and gapped plugs checked screens and timing. Engine inspected per Cirrus SR22 inspection checklist. I certify that this engine has been inspected in accordance with annual inspection and was found to be in airworthy condition IA Phillip Ball 2757996

Date	Total Time		Time Since Last Overhaul		**Engine Service and Maintenance Record** Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward →					
6-10-08	234	00			CHANGED OIL & FILTER SERVICED 8 QTS AL-20 15-50 A&P Philip S Babb 2737996
11/24/08	268	1	268	1	ANNUAL INSPECTION. COMPRESSION #1-71 #2-70 #3-74 #4-74 #5-70 #6-71. CHANGED OIL & FILTER SERVICED WITH 8 QTS AERO 15W50 CUT FILTER. NO DEFECTS NOTED. CHECKED TIMMING. WASHED ENGINE. WIRED CONTROLS. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. Philip S Babb IA 2737996
					Date: 11/12/09 N993LL Hobbs:301.2 ACTT: 280.1 T.S.O :301.2 Annual Inspection Compression, #1-73 #2-70 #3-70 #4-72 #5-74 #6-70. Changed oil and filter serviced with 8 Qts Aeroshell 15w50. Cleaned and gapped plugs, checked timming. Checked fuel and oil screens. Checked Exhaust heat muff. Performed fuel injection Inspection per SID97-3E no adjustments were made at this time. I certify that this engine has been inspected in accordance with an annual inspection and was found to be in airworthy condition. Philip S. Babb A&P 2737996 IA Philip S Babb
11-8-2010	320.4		320.4		ANNUAL INSPECTION COMPRESSION #1-73 #2-70 #3-70 #4-72 #5-74 #6-70. CHANGED OIL & FILTER SERVICED 8 QTS AERO 15-50. CHECKED TIMMING. CLEAN & GAPPED PLUGS. CHECKED FUEL STRAINER. CUT FILTER. NO DEFECTS NOTED. CHECKED EXH MUFF. PERFORMED TCM SID97-3E NO ADJUSTMENTS

Engine Service and Maintenance Record

Date	Total Time Hrs.	Total Time Min.	Time Since Last Overhaul Hrs.	Time Since Last Overhaul Min.	Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Brought Forward →					
					MADE AT THIS TIME. I CERTIFY THAT
					THIS ENGINE HAS BEEN INSPECTED IN
					ACCORDANCE WITH AN ANNUAL INSPECTION
					AND WAS FOUND TO BE IN AIRWORTHY
					CONDITION. [illegible] IA 2737996
11-22-2011	3582		3582		ANNUAL INSPECTION
	T.S.O.	18.3			COMPRESSION #1-73 #2-72 #3 69 #4-72
					#5-75 #6-71. CHANGED OIL & FILTER SERVICED
					E GTS AERO 15-50. CUT FILTER. NO DEFECTS
					NOTED. CHECKED FUEL & OIL SCREENS. CHECKED
					TIMING. CLEANED PLUGS. C/N TCM SID9736
					NO ADJUSTMENTS MADE AT THIS TIME. I CERTIFY
					THAT THIS ENGINE HAS BEEN INSPECTED IN
					ACCORDANCE WITH AN ANNUAL INSPECTION
					AND WAS FOUND TO BE IN AIRWORTHY
					CONDITION. [illegible] IA 2737996
12-7-2012	3591.2		3591.2		ANNUAL INSPECTION
	T.S.O.	20.5			COMPRESSION #1-69 #2-64 #3-74 #4-71 #5-68
AD 2012-10-13	N/A STC NOT INSTALLED				#6-76. CHANGED OIL & FILTER. SERVICED
AD 2012-03-06	N/A NON AFFECTED PART				E GTS AERO 15-50. CUT FILTER. NO DEFECTS
	INSTALLED				NOTED. BORESCOPE VALVES. NO DEFECTS.
					CLEANED & GAPED PLUGS. I CERTIFY THAT
					THIS ENGINE HAS BEEN INSPECTED IN
					ACCORDANCE WITH AN ANNUAL INSPECTION
					AND WAS FOUND TO BE IN AIRWORTHY
					CONDITION - [illegible] IA 2737996

Date	Total Time		Time Since Last Overhaul		**Engine Service and Maintenance Record**
	Hrs.	Min.	Hrs.	Min.	Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Brought Forward →					

Advanced Wings

1501 Narcissa Road
Blue Bell, Pa. 19422
(215)646-0400

Date: 8-12-13
Reg#: N993LL
Tach: 335.4
Hobbs: 361.3

Make: TCM
Model: IO 550 N (42)
Engine S/N: 690055

Engine Entry:

Cirrus Engine Annual Inspection completed using the Cirrus AMM checklist 5-20. Compression check (x/80)1: 61 3: 59 5:59 2: 62 4: 68 6: 58. Master Orifice reading 47. Drained & sampled the oil, removed and inspected oil filter. Checked magneto timing. Cleaned, gapped & tested spark plugs. All AD's current through 2013-16. Adjusted idle set screw.
I certify that this ENGINE has been inspected IAW an Annual Inspection checklist and was found to be in Airworthy Condition.

Joe Budusky
AP 3686133 IA

JET AIR GROUP INC.

1921 AIRPORT DRIVE AUSTIN STRAUBEL FIELD
GREEN BAY, WI 54313
F.A.A. APPROVED REPAIR STATION CRS MZ2R023L

10/31/2013 HOBBS 402.2 TACH 376.3 ENGINE N993LL
CHANGED OIL AND FILTER, FILTER P/N CH48108-1 AND SERVICED WITH 8QTS AS 15W50, INSPECTED OLD FILTER, NO METAL NOTED AT THIS TIME. OIL SAMPLE TAKEN AND SENT OUT FOR ANALYSIS. REPLACED REPLACED ENGINE ALT. AIR SUPPORT TUBE P/N 18293-001. ENGINE GRD. RAN, LEAK CHECKED OK FOR CONTINUED SERVICE.

FOR CRS MZ2R023L
UNDER WO# 10954

JET AIR GROUP INC.

1921 AIRPORT DRIVE AUSTIN STRAUBEL FIELD
GREEN BAY, WI 54313
F.A.A. APPROVED REPAIR STATION CRS MZ2R023L

9/5/14 HOURMETER 461.5 FLIGHT HOBBS 435.6 ETSN 435.6 ENGINE LOG S/N 690055 N993LL

COMPLIED WITH THE 50/100 HR./ANNUAL INSPECTION USING THE CIRRUS SR22 SCHEDULED INSPECTION REPORT AS A GUIDE. CHANGE OIL AND FILTER, FILTER P/N CH48108-1 AND SERVICED WITH 8 QTS AS 15W50. INSPECTED OLD FILTER, NO METAL NOTED AT THIS TIME. OIL SAMPLE TAKEN AND SENT OUT FOR ANALYSIS. COMPRESSION TEST AS FOLLOWS: #1 65, #2 60, #3 70, #4 60, #5 70, #6 60 AND OVER 80. CLEANED/GAPPED/TESTED ALL SPARK PLUGS AND ROTATED. CHECKED MAG TIMING AND ADJUSTED AS REQUIRED. CLEANED AND LUBE CONTROL LINKAGES. ENGINE GRD RAN, LEAKED AND OPS CHECKED. ALL WORK ACCOMPLISHED USING THE MANUFACTURES MAINT. MANUAL AS A GUIDE.

[illegible] ENGINE [illegible] in accordance with a 50/100HR ANNUAL inspection under FAR 91 [illegible] and approved for [illegible] under W/O 11360

[illegible] FOR
JET AIR GROUP GREEN BAY, WI FAA Repair Station MZ2R023L

JET AIR GROUP INC.

1921 AIRPORT DRIVE AUSTIN STRAUBEL FIELD
GREEN BAY, WI 54313
F.A.A. APPROVED REPAIR STATION CRS MZ2R023L

4/2/15 HOBBS 537.3 FLIGHT HOBBS 511.4 ENGINE LOG N993LL

CHANGE OIL AND FILTER, FILTER P/N CH48108-1 AND SERVICED WITH 8 QTS AS 15W50, INSPECTED OLD FILTER, NO METAL NOTED AT THIS TIME. OIL SAMPLE TAKEN AND SENT OUT FOR ANALYSIS. ENGINE GRD. RAN, LEAKED AND OPS CHECKED, OK FOR CONTINUE SERVICE. WORK ACCOMPLISHED USING THE MANUFACTURES MAINT. MANUAL AS A GUIDE.

FOR CRS MZ2R023L
UNDER WO# 11745

July 6th, 2015

N993LL	**Cirrus SR22**	**S/N 2220**	**Flight 564.4 hours**	**Hobbs: 590.4 hours**
Continental	**IO 550 N 42**	**S/N 690055**		

Removed cowling. Reterminated #2 EGT probe. Rerouted #3 and #5 EGT probe wiring to bundle for exhaust clearance. Applied silicone RTV to air gaps in baffle seals. Removed all spark plugs and checked magneto to engine timing, found Left @ +1.7 degrees and Right @ +2.4 degrees from nominal, adjusted both to nominal of 22 degrees BTDC. Removed ignition lead springs, cleaned contacts and silicone boots, installed with new springs. Installed new Tempest URHB32S spark plugs. Replaced A/C drive grommets and bushings with new style. Adjusted low fuel pressure, idle mixture and rpm. Reinstalled cowling. Performed ground run; found satisfactory.

THE AIRCRAFT, ENGINE, PROPELLER AND OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.

JIM BARKER, A&P/IA #2755069
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JET AIR CORP
Attn: JOE MEGNA
1921 AIRPORT DR
AUSTIN STRAUBEL FIELD
GREEN BAY WI 54313
United States

Aircraft: SR22
S/N: 2220
Tail No.: N993LL

Date: 9/27/2014
Engine S/N: 690055
Engine Model: CONT. 550

Values in (parenthesis) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours.
See www.avlab.com/explain for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal | Elevated | High

Sample Date: 9/2/2014
Analysis Date: 9/25/2014
Sample Number: P67
Cylinder Type: steel

TSN/TSO: 435.6
Oil Hours: 59.3
Filter Hours:
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
37.1 (69.1)	5.9 (7.7)	10.9 (14.1)	7.0 (10.5)			7.0 (7.6)	5451 (7070)	2.5 (5.8)		< 0.1 (0.3)	

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

PREVIOUS SAMPLE 1 — SAMPLE APPEARS NORMAL. Send next sample at normal interval. — Normal | Elevated | High

Sample Date: 10/31/2013
Analysis Date: 11/8/2013
Sample Number: P77
Cylinder Type: unknown

TSN/TSO: 376.3
Oil Hours: 40.9
Filter Hours:
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
31.4 (N/A)	8.7 (N/A)	8.5 (N/A)	6.2 (N/A)			5.7 (N/A)	4092 (N/A)	4.5 (N/A)		< 0.1 (N/A)	

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

July 7th, 2015
N993LL Cirrus SR22 S/N 2220 Flight 567.8hours Hobbs: 593.7hours
Continental IO 550 N 42 S/N 690055
Removed top cowling, removed all fuel injectors, installed GAMI nozzles IAW STC SE09963C s/n 24552. FAA form 337 this date
THE AIRCRAFT, ENGINE, PROPELLER AND OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.

JIM BARKER, A&P/IA #2755069
Aviation Resources, LLC
www.aviationvibes.com
715/822-5787 hangar
715/491-1303 cell
jim@aviationvibes.com

JET AIR GROUP INC.

1921 AIRPORT DRIVE AUSTIN STRAUBEL FIELD
GREEN BAY, WI 54313
F.A.A. APPROVED REPAIR STATION CRS MZ2R023L

SEPTEMBER 16, 2015 N993LL HOBBS: 619.7 FLIGHT: 593.8 ENGINE
COMPLIED WITH 100HR/ANNUAL INSPECTION USING CIRRUS SR22 INSPECTION PROGRAM CHECKLIST AS A GUIDE. AD2014-05-29 S.A.P. CYLINDERS N/A BY P/N NOT INSTALLED. DRAINED ENGINE OIL AND REPLACED OIL FILTER, P/N CH48108-1 INSTALLED. SERVICED WITH 8QTS AS15W50. INSPECTED OLD FILTER, NO CONTAMINENTS FOUND. TOOK OIL SAMPLE AND SENT FOR ANALYSIS. COMPRESSION TEST AS FOLLOWS: 1) 70/80 2) 63/80 3) 66/80 4) 68/80 5) 66/80 6) 67/80, WITH MASTER ORFICE AT 45. CLEAN/GAPPED/TESTED/ROTATED SPARK PLUGS. COMPLIED WITH 500 HOUR INSPECTION OF LEFT AND RIGHT MAGNETO. REPLACED COMPONENTS AS REQUIRED. RE-INSTALLED MAGNETOS AND TIMED TO ENGINE. ALL WORK WAS ACCOMPLISHED REFERENCING THE MANUFACTURERS MANTENANCE MANUAL. ENGINE GROUND RAN, OPS AND LEAK CHECKED, AND FOUND GOOD FOR RETURN TO SERVICE. -END-

I certify this ENGINE has been inspected in accordance with a 100HR/Annual inspection and/or FAR 91.409 (A) (1) and approved for return to service. Details under W/O 12254

For
JET AIR GROUP, GREEN BAY, WI FAA Repair Station MZ2R023L

JET AIR GROUP INC.

1921 AIRPORT DRIVE AUSTIN STRAUBEL FIELD
GREEN BAY, WI 54313
F.A.A. APPROVED REPAIR STATION CRS MZ2R023L

OCTOBER 14, 2015 N993LL HOBBS: 644.2

REPLACED PUSH-ROD TUBE SEALS ON #2 CYLINDER. P/N'S 534610 INSTALLED. ALL WORK WAS ACCOMPLISHED REFERENCING THE MANUFACTURERS MAINTENANCE MANUAL. ENGINE WAS GROUND RAN, OPS AND LEAK CHECKED, AND FOUND GOOD FOR RETURN TO SERVICE. DETAILS UNDER W.O.# 12295. -END-

FOR JET AIR GROUP, INC.
C.R.S. MZ2R023L

Date: 8/03/2016; Aircraft: N993LL; Type: CIRRUS SR22; S/N: 2220; Hobbs: 685.0; Total Time: 685.0; Engine - Type: IO-550N42, S/N: 690055, Time: 685.0; Prop - Type: PHC-J3YF-1RF, S/N: FP5170B, Time: 685.0
Hobbs Time 710.9, Flight Hobbs 685.0
Engine Work
Completed an Annual inspection in accordance with FAR 43, Appendix D. Compression test performed in accordance with TCM Standard Practice Maintenance Manual M-0, compressions as follows: #1) 74/80, #2) 68/80, #3) 70/80, #4) 76/80, #5) 70/80, #6) 64/80. Master Orifice of the day 46/80. Performed borescope inspection per TCM Standard Practice Maintenance Manual M-0, no defects noted.Cleaned, gapped and tested spark plugs.Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. Aerosell 15W50 oil. Timed left and right magnetos to 22.0 degrees BTDC per manufacturer's specifications. Removed #1 fuel injection line and inspect for damage, no defects noted. Reclamped as needed. Performed ground run, operational, and leak checks - no defects noted. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.
Doug Seibel
A&P389765035 IA Doug Seibel IA389765035

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910 MARIA STREET
SILVER CITY, NM 88061
(505) 388-5451

JET AIR CORP
Attn: BRIAN RUECHEL
1921 AIRPORT DR
AUSTIN STRAUBEL FIELD
GREEN BAY WI 54313
United States

Aircraft: SR22
S/N: 2220
Tail No.: N993LL

Date: 9/23/2015
Engine S/N: 690055
Engine Model: CONT. 550

Values in (parenthesis) below your results are average values from all our analysis data for the same engine model with similar engine hours and oil hours.
See www.avlab.com/explain for detailed explanation of the statistical analysis used with your laboratory results.

CURRENT SAMPLE

SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal | Elevated | High

Sample Date: 9/9/2015
Analysis Date: 9/21/2015
Sample Number: P69
Cylinder Type: steel

TSN/TSO: 593.8
Oil Hours: 82.4
Filter Hours: 82.4
Oil Added: 1
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
9.5	3.6	0.2	1.3			1.8	3539	5.2		< 0.1	
(71.9)	(7.4)	(13.1)	(10.8)			(8.3)	(6395)	(5.0)		(0.3)	

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

PREVIOUS SAMPLE 1

SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal | Elevated | High

Sample Date: 4/2/2015
Analysis Date: 4/13/2015
Sample Number: P27
Cylinder Type: steel

TSN/TSO: 537.3
Oil Hours: 75.8
Filter Hours:
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
50.4	6.6	17.4	8.5			8.8	7183	2.7		0.4	
(74.4)	(7.3)	(12.5)	(10.2)			(7.4)	(6868)	(5.5)		(0.3)	

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

PREVIOUS SAMPLE 2

SAMPLE APPEARS NORMAL. Send next sample at normal interval. Normal | Elevated | High

Sample Date: 9/2/2014
Analysis Date: 9/25/2014
Sample Number: P67
Cylinder Type: steel

TSN/TSO: 435.6
Oil Hours: 59.3
Filter Hours:
Oil Added: 2
Filter Wt. (mgs):
Flashpoint(deg. F):
H20 (ppm):
Total Acid No.:

*** OIL ANALYSIS RESULTS IN PARTS PER MILLION ***

Iron	Copper	Nickel	Chromium	Silver	Magnesium	Aluminum	Lead	Silicon	Titanium	Tin	Moly.
37.1	5.9	10.9	7.0			7.0	5451	2.5		< 0.1	
(65.3)	(7.3)	(13.3)	(10.1)			(7.5)	(6901)	(5.6)		(0.3)	

*** FILTER ANALYSIS RESULTS ***

Material:	Stainless Steel	Carbon Steel	Alloy Steel	Bearing Alloy	Copper	Silver	Magn.	Alum.	Grit	Misc.
Amount:										
Type:										
Form:										

Comments:

US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only
Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed $1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make: CIRRUS DESIGN CORP.	Model: SR-22
	Serial No.: 2220	Nationality and Registration Mark: N993LL
2. Owner	Name *(As shown on registration certificate)*: 993 LL AIR INC.	Address *(As shown on registration certificate)*: 30 E BUTLER AVE AMBLER, PA 19002

3. For FAA Use Only

4. Unit Identification / **5. Type**

Unit	Make	Model	Serial No.	5. Repair	5. Alteration
AIRFRAME	~~~~~ *(As described in Item 1 above)* ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
PHILIP BABB RENNRIDGE AVIATION 1100 N. RIDGE RD. PERKASIE, PA 18944	X U.S. Certificated Mechanic Foreign Certificated Mechanic Certificated Repair Station Manufacturer	2737996

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date	Signature of Authorized Individual
9-28-07	Philip S Babb

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY						
	☐ FAA Flt. Standards Inspector	☐	Manufacturer	X	Inspection Authorization	Other *(Specify)*
	☐ FAA Designee	☐	Repair Station	☐	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection	Certificate or Designation No.	Signature of Authorized Individual
9-28-07	2737996	Philip S Babb

FAA Form 337 (12-88)

AIRWOLF AIRSEP INSTRUCTIONS FOR CONTINUED AIRWORTHINESS (ICA)

A/C Make : CIRRUS Model: SR-22

Serial#: 2220 N#: 993LL

This Instructions for Continued Airworthiness (ICA) meets the requirements of 14 CFR Part 23 Appendix G.

AIRWORTHINESS LIMITATIONS

1.0 The Airworthiness Limitations Section is FAA approved and specifies maintenance required under 43.16 and 91.403 of the Federal Aviation Regulations unless an alternate program has been FAA approved.

2.0 An STC incorporated in a larger field approval major alteration may have an airworthiness limitation. The FAA inspector should not establish, alter, or cancel an airwothiness limitation without coordinating with the appropriate FAA Type Certificate Holding Office.

SECTION	DESCRIPTION
1.	Introduction: The Airwolf AirSep system is a passive oil recovery system. There are no moving parts within the AirSep.
2.	Description: The AirSep is a device through which the process of coolescense, allows the oil that is normally expelled out the engine breather tube into the atmosphere, to be collected within the device for recovery at which time it is then returned back into the engine for reuse.
3.	Servicing information: N/A
4.	Maintenance Instructions: Clean inside of AirSep and oil return line to engine with Stoddard Solvent, Mineral Spirits or other suitable solvent, at each annual or 100 hr. inspection. In the event of a vacuum pump failure, disassemble Air/Oil Separator, thoroughly clean it and all lines, hoses and fittings and remove any traces of vacuum pump debris. Reassemble and lightly torque top nut only enough to prevent top and bottom can from rotating and center gasket to seal to prevent any leakage.
5.	Trouble shooting information: If any oil is seeping out of center seam of AirSep can, replace center gasket and lightly torque top nut only enough to prevent further leakage which in most cases is 12 in/lb. If breather oil is found on the belly of the aircraft, check that outlet duct is located as per the above installation instructions and is not located in or near the high velocity airstream.
6.	Removal and replacement information: Refer to the above Approved Installation Instructions for the AirSep kit.
7.	Diagrams: N/A
8.	Special inspection requirements: None
9.	Application of protective treatments: N/A
10.	List of special tools: N/A
11.	Recomended overhaul periods: N/A
12.	Revision: The latest revision of this ICA can be found at www.airwolf.com

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished
(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

1. Installed AirWolf Filter Corp. air oil seperator S.T.C #SA02268CH PER Installation instructions AFC-W360 rel. C dated 8.28.06.
2. Weight and Balance records updated to reflect Changes
3. All work was accomplished in accordance with the acceptable methods, techniques and practices found in AC 43.13-1b.

END

☐ Additional Sheets Are Attached

Pennridge Aviation Inc.
1190 N. Wilson Rd.
Perkasie, PA 18944

Aircraft Inspection Report

Inspection Performed by: PAI

Date:	11-8-2010
Aircraft Registration Number:	N913LL
Owner:	KIMMEL
AC Make/Model:	CIRRUS SR-20
AC Serial Number:	2220
Tach Time:	HOBBS 320.4
Hobbs Time:	FLIGHT 296.5
Aircraft Total Time:	320.4
Engine Make/Model:	IO-550N42
Engine Serial Number:	640055
Engine Time Since Overhaul:	320.4
Engine Total Time:	320.4
Type of Inspection:	Annual X 100 Hr:
Time Since Last Inspection:	19.2
ELT Battery Due:	MARCH 2013

Notes:

Compression Test Results:

CYL.1-74 CYL.2-69 CYL.3-71 CYL.4-75 CYL.5-70 CYL.6-67

Scheduled Inspection Report			
Make Cirrus Design	Model SR-22	Serial Number 2220	Registration Number N993LL
Owner CRAIG KIMMEL		Date 11-8-2010	
Type of Inspection ANNUAL		Operating Time 3204	

Note: All references to "5-20" under the Chap-Sect column are to be understood as reference to Visual Inspection criteria defined above under Inspection Groups and Criteria.

	Pre-Inspection	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Operational/Functional Check Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. Make a record of all malfunctions and abnormalities for reference during the inspection. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	O X		
2.	Review compliance status with current Federal Aviation Regulations. This includes inspection of the following: - Airplane Flight Manual - Aircraft Log Book - Registration Certificate - Weight and Balance Record - FAA Airworthiness Directives - Cirrus Design Service Documents	-	O X		

	Engine Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	25 Hour Inspection After first 25 hours of operation on new, rebuilt, or overhauled engine, perform complete 100-Hour Engine Inspection in accordance with the manufacturer's approved Instructions For Continued Airworthiness.			1st 25 Hrs	
2.	Engine Cowling Remove and perform visual Inspection for cracks, distortion, and loose or missing fasteners.	71-10 5-20	X		
3.	Engine Compartment Visual Inspection for leaks.	5-20	X	50 Hrs	
4.	Engine Oil Drain and change every 50 hours or 6 months, whichever occurs first.	12-10	X	50 Hrs	
5.	Oil Sump Plug Visual Inspection for condition.	5-20	X		

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
6.	Oil Filter Perform Inspection/Check - Oil Filter Particles every 50 hours or 6 months, whichever occurs first.	12-10	X	50 Hrs	
7.	Oil Lines and Fittings Visual Inspection for leaks, security, chafing, dents, and cracks every 100 hours and after first 50 hours or 6 months of operation on new, rebuilt, or overhauled engine.	5-20	X	1st 50 Hrs or 6 Mnths	
8.	Oil Cooler Fins Clean and perform Visual Inspection for cracking, bending, and general condition.	5-20	X		
9.	Spark Plug Cable Leads Visual Inspection for chafing, corrosion, and deposits.	5-20	X	50 Hrs	
10.	Engine Compression Functional Inspection in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Cyl # 1 3 5 2 4 6 P.S.I. 74 71 70 69 75 67 Master Orifice Reading:	Refer to TCM ICA	X		
11.	Spark Plugs Inspect, clean, re-gap and rotate in accordance with the manufacturer's approved Instructions For Continued Airworthiness.	Refer to TCM ICA	X		
12.	Magneto Functional Inspect in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Internal Inspection every 500 hours in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Replace or overhaul every 4 years since new or last overhaul.	Refer to TCM ICA	X	Internal Inspect. 500 Hrs Rplc or Ovrhl at 4 years	
13.	Induction System Filter Visual Inspection for security, general condition, and cleanliness at 100 hours. Replace at Annual Inspection, at 200 hours, or when filter is more than 50% covered by foreign material.	71-60	X	Annual, 200 Hrs, or 50% used	
14.	Fuel Injection Nozzles Visual Inspect nozzles and manifold valve for fuel stains, security, and proper venting every 100 hours. Every 300 hours and at first 100-Hour Inspection on new, rebuilt, or overhauled engine, remove and clean fuel injection nozzles in accordance with the manufacturer's approved Instructions For Continued Airworthiness.	5-20 Refer to TCM ICA	X	1st 100 Hrs 300 Hrs	

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
15.	Gascolator Fuel Filter and Bowl Perform Servicing - Gascolator	28-20	X	1st 25 Hrs 50 Hrs	
16.	Fuel Pump Visual Inspection for leaks, security, and condition.	5-20	X		
17.	Flexible Fuel Lines Visual Inspection for leaks, security, and condition.	5-20	X		
18.	Battery 1 Perform Electrolyte Level Check.	12-10	X		
19.	Battery Platform, Terminals, and Cables Visual Inspection for security, corrosion, and general condition.	12-10	X		
20.	Wiring Visual Inspection for damaged wiring and clamps.	5-20	X		
21.	Cylinder Cooling Fins Visual Inspection for cracking, bending, and general condition.	5-20	X		
22.	Engine Baffling and Seals Visual Inspection for cracks, tears, and rips.	5-20	X		
23.	Air Intake Ducts Visual Inspection for general condition.	5-20	X	50 Hrs	
24.	Alternate Air Door Check operation of alternate air flapper valve.	71-60	X	50 Hrs	
25.	Throttle, Propeller, and Mixture Control Cable Visual Inspection for security and condition of cotter pins, castellated nuts, and oversized washers.	5-20	X		
26.	Exhaust System Perform Inspection/Check - Exhaust System.	78-20	X	50 Hrs	
27.	Exhaust System Perform Adjustment/Test - Forward Ball Joints.	78-20	X		
28.	Exhaust Muffler/Heat Exchanger Perform Inspection/Check - Heat Exchanger.	78-20	X		
29.	Cabin Heat Box and Ducts Visual Inspection for soot, distortion, and general condition.	5-20	X		
30.	Breather Tube Visual Inspection for obstructions and security and no sagging of tube between clamp and baffle.	5-20	X	50 Hrs	
31.	Crankcase Visual Inspection for condition, leaks, and loose components.	5-20	X		
32.	Engine Mount Weldment Visual Inspection for weld cracks, corrosion, bending, and distortion.	5-20	X		

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
33.	Engine Mount Weldment and Lower Mount Attach Fittings Visual Inspection for security. Verify torque.	5-20		1st Annual, 500 Hrs, Engine Install	
34.	Engine Mount Isolators Visual Inspection for cracking, splitting, and general condition.	5-20	X		
35.	Firewall and Seals Visual Inspection for cracks, condition, and security of attachments.	5-20	X		
36.	Alternators Visual Inspection for security and condition.	5-20	X		
37.	Alternator 1 Remove, disassemble, inspect, repair and test in accordance with the manufacturer's approved Instructions For Continued Airworthiness every 500 hours.	Refer to TCM ICA		500 Hrs	
38.	Alternator 2 Visual Inspection for security and condition. Perform Inspection/Check - Alternator 2.	24-30	X		
39.	Starter Visual Inspection for security and condition.	5-20	X		
40.	Master Control Unit Perform Inspection/Check - Master Control Unit.	24-30	X		
41.	Ice Protection Firewall Forward - Fluid Line, Bulkhead Fittings, Feeder Tube, Brackets, Clamps, and Proportioning Unit Visual Inspection for chafing, leaks, and security.	5-20	X		
42.	Engine Compartment Visual Inspection for loose nuts, bolts, screws, and parts.	5-20	X	50 Hrs	
43.	Air Conditioning Compressor Perform Inspection/Check - Compressor	21-50	X		
44.	Air Conditioning Compressor Perform Adjustment/Test - Compressor Drive Belt Tensioning	21-50	X		

	Propeller Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Spinner Remove, clean and perform Visual Inspection for cracks and corrosion.	5-20	X		
2.	Blades Visual Inspection for nicks, bends, cracks, gouges, erosion, and condition of tips.	5-20	X		
3.	Blades Inspect blades for radial play or movement of blade tip.	61-10	X		
4.	Blades Inspect blade tracking.	61-10	X		
5.	Propeller Assembly - *Serials 0002 & subs w/ Hartzell Propeller* Lubricate in accordance with the manufacturer's approved Instructions For Continued Airworthiness. AERO #6		X	12 Months	
6.	Hub Visual Inspection for cracks, corrosion, leaking oil or grease.	5-20	X		
7.	Slinger Ring Assembly Perform Operational Check - Slinger Ring Assembly	30-60	X		
8.	De-Ice Propeller Boot Visual Inspection for condition and security.	5-20	X		
9.	Blade Feed Tube Perform Inspection/Check - Blade Feed Tube Orientation.	30-60	X		
10.	Slinger Ring Feed Tube Perform Inspection/Check - Slinger Ring Feed Tube Orientation.	30-60	X		

	Cabin Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Cabin Access Panels: All Cabin Access Panels are removed during the cabin group inspection. It is recommended that the panels be removed one at a time, the access area cleaned, inspected, and if no discrepancies are found, the panel reinstalled.	06-00	X		
2.	Cabin Windows and Windshield Clean and Visual Inspection for cracking, crazing, and general condition.	5-20	X		
3.	Knobs, Switches, and Levers Visual Inspection for security, attachment and operation.	5-20	X		
4.	Cabin Heater Controls Check operation for freedom of movement.	5-20	X		
5.	Placards and Instrument Markings Visual Inspection for conformity, security, and condition.	11-20	X		

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
6.	Fire Extinguisher Perform Inspection/Check for condition and weigh.	26-20	X	Monthly	
7.	Cabin Access: Remove Glareshield. Remove MFD. Remove Cabin Seats. Remove Cabin Carpet. Remove Kickplates. Remove Center Bolster Trim. Remove RH Mid-Console Trim. Remove 222 Bulkhead Interior Trim	 25-10 31-60 25-10 25-10 25-10 25-10 25-10 25-10	X		
8.	Upholstery Visual Inspection for security.	5-20	X		
9.	Crew Seats Perform Inspection/Check - Crew Seats.	25-10	X		
10.	Crew Seat Harness Perform Inspection/Check - Crew Seat Harness.	25-10	X		
11.	Rear Seat Harness Perform Inspection/Check - Passenger Seat Harness.	25-10	X		
12.	Seat Belt Inertia Reels Visual Inspection for security of brackets and bolts.	5-20	X	Annual	
13.	Seat Rails and Slides Visual Inspection for condition and lubricate.	12-20	X		
14.	Instrument Panel Visual Inspection for security of lines and wiring.	5-20	X		
15.	Avionics Visual Inspection of components, wiring, and for security.	5-20	X		
16.	Outside Air Temperature Gage/Clock Battery Replace. N/A	34-10		24 Months	
17.	Control Yokes Visual Inspection for excessive play, security, and proper operation. Verify no noticeable freeplay in elevator or aileron input.	5-20	X		
18.	Rudder Pedals Visual Inspection for excessive play, security, and proper operation. Verify no noticeable freeplay in rudder or aileron input.	5-20	X		
19.	Rudder Pedal Torque Tube Bracket Perform Inspection/Check - Torque Tube Gap Tolerance	27-20	X		
20.	Brake Master Cylinders Visual Inspection for leaks and security.	5-20	X		
21.	Flexible Brake Lines Visual Inspection for leaks, security, and condition.	5-20	X		

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
22.	Parking Brake Valve and Control Cable Linkage Visual Inspection for leaks, security, chafing, and condition.	5-20	X		
23.	Cabin Air Control Assembly Perform Inspection/Check - Cabin Air Control Assembly	21-60		500 Hrs or 5 Years	
24.	Control Quadrant Service in accordance with AMM.	76-10		Annual	
25.	Fuel Selector Visual Inspection for operation.	5-20	X		
26.	Fuel Lines, Valves, and Gages Visual Inspection for chafing, obstruction, security, and general condition.	5-20	X		
27.	Cabin Doors and Strike Plates Visual Inspection for damage, operation, and security.	5-20	X		
28.	Door Latches Check operation of door latch mechanism.	5-20	X		
29.	Door Latches and Hinges Lubricate.	12-20	X		
30.	Fresh Air Outlets and Heat Outlets Visual Inspection for condition and obstruction or blockage.	5-20	X		
31.	Air Ducts, Electrical Leads, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20	X		
32.	Pitot-Static System Floor and Center Console Water Traps Visual Inspection for contamination, obstruction or blockage.	5-20	X		
33.	Stall Warning Water Trap Visual Inspection for contamination, obstruction or blockage.	5-20	X		
34.	Circuit Breakers Perform Functional Check - Redundant Circuit Breakers	24-50	X		
35.	Wing Attachment Bolts Visual Inspection for condition, fit, and evidence of distress.	5-20	X		
36.	Cable Attachments, Cables, and Pulleys Visual Inspection for security, chafing, wear, and general condition.	5-20	X		
37.	Flap Actuation Motor and Attach Bracket Visual inspection for condition and security.	5-20	X		
38.	Ice Protection Proportioning Units and Plumbing Visual Inspection for chafing, leaks, security, and condition.	5-20	X		
39.	Ice Protection Filter Replace every 2 years or 1200 hours whichever occurs first.	30-05	X		

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
40.	Ice Protection Fluid Tank, Filter, Metering Pump, Drain Block, and Drain Valve Visual Inspection for security and leaks.	12-10	X		
41.	Fuselage Drainage Holes Visual Inspection for obstructions or blockage.	5-20	X		
42.	CAPS Parachute Compartment Visual Inspection for security, leaks, and general condition.	5-20	X		
43.	CAPS Activation Handle Mount and Cable Visual Inspection security, chafing, and wear.	5-20	X		
44.	Magnetometer Perform Functional Test - Magnetometer Calibration.	34-20		24 Months	
45.	Emergency Locator Transmitter Functional Inspection in accordance with 14 CFR 91.207.	14 CFR 91.207	X		
46.	Altimeter Visual and Functional Inspection for condition and calibration in accordance with 14 CFR 91.411. Perform Adjustment/Test - Altimeter.	14 CFR 91.411 34-10		24 Months	
47.	Transponder Visual and Functional Inspection for condition and calibration in accordance with 14 CFR 91.413.	14 CFR 91.413		24 Months	
48.	Air Conditioning Evaporator Perform Inspection/Check - Evaporator	21-50	X		
49.	Air Conditioning Condenser Perform Inspection/Check - Condenser	21-50	X		
50.	Air Conditioning Lines and Hoses Visual Inspection for leaks, security, and condition.	5-20	X		
51.	Perform Operational Test - Air Conditioning System	21-50	X		

	Radio Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Radio and Electronic Equipment Visual Inspection for proper installation, clearance, and security.	5-20	X		
2.	Wiring Visual Inspection for proper clearance, chafing, fraying, and routing.	5-20	X		
3.	Bonding and Shielding Visual Inspection for proper installation and condition.	5-20	X		
4.	Antennas Visual Inspection for condition and security.	5-20	X		

	Fuselage and Empennage Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Empennage Access Panels Remove Empennage Access Panels LE1, LE2, RE1, RE2, RE3.	06-00	X		
2.	Skin Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure.	5-20	X		
3.	CAPS Exit Cover Visual Inspection of perimeter for cracking or crazing, and placard condition.	5-20	X		
4.	Vertical Stabilizer and Rudder Surfaces Visual Inspection for distortion, and condition.	5-20	X		
5.	Rudder System Perform Inspection/Check - Rudder System Rigging.	27-20	X		
6.	Rudder Bearings, Hinges, Horn, and Attachments Visual Inspection for security, condition, and freedom of movement.	5-20	X		
7.	Horizontal Stabilizer and Elevator Surfaces Visual Inspection for distortion, and condition.	5-20	X		
8.	Horizontal Stabilizer Access Panels and Inspection Hole Covers Visual Inspection for condition and security.	6-00 55-10	X		
9.	Elevator System Perform Inspection/Check - Elevator System Rigging.	27-30	X		
10.	Elevator Pitch Trim Cartridge - *Serials 0002 thru 0754* N/A PER S/N Perform Servicing - Pitch Trim Cartridge Lubrication.	27-30	X		
11.	Elevator Bearings, Hinges, Horn, and Attachments Visual Inspection for wear, condition, and freedom of movement.	5-20	X		

	Wing Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Wing Access Panels The following Wing Access Panels are removed during the cabin group inspection. It is recommended that the panels be removed one at a time, the access area cleaned, inspected, and if no discrepancies are found, the panel reinstalled. • *Serials 0002 thru 2333, 2335 thru 2419:* LW1, LW2, LW4, LW5, LW6, LW7, LW8, LW9, LW12, LW13, LW14, LW15, LW16, and RW1, RW2, RW4, RW5, RW6, RW7, RW8, RW9, RW12, RW13, RW14, RW16. *Serials 2334, 2420 & subs:* LW1, LW2, LW4, LW5, LW9, LW10, LW11, LW12, LW13, and RW1, RW4, RW5, RW9, RW10, RW12, RW13.	06-00	X		
2.	Skin Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure.	5-20	X		
3.	Walkway Visual Inspection for condition.	5-20	X		
4.	Wing Leading Edge and Stall Strips Visual Inspection for foreign matter and debris.	5-20	X		
5.	Aileron Surfaces Visual Inspection for distortion, and condition.	5-20	X		
6.	Aileron Actuation Arm Visual Inspection for safetying, and condition.	5-20	X		
7.	Wing Tips Remove. Clean and perform Visual Inspection for cracking, rubbing, and general condition.	57-20	X		
8.	Main Landing Gear Fairings Remove. Clean and perform Visual Inspection on fairings and anti-chafe spacers for cracking, rubbing, and general condition.	32-10	X		
9.	Aileron Hinges, Hinge Bolts, Bearings, and Attachments Visual Inspection for security, freeplay, and binding.	5-20	X		
10.	Aileron System Rigging Perform Inspection/Check - Aileron System Rigging	27-10	X		
11.	Roll Trim Access Remove LH Aileron. Remove Aileron Cove Access Panel.	57-50 06-00	X		
12.	Roll Trim Cartridge Visual Inspection for positive clearance between trim cartridge and actuation pulley under full range of trim motor positions. Visual Inspection for minimum rod end thread engagement of 0.313 inch (0.79 cm). Visual Inspection for proper installation of safety wires and cotter pins on all fasteners.	27-10	X		

EFFECTIVITY:
All

	Wing Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
13.	Flap Hinges, Hinge Bolts, Bearings, Rub Strips, and Attachments Visual Inspection for wear security, freeplay, and binding.	5-20	X		
14.	Flap System Perform Inspection/Check - Flap System Rigging	27-50	X		
15.	Pitot Mast and Static Lines Visual Inspection for security, condition, and obstruction.	5-20	X		
16.	Fuel Lines Visual Inspection for chafing, obstruction, security, and general condition.	5-20	X		
17.	Fuel Tank Vents Visual Inspection for condition and obstruction.	5-20	X		
18.	Fuel Cap Perform Functional Test - Fuel Cap Assembly.	28-10	X		
19.	Air Ducts, Electrical Leads, Lines, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20	X		
20.	Aft Wing Attach Bracket Visual Inspection for corrosion. If corrosion evident, contact Cirrus Design for disposition. Reference 57-40 for access instructions.	5-20	X		

	Landing Gear Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Nose Landing Gear Fairing Remove. Clean and perform Visual Inspection for cracking, rubbing, and general condition.	32-20	X		
2.	Tires Visual Inspection for cuts, uneven or excessive wear, and slippage.	5-20	X		
3.	Tires Inspect for proper tire pressure.	12-10	X		
4.	Brake Disk Visual Inspection for corrosion, security, and general condition.	5-20	X		
5.	Brake Linings Perform Inspection/Check - Brake Linings.	32-42	X	50 Hrs	
6.	Brake Assembly Perform Inspection/Check - Brake Assembly. Replace O-rings upon reassembly.	32-42	X		
7.	Brake Fluid Reservoir Replenish.	12-10	X	50 Hrs	
8.	Brake Lines and Hoses Visual Inspection for leaks, chafing, security, and condition.	5-20	X		
9.	Wheels Remove, Visual Inspection for condition, repack bearings.	32-41	X		
10.	Wheels Visual Inspection for cracks, corrosion, and broken bolts.	32-41		Annual	
11.	Polymer Shock Absorbing Pucks, Puck Tray, and Attach Bolts Visual Inspection of pucks for cracking or splitting. Ensure attach bolts are perpendicular to puck tray and puck stack-up is in alignment.	5-20	X		
12.	Nose Gear Assembly Perform Inspection/Check - Nose Gear Assembly	32-20	X		
13.	Main Gear Assembly Visual Inspection for condition.	5-20	X		
14.	Main Gear Strut, Attachments, and Bolts Visual Inspection for cracking, splintering, condition, and security. Verify lower strut fairing stand-off securely attached.	32-10	X		

EFFECTIVITY:
All

	Return to Service	Chap-Sect Reference	Interval 100	Special	Initials
1.	Close Access: Install Main Landing Gear Fairings. Install Nose Landing Gear Fairing. Install Cabin Access Panels. Install Cabin Carpet. Install RH Mid-Console Trim. Install Center Bolster Trim. Install Kickplates. Install Cabin Seats. Install Glareshield. Install MFD. Install 222 Bulkhead Interior Trim. Install Empennage Access Panels. Install Wing Access Panels Install LH Aileron. Install Aileron Cove Access Panel Install Wing Tips.	32-10 32-20 06-00 25-10 25-10 25-10 25-10 25-10 25-10 25-10 31-60 25-10 06-00 06-00 57-50 06-00 57-20	X		
2.	Verify all Airworthiness Directives complied with.	14 CFR 91.403	X		
3.	Fuel Injection System Functional Inspection of Fuel Injection System in accordance with the manufacturer's approved Instructions For Continued Airworthiness after engine installation, every 100 hours, at annual, or fuel system component replacement.	Refer to TCM ICA	X	Engine Install, Annual, Fuel Sys Cmpnt Rplcmnt	
4.	Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	X		
5.	Install Engine Cowling	71-10	X	50 Hrs	
6.	Verify airplane papers in proper order: - Airworthiness Certificate - Registration - Operating Handbook - Weight and Balance	14 CFR 91.203	X		

Signature of Mechanic or Inspector Philip S Bell IA
Not required per 14 CFR § 43.11.

Certificate Number 2137996

Pennridge Aviation Inc.
1180. N. Ridge Rd.
Perkasie, PA 18944

Aircraft Inspection Report

Inspection Performed by: PAJ

Date:	11-9-05
Aircraft Registration Number:	99366
Owner:	C. KIMMEL
AC Make / Model:	SR-22
AC Serial Number:	2220
Tach Time:	2801
Hobbs Time:	3012 2801
Aircraft Total Time:	3012
Engine Make / Model:	IO-540-AI
Engine Serial Number:	690035
Engine Time Since Overhaul:	3012
Engine Total Time:	3012
Type of Inspection:	Annual X 100 Hr
Time Since Last Inspection:	2681 3301
ELT Battery Due:	MARCH 2013

Notes

Compression Test Results:

CYL 1-73 CYL 2-70 CYL 3-70 CYL 4-71 CYL 5-74 CYL 6-70

ELV 60 lbs
Rudder 40 lbs

2.00pm 25.1

DISCREPANCY SHEET

Date: 11/10/09

N 9932C

Page 1 of 2

Discrepancy	Actions Taken	Initials
OIL CHANGE	CHANGED	[signature]
AIR FILTER	REPLACED BA-24 2124	[signature]

Scheduled Inspection Report			
Make Cirrus Design	Model SR22	Serial Number 2220	Registration Number 993LL
Owner C. KIMMEL		Date 11-9-09	
Type of Inspection ANNUAL		Operating Time H 3012 FLT - 280.1	

Note: All references to "5-20" under the Chap-Sect column are to be understood as reference to Visual Inspection criteria defined above under Inspection Groups and Criteria.

	Pre-Inspection	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Operational/Functional Check Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. Make a record of all malfunctions and abnormalities for reference during the inspection. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	X		
2.	Review compliance status with current Federal Aviation Regulations. This includes inspection of the following: - Airplane Flight Manual - Aircraft Log Book - Registration Certificate - Weight and Balance Record - FAA Airworthiness Directives - Cirrus Design Service Documents	-	X		

	Engine Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	25 Hour Inspection After first 25 hours of operation on new, rebuilt, or overhauled engine, perform complete 100-Hour Engine Inspection in accordance with the manufacturer's approved Instructions For Continued Airworthiness.			1st 25 Hrs	
2.	Engine Cowling Remove and perform visual Inspection for cracks, distortion, and loose or missing fasteners.	71-10 5-20	X		
3.	*Engine Compartment* Visual Inspection for leaks.	5-20	X	50 Hrs	
4.	Engine Oil Drain and change every 50 hours or 6 months, whichever occurs first.	12-10	X	50 Hrs	
5.	Oil Sump Plug Visual Inspection for condition.	5-20	X		

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
6.	Oil Filter Perform Inspection/Check - Oil Filter Particles every 50 hours or 6 months, whichever occurs first.	12-10	O X	50 Hrs	
7.	Oil Lines and Fittings Visual Inspection for leaks, security, chafing, dents, and cracks every 100 hours and after first 50 hours or 6 months of operation on new, rebuilt, or overhauled engine.	5-20	O X	1st 50 Hrs or 6 Mnths	
8.	Oil Cooler Fins Clean and perform Visual Inspection for cracking, bending, and general condition.	5-20	O X		
9.	Spark Plug Cable Leads Visual Inspection for chafing, corrosion, and deposits.	5-20	O X	50 Hrs	
10.	Engine Compression Functional Inspection in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Cyl # 1 3 5 2 4 6 P.S.I. 70 70 74 70 72 70 Master Orifice Reading:	Refer to TCM ICA	O X		
11.	Spark Plugs Inspect, clean, re-gap and rotate in accordance with the manufacturer's approved Instructions For Continued Airworthiness.	Refer to TCM ICA	O X		
12.	Magneto Functional Inspect in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Internal Inspection every 500 hours in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Replace or overhaul every 4 years since new or last overhaul.	Refer to TCM ICA	O	Internal Inspect. 500 Hrs Rplc or Ovrhl at 4 years	
13.	Induction System Filter Visual Inspection for security, general condition, and cleanliness at 100 hours. Replace at Annual Inspection, at 200 hours, or when filter is more than 50% covered by foreign material.	71-60	O	Annual, 200 Hrs, or 50% used	
14.	Fuel Injection Nozzles Visual Inspect nozzles and manifold valve for fuel stains, security, and proper venting every 100 hours. Every 300 hours and at first 100-Hour Inspection on new, rebuilt, or overhauled engine, remove and clean fuel injection nozzles in accordance with the manufacturer's approved Instructions For Continued Airworthiness.	5-20 Refer to TCM ICA	O X	1st 100 Hrs 300 Hrs	

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
15.	Gascolator Fuel Filter and Bowl Perform Servicing - Gascolator	28-20	O	1st 25 Hrs 50 Hrs	
16.	Fuel Pump Visual Inspection for leaks, security, and condition.	5-20			
17.	Flexible Fuel Lines Visual Inspection for leaks, security, and condition.	5-20			
18.	Battery 1 Perform Electrolyte Level Check.	12-10			
19.	Battery Platform, Terminals, and Cables Visual Inspection for security, corrosion, and general condition.	12-10			
20.	Wiring Visual Inspection for damaged wiring and clamps.	5-20			
21.	*Cylinder Cooling Fins* Visual Inspection for cracking, bending, and general condition.	5-20			
22.	Engine Baffling and Seals Visual Inspection for cracks, tears, and rips.	5-20			
23.	Air Intake Ducts Visual Inspection for general condition.	5-20		50 Hrs	
24.	Alternate Air Door Check operation of alternate air flapper valve.	71-60	O	50 Hrs	
25.	Throttle, Propeller, and Mixture Control Cable Visual Inspection for security and condition of cotter pins, castellated nuts, and oversized washers.	5-20			
26.	Exhaust System Perform Inspection/Check - Exhaust System.	78-20	O	50 Hrs	
27.	Exhaust System *Perform Adjustment/Test - Forward Ball Joints.*	78-20	O		
28.	Exhaust Muffler/Heat Exchanger Perform Inspection/Check - Heat Exchanger.	78-20			
29.	Cabin Heat Box and Ducts Visual Inspection for soot, distortion, and general condition.	5-20			
30.	Breather Tube Visual Inspection for obstructions and security and no sagging of tube between clamp and baffle.	5-20		50 Hrs	
31.	Crankcase Visual Inspection for condition, leaks, and loose components.	5-20			
32.	Engine Mount Weldment Visual Inspection for weld cracks, corrosion, bending, and distortion.	5-20			

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
33.	Engine Mount Weldment and Lower Mount Attach Fittings Visual Inspection for security. Verify torque.	5-20		1st Annual, 500 Hrs, Engine Install	
34.	Engine Mount Isolators Visual Inspection for cracking, splitting, and general condition.	5-20	X		
35.	Firewall and Seals Visual Inspection for cracks, condition, and security of attachments.	5-20	X		
36.	Alternators Visual Inspection for security and condition.	5-20	X		
37.	Alternator 1 Remove, disassemble, inspect, repair and test in accordance with the manufacturer's approved Instructions For Continued Airworthiness every 500 hours.	Refer to TCM ICA		500 Hrs	
38.	Alternator 2 Visual Inspection for security and condition. Perform Inspection/Check - Alternator 2.	24-30	X		
39.	Starter Visual Inspection for security and condition.	5-20	X		
40.	Master Control Unit Perform Inspection/Check - Master Control Unit.	24-30	X		
41.	Ice Protection Firewall Forward - Fluid Line, Bulkhead Fittings, Feeder Tube, Brackets, Clamps, and Proportioning Unit Visual Inspection for chafing, leaks, and security.	5-20	X		
42.	Engine Compartment Visual Inspection for loose nuts, bolts, screws, and parts.	5-20	X	50 Hrs	
43.	Air Conditioning Compressor Perform Inspection/Check - Compressor	21-50	X		
44.	Air Conditioning Compressor Perform Adjustment/Test - Compressor Drive Belt Tensioning	21-50	X		

EFFECTIVITY:
All

	Propeller Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Spinner Remove, clean and perform Visual Inspection for cracks and corrosion.	5-20	O		
2.	Blades Visual Inspection for nicks, bends, cracks, gouges, erosion, and condition of tips.	5-20	O		
3.	Blades Inspect blades for radial play or movement of blade tip.	61-10	O		
4.	Blades *Inspect blade tracking.*	61-10	O		
5.	Propeller Assembly - *Serials 0002 & subs w/ Hartzell Propeller* Lubricate in accordance with the manufacturer's approved Instructions For Continued Airworthiness.		O	12 Months	
6.	Hub Visual Inspection for cracks, corrosion, leaking oil or grease.	5-20	O		
7.	Slinger Ring Assembly Perform Operational Check - Slinger Ring Assembly	30-60	O		
8.	De-Ice Propeller Boot Visual Inspection for condition and security.	5-20	O		
9.	Blade Feed Tube Perform Inspection/Check - Blade Feed Tube Orientation.	30-60	O		
10.	Slinger Ring Feed Tube Perform Inspection/Check - Slinger Ring Feed Tube Orientation.	30-60	O		

	Cabin Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Cabin Access Panels: All Cabin Access Panels are removed during the cabin group inspection. *It is recommended that the panels be removed one at a time, the access area cleaned, inspected, and if no discrepancies are found, the panel reinstalled.*	06-00	O		
2.	Cabin Windows and Windshield Clean and Visual Inspection for cracking, crazing, and general condition.	5-20	O		
3.	Knobs, Switches, and Levers Visual Inspection for security, attachment and operation.	5-20	O		
4.	Cabin Heater Controls Check operation for freedom of movement.	5-20	O		
5.	Placards and Instrument Markings Visual Inspection for conformity, security, and condition.	11-20	O		

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100 Special		Initials
6.	Fire Extinguisher Perform Inspection/Check for condition and weigh.	26-20		Monthly	
7.	Cabin Access: Remove Glareshield. Remove MFD. Remove Cabin Seats. Remove Cabin Carpet. Remove Kickplates. Remove Center Bolster Trim. Remove RH Mid-Console Trim. Remove 222 Bulkhead Interior Trim	 25-10 31-60 25-10 25-10 25-10 25-10 25-10 25-10			
8.	Upholstery Visual Inspection for security.	5-20			
9.	Crew Seats Perform Inspection/Check - Crew Seats.	25-10			
10.	Crew Seat Harness Perform Inspection/Check - Crew Seat Harness.	25-10			
11.	Rear Seat Harness Perform Inspection/Check - Passenger Seat Harness.	25-10			
12.	Seat Belt Inertia Reels Visual Inspection for security of brackets and bolts.	5-20		Annual	
13.	Seat Rails and Slides Visual Inspection for condition and lubricate.	12-20			
14.	Instrument Panel Visual Inspection for security of lines and wiring.	5-20			
15.	Avionics Visual Inspection of components, wiring, and for security.	5-20			
16.	Outside Air Temperature Gage/Clock Battery Replace. N/A-S/N	34-10		24 Months	
17.	Control Yokes Visual Inspection for excessive play, security, and proper operation. Verify no noticeable freeplay in elevator or aileron input.	5-20			
18.	Rudder Pedals Visual Inspection for excessive play, security, and proper operation. Verify no noticeable freeplay in rudder or aileron input.	5-20			
19.	Rudder Pedal Torque Tube Bracket Perform Inspection/Check - Torque Tube Gap Tolerance	27-20			
20.	Brake Master Cylinders Visual Inspection for leaks and security.	5-20			
21.	Flexible Brake Lines Visual Inspection for leaks, security, and condition.	5-20			

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
22.	Parking Brake Valve and Control Cable Linkage Visual Inspection for leaks, security, chafing, and condition.	5-20	O		
23.	Cabin Air Control Assembly Perform Inspection/Check - Cabin Air Control Assembly	21-60		500 Hrs or 5 Years	
24.	Control Quadrant Service in accordance with AMM.	76-10		Annual	
25.	Fuel Selector Visual Inspection for operation.	5-20			
26.	Fuel Lines, Valves, and Gages Visual Inspection for chafing, obstruction, security, and general condition.	5-20	O		
27.	Cabin Doors and Strike Plates Visual Inspection for damage, operation, and security.	5-20	O		
28.	Door Latches Check operation of door latch mechanism.	5-20			
29.	Door Latches and Hinges Lubricate.	12-20			
30.	Fresh Air Outlets and Heat Outlets Visual Inspection for condition and obstruction or blockage.	5-20			
31.	Air Ducts, Electrical Leads, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20	O		
32.	Pitot-Static System Floor and Center Console Water Traps Visual Inspection for contamination, obstruction or blockage.	5-20			
33.	Stall Warning Water Trap Visual Inspection for contamination, obstruction or blockage.	5-20			
34.	Circuit Breakers Perform Functional Check - Redundant Circuit Breakers	24-50	O		
35.	Wing Attachment Bolts Visual Inspection for condition, fit, and evidence of distress.	5-20	O		
36.	Cable Attachments, Cables, and Pulleys Visual Inspection for security, chafing, wear, and general condition.	5-20			
37.	Flap Actuation Motor and Attach Bracket Visual inspection for condition and security.	5-20	O		
38.	Ice Protection Proportioning Units and Plumbing Visual Inspection for chafing, leaks, security, and condition.	5-20	O		
39.	Ice Protection Filter Replace every 2 years or 1200 hours whichever occurs first.	30-05			

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
40.	Ice Protection Fluid Tank, Filter, Metering Pump, Drain Block, and Drain Valve Visual Inspection for security and leaks.	12-10	O		
41.	Fuselage Drainage Holes Visual Inspection for obstructions or blockage.	5-20	O		
42.	CAPS Parachute Compartment Visual Inspection for security, leaks, and general condition.	5-20	O		
43.	CAPS Activation Handle Mount and Cable Visual Inspection security, chafing, and wear.	5-20	O		
44.	Magnetometer Perform Functional Test - Magnetometer Calibration.	34-20		24 Months	
45.	Emergency Locator Transmitter Functional Inspection in accordance with 14 CFR 91.207.	14 CFR 91.207	O		
46.	*Altimeter* Visual and Functional Inspection for condition and calibration in accordance with 14 CFR 91.411. Perform Adjustment/Test - Altimeter.	14 CFR 91.411 34-10		24 Months	
47.	Transponder Visual and Functional Inspection for condition and calibration in accordance with 14 CFR 91.413.	14 CFR 91.413		24 Months	
48.	Air Conditioning Evaporator Perform Inspection/Check - Evaporator	21-50	O		
49.	Air Conditioning Condenser *Perform Inspection/Check - Condenser*	21-50	O		
50.	Air Conditioning Lines and Hoses Visual Inspection for leaks, security, and condition.	5-20	O		
51.	Perform Operational Test - Air Conditioning System	21-50	O		

	Radio Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Radio and Electronic Equipment Visual Inspection for proper installation, clearance, and security.	5-20	O		
2.	Wiring Visual Inspection for proper clearance, chafing, fraying, and routing.	5-20	O		
3.	Bonding and Shielding Visual Inspection for proper installation and condition.	5-20	O		
4.	*Antennas* Visual Inspection for condition and security.	5-20	O		

EFFECTIVITY:
All

	Fuselage and Empennage Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Empennage Access Panels Remove Empennage Access Panels LE1, LE2, RE1, RE2, RE3.	06-00	X		
2.	Skin Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure.	5-20	X		
3.	CAPS Exit Cover Visual Inspection of perimeter for cracking or crazing, and placard condition.	5-20	X		
4.	Vertical Stabilizer and Rudder Surfaces Visual Inspection for distortion, and condition.	5-20	X		
5.	Rudder System Perform Inspection/Check - Rudder System Rigging.	27-20	X		
6.	Rudder Bearings, Hinges, Horn, and Attachments Visual Inspection for security, condition, and freedom of movement.	5-20	X		
7.	Horizontal Stabilizer and Elevator Surfaces Visual Inspection for distortion, and condition.	5-20	X		
8.	Horizontal Stabilizer Access Panels and Inspection Hole Covers Visual Inspection for condition and security.	6-00 55-10	X		
9.	Elevator System Perform Inspection/Check - Elevator System Rigging.	27-30	X		
10.	Elevator Pitch Trim Cartridge - *Serials 0002 thru 0754* Perform Servicing - Pitch Trim Cartridge Lubrication.	27-30	X		
11.	Elevator Bearings, Hinges, Horn, and Attachments Visual Inspection for wear, condition, and freedom of movement.	5-20	X		

	Wing Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
13.	Flap Hinges, Hinge Bolts, Bearings, Rub Strips, and Attachments Visual Inspection for wear security, freeplay, and binding.	5-20			
14.	Flap System Perform Inspection/Check - Flap System Rigging	27-50			
15.	Pitot Mast and Static Lines Visual Inspection for security, condition, and obstruction.	5-20			
16.	Fuel Lines Visual Inspection for chafing, obstruction, security, and general condition.	5-20			
17.	Fuel Tank Vents Visual Inspection for condition and obstruction.	5-20			
18.	Fuel Cap Perform Functional Test - Fuel Cap Assembly.	28-10			
19.	Air Ducts, Electrical Leads, Lines, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20			
20.	Aft Wing Attach Bracket Visual Inspection for corrosion. If corrosion evident, contact Cirrus Design for disposition. Reference 57-40 for access instructions.	5-20			

	Landing Gear Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Nose Landing Gear Fairing Remove. Clean and perform Visual Inspection for cracking, rubbing, and general condition.	32-20	O		
2.	Tires Visual Inspection for cuts, uneven or excessive wear, and slippage.	5-20	O		
3.	Tires Inspect for proper tire pressure.	12-10	O		
4.	Brake Disk Visual Inspection for corrosion, security, and general condition.	5-20	O		
5.	Brake Linings Perform Inspection/Check - Brake Linings.	32-42	O	50 Hrs	
6.	Brake Assembly Perform Inspection/Check - Brake Assembly. Replace O-rings upon reassembly.	32-42	O		
7.	Brake Fluid Reservoir Replenish.	12-10	O	50 Hrs	
8.	Brake Lines and Hoses Visual Inspection for leaks, chafing, security, and condition.	5-20	O		
9.	Wheels Remove, Visual Inspection for condition, repack bearings.	32-41	O		
10.	Wheels Visual Inspection for cracks, corrosion, and broken bolts.	32-41		Annual	
11.	Polymer Shock Absorbing Pucks, Puck Tray, and Attach Bolts Visual Inspection of pucks for cracking or splitting. Ensure attach bolts are perpendicular to puck tray and puck stack-up is in alignment.	5-20	O		
12.	Nose Gear Assembly Perform Inspection/Check - Nose Gear Assembly	32-20	O		
13.	Main Gear Assembly Visual Inspection for condition.	5-20	O		
14.	Main Gear Strut, Attachments, and Bolts Visual Inspection for cracking, splintering, condition, and security. Verify lower strut fairing stand-off securely attached.	32-10	O		

	Return to Service	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Close Access: Install Main Landing Gear Fairings. Install Nose Landing Gear Fairing. Install Cabin Access Panels. Install Cabin Carpet. Install RH Mid-Console Trim. Install Center Bolster Trim. Install Kickplates. Install Cabin Seats. Install Glareshield. Install MFD. Install 222 Bulkhead Interior Trim. Install Empennage Access Panels. Install Wing Access Panels Install LH Aileron. Install Aileron Cove Access Panel Install Wing Tips.	32-10 32-20 06-00 25-10 25-10 25-10 25-10 25-10 25-10 31-60 25-10 06-00 06-00 57-50 06-00 57-20	O		
2.	Verify all Airworthiness Directives complied with.	14 CFR 91.403			
3.	Fuel Injection System Functional Inspection of Fuel Injection System in accordance with the manufacturer's approved Instructions For Continued Airworthiness after engine installation, every 100 hours, at annual, or fuel system component replacement. CHECKED PER SPEC.	Refer to TCM ICA	O	Engine Install, Annual, Fuel Sys Cmpnt Rplcmnt	
4.	Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	O		
5.	Install Engine Cowling	71-10	O	50 Hrs	
6.	Verify airplane papers in proper order: - Airworthiness Certificate - Registration - Operating Handbook - Weight and Balance	14 CFR 91.203	O		

Signature of Mechanic or Inspector _____
Not required per 14 CFR § 43.11.

Certificate Number _____

Pennridge Aviatiion Inc.
1100. N. Ridge Rd.
Perkasie, PA 18944

Aircraft Inspection Report

Inspection Performed by: _____

Date:	10-23-08
Aircraft Registration Number:	N993LL
Owner:	C. KIMMEL
AC Make / Model:	Cirrus SR-22
AC Serial Number:	2220
Tach Time:	—
Hobbs Time:	2681 1988
Aircraft Total Time:	2681
Engine Make / Model:	IO-550-N
Engine Serial Number:	
Engine Time Since Overhaul:	—
Engine Total Time:	2681
Type of Inspection:	Annual X 100 Hr _____
Time Since Last Inspection:	69.3
ELT Battery Due:	MARCH 2013

Notes

Compression Test Results:

CYL 1 - 71 CYL 2 - ~~80~~ 70 CYL 3 - ~~70~~ 74 CYL 4 - 74 CYL 5 - 70 CYL 6 - 71

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Special	Initials
15.	Gascolator Fuel Filter and Bowl Perform Servicing - Gascolator	28-20	O	1st 25 Hrs 50 Hrs	
16.	Fuel Pump Visual Inspection for leaks, security, and condition.	5-20			
17.	Flexible Fuel Lines Visual Inspection for leaks, security, and condition.	5-20			
18.	Battery 1 Perform Electrolyte Level Check.	12-10	O		
19.	Battery Platform, Terminals, and Cables Visual Inspection for security, corrosion, and general condition.	12-10			
20.	Wiring Visual Inspection for damaged wiring and clamps.	5-20			
21.	Cylinder Cooling Fins Visual Inspection for cracking, bending, and general condition.	5-20			
22.	Engine Baffling and Seals Visual Inspection for cracks, tears, and rips.	5-20			
23.	Air Intake Ducts Visual Inspection for general condition.	5-20		50 Hrs	
24.	Alternate Air Door Check operation of alternate air flapper valve.	71-60		50 Hrs	
25.	Throttle, Propeller, and Mixture Control Cable Visual Inspection for security and condition of cotter pins, castellated nuts, and oversized washers.	5-20			
26.	Exhaust System Perform Inspection/Check - Exhaust System.	78-20		50 Hrs	
27.	Exhaust System Perform Adjustment/Test - Forward Ball Joints.	78-20			
28.	Exhaust Muffler/Heat Exchanger Perform Inspection/Check - Heat Exchanger.	78-20			
29.	Cabin Heat Box and Ducts Visual Inspection for soot, distortion, and general condition.	5-20			
30.	Breather Tube Visual Inspection for obstructions and security and no sagging of tube between clamp and baffle.	5-20		50 Hrs	
31.	Crankcase Visual Inspection for condition, leaks, and loose components.	5-20			
32.	Engine Mount Weldment Visual Inspection for weld cracks, corrosion, bending, and distortion.	5-20			

	Propeller Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Spinner Remove, clean and perform Visual Inspection for cracks and corrosion.	5-20	O		
2.	Blades Visual Inspection for nicks, bends, cracks, gouges, erosion, and condition of tips.	5-20	O		
3.	Blades Inspect blades for radial play or movement of blade tip.	61-10	O		
4.	Blades Inspect blade tracking.	61-10	O		
5.	Propeller Assembly - *Serials 0002 & subs w/ Hartzell Propeller* Lubricate in accordance with the manufacturer's approved Instructions For Continued Airworthiness.		O	12 Months	
6.	Hub Visual Inspection for cracks, corrosion, leaking oil or grease.	5-20	O		
7.	Slinger Ring Assembly Perform Operational Check - Slinger Ring Assembly	30-60	O		
8.	De-Ice Propeller Boot Visual Inspection for condition and security.	5-20	O		
9.	Blade Feed Tube Perform Inspection/Check - Blade Feed Tube Orientation.	30-60	O		
10.	Slinger Ring Feed Tube Perform Inspection/Check - Slinger Ring Feed Tube Orientation.	30-60	O		

	Cabin Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Cabin Access Panels: All Cabin Access Panels are removed during the cabin group inspection. It is recommended that the panels be removed one at a time, the access area cleaned, inspected, and if no discrepancies are found, the panel reinstalled.	06-00	O		
2.	Cabin Windows and Windshield Clean and Visual Inspection for cracking, crazing, and general condition.	5-20	O		
3.	Knobs, Switches, and Levers Visual Inspection for security, attachment and operation.	5-20	O		
4.	Cabin Heater Controls Check operation for freedom of movement.	5-20	O		
5.	Placards and Instrument Markings Visual Inspection for conformity, security, and condition.	11-20	O		

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
22.	Parking Brake Valve and Control Cable Linkage Visual Inspection for leaks, security, chafing, and condition.	5-20			
23.	Cabin Air Control Assembly Perform Inspection/Check - Cabin Air Control Assembly	21-60		500 Hrs or 5 Years	
24.	Control Quadrant Service in accordance with AMM.	76-10		Annual	
25.	Fuel Selector Visual Inspection for operation.	5-20			
26.	Fuel Lines, Valves, and Gages Visual Inspection for chafing, obstruction, security, and general condition.	5-20			
27.	Cabin Doors and Strike Plates Visual Inspection for damage, operation, and security.	5-20			
28.	Door Latches Check operation of door latch mechanism.	5-20			
29.	Door Latches and Hinges Lubricate.	12-20			
30.	Fresh Air Outlets and Heat Outlets Visual Inspection for condition and obstruction or blockage.	5-20			
31.	Air Ducts, Electrical Leads, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20			
32.	Pitot-Static System Floor and Center Console Water Traps Visual Inspection for contamination, obstruction or blockage.	5-20			
33.	Stall Warning Water Trap Visual Inspection for contamination, obstruction or blockage.	5-20			
34.	Circuit Breakers Perform Functional Check - Redundant Circuit Breakers	24-50			
35.	Wing Attachment Bolts Visual Inspection for condition, fit, and evidence of distress.	5-20			
36.	Cable Attachments, Cables, and Pulleys Visual Inspection for security, chafing, wear, and general condition.	5-20			
37.	Flap Actuation Motor and Attach Bracket Visual inspection for condition and security.	5-20			
38.	Ice Protection Proportioning Units and Plumbing Visual Inspection for chafing, leaks, security, and condition.	5-20			
39.	Ice Protection Filter Replace every 2 years or 1200 hours whichever occurs first.	30-05			

	Fuselage and Empennage Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Empennage Access Panels Remove Empennage Access Panels LE1, LE2, RE1, RE2, RE3.	06-00	X		
2.	Skin Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure.	5-20	X		
3.	CAPS Exit Cover Visual Inspection of perimeter for cracking or crazing, and placard condition.	5-20	X		
4.	Vertical Stabilizer and Rudder Surfaces Visual Inspection for distortion, and condition.	5-20	X		
5.	Rudder System Perform Inspection/Check - Rudder System Rigging.	27-20	X		
6.	Rudder Bearings, Hinges, Horn, and Attachments Visual Inspection for security, condition, and freedom of movement.	5-20	X		
7.	Horizontal Stabilizer and Elevator Surfaces Visual Inspection for distortion, and condition.	5-20	X		
8.	Horizontal Stabilizer Access Panels and Inspection Hole Covers Visual Inspection for condition and security.	6-00 55-10	X		
9.	Elevator System Perform Inspection/Check - Elevator System Rigging.	27-30	X		
10.	Elevator Pitch Trim Cartridge - *Serials 0002 thru 0754* Perform Servicing - Pitch Trim Cartridge Lubrication.	27-30	X		
11.	Elevator Bearings, Hinges, Horn, and Attachments Visual Inspection for wear, condition, and freedom of movement.	5-20	X		

	Wing Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
13.	Flap Hinges, Hinge Bolts, Bearings, Rub Strips, and Attachments Visual Inspection for wear security, freeplay, and binding.	5-20			
14.	Flap System Perform Inspection/Check - Flap System Rigging	27-50			
15.	Pitot Mast and Static Lines Visual Inspection for security, condition, and obstruction.	5-20			
16.	Fuel Lines Visual Inspection for chafing, obstruction, security, and general condition.	5-20			
17.	Fuel Tank Vents Visual Inspection for condition and obstruction.	5-20			
18.	Fuel Cap Perform Functional Test - Fuel Cap Assembly.	28-10			
19.	Air Ducts, Electrical Leads, Lines, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20			
20.	Aft Wing Attach Bracket Visual Inspection for corrosion. If corrosion evident, contact Cirrus Design for disposition. Reference 57-40 for access instructions.	5-20			

	Return to Service	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Close Access: Install Main Landing Gear Fairings. Install Nose Landing Gear Fairing. Install Cabin Access Panels. Install Cabin Carpet. Install RH Mid-Console Trim. Install Center Bolster Trim. Install Kickplates. Install Cabin Seats. Install Glareshield. Install MFD. Install 222 Bulkhead Interior Trim. Install Empennage Access Panels. Install Wing Access Panels Install LH Aileron. Install Aileron Cove Access Panel Install Wing Tips.	 32-10 32-20 06-00 25-10 25-10 25-10 25-10 25-10 25-10 31-60 25-10 06-00 06-00 57-50 06-00 57-20			
2.	Verify all Airworthiness Directives complied with.	14 CFR 91.403			
3.	Fuel Injection System Functional Inspection of Fuel Injection System in accordance with the manufacturer's approved Instructions For Continued Airworthiness after engine installation, every 100 hours, at annual, or fuel system component replacement.	Refer to TCM ICA		Engine Install, Annual, Fuel Sys Cmpnt Rplcmnt	
4.	Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30			
5.	Install Engine Cowling	71-10		50 Hrs	
6.	Verify airplane papers in proper order: - Airworthiness Certificate - Registration - Operating Handbook - Weight and Balance	14 CFR 91.203			

Signature of Mechanic or Inspector [illegible], IA
Not required per 14 CFR § 43.11.

Certificate Number 2737996

	Operational Inspection Report	Chk'd	Notes
1.	Flight Controls Check for full range of travel and excessive friction. Visual Inspection for obstructions.	X	BM
2.	Engine Controls Check full range of motion without any obstruction or excessive friction to travel. Power lever should provide a slight resistance at detents and have positive clearance to the console slot in both the full forward and full aft positions.	X	
3.	Battery 2 Master Switch When switch is toggled ON the following should occur: *Serials 0002 thru 0434, 0435 thru 0820 w/o PFD:* a. Voltmeter indicates at least 24 volts on battery 2. b. ALT 1 and ALT 2 Caution lights illuminate. c. Flap position light off. d. Attitude gyro low voltage flag hidden. e. HSI HDG flag hidden within five minutes. f. Turn Coordinator low voltage flag hidden. g. Autopilot ready indication after gyro spool up. *Serials 0435 thru 0820 w/ PFD, 0821 thru 1601, 1603 thru 1643, 1645 thru 1662:* a. Voltmeter indicates at least 24 volts on battery 2. b. ALT 1 and ALT 2 Caution lights illuminate. c. Flap position light off. d. Autopilot ready indication after gyro spool up. e. PFD aligned within five minutes with no error messages. f. Standby attitude gyro aligned within five minutes. *Serials 1602, 1644, 1663 & subs:* a. PFD indicates at least 24 volts on Essential Bus. b. ALT 2 Caution light illuminates. c. Flap position light off. d. Autopilot ready indication on both PFD and flight guidance programmer/computer after gyro spool up. e. PFD aligned within five minutes with no error messages. f. Standby attitude gyro aligned within five minutes.		

EFFECTIVITY:
All

	Operational Inspection Report (Continued)	Chk'd	Notes
4.	Battery 1 Master Switch When switch is toggled ON the following should occur: *Serials 0002 thru 0434, 0435 thru 0820 w/o PFD:* a. ALT 1 and ALT 2 fail lights should be on. b. Flap position light illuminates. c. Engine instruments operational, MAP gage should indicate approximately the altimeter setting. d. Ammeter select switch should show slight discharge when battery selected. *Serials 0435 thru 0820 w/ PFD, 0821 thru 1601, 1603 thru 1643, 1645 thru 1662:* a. ALT 1 and ALT 2 fail lights should be on. b. Flap position light illuminates. c. Engine instruments operational, MAP gage should indicate approximately the altimeter setting. d. Ammeter select switch should show slight discharge when battery selected. e. Turn battery 2 to the off position and verify PFD remains functional. f. Verify voltmeter indicates at least 24 volts on battery 1. *Serials 1602, 1644, 1663 & subs:* a. ALT 1 and ALT 2 fail lights should be on. ✓ b. Flap position light illuminates. c. Engine parameters on PFD are operational, MAP display should indicate approximately the altimeter setting. ✓ d. Turn battery 2 to the off position and verify PFD remains functional. ✓ e. Verify PFD indicates at least 24 volts on Main Bus. ✓		24.2 Volts
5.	Pitot Heater Set PITOT HEAT switch to ON position and verify pitot tube heat.	✓	
6.	Ice Protection System Porous Panels Set ice protection switch to the MAXIMUM position and verify evidence of de-icing fluid from porous panels.	Ø	
7.	Start Engine (Refer to POH Section 4) Starter spins propeller rapidly without slipping or dragging. Set engine speed at 1000 RPM.	✓	
8.	Oil Pressure Indicates in the green arc within 30 seconds. If extremely cold, oil pressure may be in yellow arc for one to two minutes.	✓	
9.	Flaps Operate through full extension and retraction for steady and complete deployment. Flap position light illuminates at the retracted, 50%, and 100% positions.	✓	
10.	Trim Controls Aileron trim functions fully left and right without rudder movement caused by the rudder-aileron interconnect. Check for full range of travel and excessive friction.	✓	

	Operational Inspection Report (Continued)	Chk'd	Notes
11.	Altimeter Indicates within 50 feet of field elevation when set to correct barometric pressure setting.	✓	
12.	Vertical Speed Indicator Indicates zero.	✓	
13.	Communications a. Verify all four headset jacks operate properly. b. Music is muted during transmissions and receptions. c. Verify the communications capability on both the high and low ends of the VHF COM band.	✓	
14.	Lighting Verify lighting controls, avionics light sensors and lights operate properly: *Serials 0002 thru 0434, 0435 thru 0820 w/o PFD:* a. Landing light. b. Navigation lights c. Anticollision lights d. Instrument backlighting: ASI, AH, VSI, DG, CDI, Clock, Altimeter, Turn Coordinator, and engine instrumentation. e. Avionics brightness: Audio Panel, GPS/COM/NAV 1 & GPS/COM 2, Transponder, and optional avionics. f. MFD, HSI brightness *Serials 0435 thru 0820 w/ PFD, 0821 thru 1601, 1603 thru 1643, 1645 thru 1662:* a. Landing light. b. Navigation lights c. Anticollision lights d. Instrument backlighting: ASI, AH, Altimeter, and engine instrumentation. e. Avionics brightness: Audio Panel, GPS/COM/NAV 1 & GPS/COM 2, Transponder, and optional avionics. f. PFD, MFD display and bezel key brightness. *Serials 1602, 1644, 1663 & subs:* a. Landing light. ✓ b. Navigation lights ✓ c. Anticollision lights ✓ d. Instrument backlighting: ASI, AH, and Altimeter. ✓ e. Avionics brightness: Audio Panel, GPS/COM/NAV 1 & GPS/COM 2, Transponder, and optional avionics. ✓ f. PFD, MFD display and bezel key brightness. ✓	✓	
15.	Alternator 1 Load Increase RPM to 1000. Check that LOW VOLT light is off. Ammeter indication shows no current discharge with full avionics, landing light, pitot heat, and navigation lights operating.		27.8 V / 35 A

Operational Inspection Report (Continued)		Chk'd	Notes
16.	Magneto RPM Drop Decrease RPM to 1700. Check that a 0 to 100 RPM drop occurs while operating on one magneto and no more than a 50 RPM drop difference between left and right magnetos. Reduce RPM to 1000.		L-20 R-20
17.	Fuel Selector Valve Move selector to RIGHT and LEFT positions. Verify fuel flow.	✓	
18.	Alternate Induction Air Pull alternate induction air knob. Engine RPM and MAP should show a slight drop.	✓	30/15 Hg
19.	Alternator 2 Load Increase RPM to 2000. Check that LOW VOLT light is off. Ammeter indication shows no current discharge with full load applied to essential bus.	✓	5a.
20.	Engine Full Power Advance throttle to full forward. Engine RPM should indicate between 2625 and 2700 RPM in a no wind environment or with airplane nose perpendicular to wind.	✓	2650
21.	Fuel Flow Advance throttle to full forward. Verify fuel flow indicates approximately 26 to 29.5 gal/hr.		26.2
22.	Oil Temperature Indicates in the green arc.	✓	
23.	Cylinder Head Temperature Verify temperature indicates in the green range.	✓	
24.	Brakes Rudder pedal brakes should hold airplane stationary with no slipping at full power. Parking brake should hold airplane stationary with no slipping at full power.	✓	
25.	Propeller Governor Set throttle to propeller check (first) detent. Propeller governor should maintain engine RPM at approximately 2000 RPM.	✓	2010
26.	Engine Idle Move throttle control lever to full aft. Engine RPM should indicate between 600 and 750 RPM with the mixture full rich.	✓	
27.	Magneto Grounding Set engine speed to 1000 RPM. Engine should cease to fire when magneto momentarily switched to OFF position.	✓	
28.	Engine Cut Out and Shut Down Move mixture control lever slowly toward idle cutoff. Engine RPM should increase by 50 ± 20 RPM before engine begins to cut out. Move mixture control lever full aft to shut down engine.	✓	+25

Pennridge Aviaton Inc.
1100 N. Ridge Rd.
Perkasie, PA 18944

Aircraft Inspection Report

Inspection Performed by: PIC

Date:	10-29-07
Aircraft Registration Number:	993LL
Owner:	KIMEL
AC Make / Model:	SR 22 CIRRUS
AC Serial Number:	2220
Tach Time:	—
Hobbs Time:	198.8
Aircraft Total Time:	198.8
Engine Make / Model:	TCM 10-550-N
Engine Serial Number:	690055
Engine Time Since Overhaul:	198.8
Engine Total Time:	198.8
Type of Inspection:	Annual X 100 Hr
Time Since Last Inspection:	198.8
ELT Battery Due:	MAR 2013

Notes

Compression Test Results:
CYL 1 - 72 CYL 2 - 71 CYL 3 - 70 CYL 4 - 70 CYL 5 - 70 CYL 6 - 70

Date: 10-22-07

DISCREPANCY SHEET

N 993LL

Page 1 of 1

Discrepancy	Actions Taken	Initials
AIR BOX FULL OF DIRT	CLEANED	PSR
AIR FILTER DUE	REPLACED	PJS
NOSE START BUMPER TORN	REPLACED	PSR
#3 Rivet Missing eng. bottle	Replaced	PSR
MAIN TIRES UNEVEN WEAR	- FLIPPED	PSR
OIL CHANGE	CHANGED	PSR

Scheduled Inspection Report			
Make Cirrus Design	Model SR22	Serial Number 2220	Registration Number N993LL
Owner 993 LL AIR LLC.		Date 10-22-07	
Type of Inspection ANNUAL		Operating Time 1789	

Note: All references to "5-20" under the Chap-Sect column are to be understood as reference to Visual Inspection criteria defined above under Inspection Groups and Criteria.

	Pre-Inspection	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Operational/Functional Check Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. Make a record of all malfunctions and abnormalities for reference during the inspection. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	O X		PSB
2.	Review compliance status with current Federal Aviation Regulations. This includes inspection of the following: - Airplane Flight Manual - Aircraft Log Book - Registration Certificate - Weight and Balance Record - FAA Airworthiness Directives - Cirrus Design Service Documents	-	O X		PSB

	Engine Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	25 Hour Inspection After first 25 hours of operation on new, rebuilt, or overhauled engine, perform complete 100-Hour Engine Inspection in accordance with the manufacturer's approved Instructions For Continued Airworthiness.			1st 25 Hrs	
2.	Engine Cowling Remove and perform visual Inspection for cracks, distortion, and loose or missing fasteners.	71-10 5-20	O X		PSB
3.	Engine Compartment Visual Inspection for leaks.	5-20	X	50 Hrs	PSB
4.	Engine Oil Drain and change every 50 hours or 6 months, whichever occurs first.	12-10	X	50 Hrs	PSB
5.	Oil Sump Plug Visual Inspection for condition.	5-20	X		PSB

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
6.	Oil Filter Perform Inspection/Check - Oil Filter Particles every 50 hours or 6 months, whichever occurs first.	12-10	O X	50 Hrs	
7.	Oil Lines and Fittings Visual Inspection for leaks, security, chafing, dents, and cracks every 100 hours and after first 50 hours or 6 months of operation on new, rebuilt, or overhauled engine.	5-20	O X	1st 50 Hrs or 6 Mnths	
8.	Oil Cooler Fins Clean and perform Visual Inspection for cracking, bending, and general condition.	5-20	O X		
9.	Spark Plug Cable Leads Visual Inspection for chafing, corrosion, and deposits.	5-20	O X	50 Hrs	
10.	Engine Compression Functional Inspection in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Cyl # 1 3 5 2 4 6 P.S.I. 72 70 70 71 70 70 Master Orifice Reading:	Refer to TCM ICA	O X		
11.	Spark Plugs Inspect, clean, re-gap and rotate in accordance with the manufacturer's approved Instructions For Continued Airworthiness.	Refer to TCM ICA	O X		
12.	Magneto Functional Inspect in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Internal Inspection every 500 hours in accordance with the manufacturer's approved Instructions For Continued Airworthiness. Replace or overhaul every 4 years since new or last overhaul.	Refer to TCM ICA Timing 1788	O	Internal Inspect. 500 Hrs Rplc or Ovrhl at 4 years	
13.	Induction System Filter Visual Inspection for security, general condition, and cleanliness at 100 hours. Replace at Annual Inspection, at 200 hours, or when filter is more than 50% covered by foreign material.	71-60	O X	Annual, 200 Hrs, or 50% used	
14.	Fuel Injection Nozzles Visual Inspect nozzles and manifold valve for fuel stains, security, and proper venting every 100 hours. Every 300 hours and at first 100-Hour Inspection on new, rebuilt, or overhauled engine, remove and clean fuel injection nozzles in accordance with the manufacturer's approved Instructions For Continued Airworthiness.	5-20 Refer to TCM ICA	O D	1st 100 Hrs 300 Hrs	

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
15.	Gascolator Fuel Filter and Bowl Perform Servicing - Gascolator	28-20	X	1st 25 Hrs 50 Hrs	
16.	Fuel Pump Visual Inspection for leaks, security, and condition.	5-20	X		
17.	Flexible Fuel Lines Visual Inspection for leaks, security, and condition.	5-20	X		
18.	Battery 1 Perform Electrolyte Level Check. Topped All cells	12-10	X		
19.	Battery Platform, Terminals, and Cables Visual Inspection for security, corrosion, and general condition.	12-10	X		
20.	Wiring Visual Inspection for damaged wiring and clamps.	5-20	X		
21.	Cylinder Cooling Fins Visual Inspection for cracking, bending, and general condition.	5-20	X		
22.	Engine Baffling and Seals Visual Inspection for cracks, tears, and rips.	5-20	X		
23.	Air Intake Ducts Visual Inspection for general condition.	5-20	X	50 Hrs	
24.	Alternate Air Door Check operation of alternate air flapper valve.	71-60	X	50 Hrs	
25.	Throttle, Propeller, and Mixture Control Cable Visual Inspection for security and condition of cotter pins, castellated nuts, and oversized washers.	5-20	X		
26.	Exhaust System Perform Inspection/Check - Exhaust System. i-2.5 K 2.0	78-20	X	50 Hrs	
27.	Exhaust System Perform Adjustment/Test - Forward Ball Joints.	78-20	X		
28.	Exhaust Muffler/Heat Exchanger Perform Inspection/Check - Heat Exchanger.	78-20	X		
29.	Cabin Heat Box and Ducts Visual Inspection for soot, distortion, and general condition.	5-20	X		
30.	Breather Tube Visual Inspection for obstructions and security and no sagging of tube between clamp and baffle.	5-20	X	50 Hrs	
31.	Crankcase Visual Inspection for condition, leaks, and loose components.	5-20	X		
32.	Engine Mount Weldment Visual Inspection for weld cracks, corrosion, bending, and distortion.	5-20	X		

	Engine Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
33.	Engine Mount Weldment and Lower Mount Attach Fittings Visual Inspection for security. Verify torque.	5-20	X	1st Annual, 500 Hrs, Engine Install	
34.	Engine Mount Isolators Visual Inspection for cracking, splitting, and general condition.	5-20	O		
35.	Firewall and Seals Visual Inspection for cracks, condition, and security of attachments.	5-20	O		
36.	Alternators Visual Inspection for security and condition.	5-20	O		
37.	Alternator 1 Remove, disassemble, inspect, repair and test in accordance with the manufacturer's approved Instructions For Continued Airworthiness every 500 hours.	Refer to TCM ICA FLT		500 Hrs 1768	
38.	Alternator 2 Visual Inspection for security and condition. Perform Inspection/Check - Alternator 2.	24-30	O		
39.	Starter Visual Inspection for security and condition.	5-20	O		
40.	Master Control Unit Perform Inspection/Check - Master Control Unit.	24-30	O		
41.	Ice Protection Firewall Forward - Fluid Line, Bulkhead Fittings, Feeder Tube, Brackets, Clamps, and Proportioning Unit Visual Inspection for chafing, leaks, and security.	5-20	O		
42.	Engine Compartment Visual Inspection for loose nuts, bolts, screws, and parts.	5-20	O	50 Hrs	
43.	Air Conditioning Compressor Perform Inspection/Check - Compressor	21-50	O		
44.	Air Conditioning Compressor Perform Adjustment/Test - Compressor Drive Belt Tensioning	21-50	O		

EFFECTIVITY:
All

	Propeller Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Spinner Remove, clean and perform Visual Inspection for cracks and corrosion.	5-20	O X		
2.	Blades Visual Inspection for nicks, bends, cracks, gouges, erosion, and condition of tips.	5-20	O X		
3.	Blades Inspect blades for radial play or movement of blade tip.	61-10	X		
4.	Blades Inspect blade tracking.	61-10	X		
5.	Propeller Assembly - *Serials 0002 & subs w/ Hartzell Propeller* Lubricate in accordance with the manufacturer's approved Instructions For Continued Airworthiness.		X	12 Months	
6.	Hub Visual Inspection for cracks, corrosion, leaking oil or grease.	5-20	X		
7.	Slinger Ring Assembly Perform Operational Check - Slinger Ring Assembly	30-60	X		
8.	De-Ice Propeller Boot Visual Inspection for condition and security.	5-20	X		
9.	Blade Feed Tube Perform Inspection/Check - Blade Feed Tube Orientation.	30-60	X		
10.	Slinger Ring Feed Tube Perform Inspection/Check - Slinger Ring Feed Tube Orientation.	30-60	X		

	Cabin Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Cabin Access Panels: All Cabin Access Panels are removed during the cabin group inspection. It is recommended that the panels be removed one at a time, the access area cleaned, inspected, and if no discrepancies are found, the panel reinstalled.	06-00	O X		
2.	Cabin Windows and Windshield Clean and Visual Inspection for cracking, crazing, and general condition.	5-20	O X		
3.	Knobs, Switches, and Levers Visual Inspection for security, attachment and operation.	5-20	X		
4.	Cabin Heater Controls Check operation for freedom of movement.	5-20	X		
5.	Placards and Instrument Markings Visual Inspection for conformity, security, and condition.	11-20	X		

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
6.	Fire Extinguisher Perform Inspection/Check for condition and weigh.	26-20		Monthly	
7.	Cabin Access: Remove Glareshield. Remove MFD. Remove Cabin Seats Remove Cabin Carpet. Remove Kickplates. Remove Center Bolster Trim. Remove RH Mid-Console Trim. Remove 222 Bulkhead Interior Trim	 25-10 31-60 25-10 25-10 25-10 25-10 25-10 25-10			
8.	Upholstery Visual Inspection for security.	5-20			
9.	Crew Seats Perform Inspection/Check - Crew Seats.	25-10			
10.	Crew Seat Harness Perform Inspection/Check - Crew Seat Harness.	25-10			
11.	Rear Seat Harness Perform Inspection/Check - Passenger Seat Harness.	25-10			
12.	Seat Belt Inertia Reels Visual Inspection for security of brackets and bolts.	5-20		Annual	
13.	Seat Rails and Slides Visual Inspection for condition and lubricate.	12-20			
14.	Instrument Panel Visual Inspection for security of lines and wiring.	5-20			
15.	Avionics Visual Inspection of components, wiring, and for security.	5-20			
16.	Outside Air Temperature Gage/Clock Battery Replace.	34-10		24 Months	
17.	Control Yokes Visual Inspection for excessive play, security, and proper operation. Verify no noticeable freeplay in elevator or aileron input.	5-20			
18.	Rudder Pedals Visual Inspection for excessive play, security, and proper operation. Verify no noticeable freeplay in rudder or aileron input.	5-20			
19.	Rudder Pedal Torque Tube Bracket Perform Inspection/Check - Torque Tube Gap Tolerance	27-20			
20.	Brake Master Cylinders Visual Inspection for leaks and security.	5-20			
21.	Flexible Brake Lines Visual Inspection for leaks, security, and condition.	5-20			

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
22.	Parking Brake Valve and Control Cable Linkage Visual Inspection for leaks, security, chafing, and condition.	5-20			
23.	Cabin Air Control Assembly Perform Inspection/Check - Cabin Air Control Assembly	21-60		500 Hrs or 5 Years	
24.	Control Quadrant Service in accordance with AMM.	76-10		Annual	
25.	Fuel Selector Visual Inspection for operation.	5-20			
26.	Fuel Lines, Valves, and Gages Visual Inspection for chafing, obstruction, security, and general condition.	5-20			
27.	Cabin Doors and Strike Plates Visual Inspection for damage, operation, and security.	5-20			
28.	Door Latches Check operation of door latch mechanism.	5-20			
29.	Door Latches and Hinges Lubricate. 10W-30	12-20			
30.	Fresh Air Outlets and Heat Outlets Visual Inspection for condition and obstruction or blockage.	5-20			
31.	Air Ducts, Electrical Leads, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20			
32.	Pitot-Static System Floor and Center Console Water Traps Visual Inspection for contamination, obstruction or blockage.	5-20			
33.	Stall Warning Water Trap Visual Inspection for contamination, obstruction or blockage.	5-20			
34.	Circuit Breakers Perform Functional Check - Redundant Circuit Breakers	24-50			
35.	Wing Attachment Bolts Visual Inspection for condition, fit, and evidence of distress. L R	5-20			
36.	Cable Attachments, Cables, and Pulleys Visual Inspection for security, chafing, wear, and general condition.	5-20			
37.	Flap Actuation Motor and Attach Bracket Visual inspection for condition and security.	5-20			
38.	Ice Protection Proportioning Units and Plumbing Visual Inspection for chafing, leaks, security, and condition.	5-20			
39.	Ice Protection Filter Replace every 2 years or 1200 hours whichever occurs first.	30-05		NOT REACHED	

	Cabin Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
40.	Ice Protection Fluid Tank, Filter, Metering Pump, Drain Block, and Drain Valve Visual Inspection for security and leaks.	12-10	O		
41.	Fuselage Drainage Holes Visual Inspection for obstructions or blockage.	5-20	O		
42.	CAPS Parachute Compartment Visual Inspection for security, leaks, and general condition.	5-20	O		
43.	CAPS Activation Handle Mount and Cable Visual Inspection security, chafing, and wear.	5-20	O		
44.	Magnetometer Perform Functional Test - Magnetometer Calibration.	34-20		24 Months	
45.	Emergency Locator Transmitter MAR 2013 Functional Inspection in accordance with 14 CFR 91.207.	14 CFR 91.207	O		
46.	Altimeter Visual and Functional Inspection for condition and calibration in accordance with 14 CFR 91.411. DUE OCT 08 Perform Adjustment/Test - Altimeter.	14 CFR 91.411 34-10		24 Months	
47.	Transponder Visual and Functional Inspection for condition and calibration in accordance with 14 CFR 91.413. DUE OCT 08	14 CFR 91.413		24 Months	
48.	Air Conditioning Evaporator Perform Inspection/Check - Evaporator	21-50	O		
49.	Air Conditioning Condenser Perform Inspection/Check - Condenser	21-50	O		
50.	Air Conditioning Lines and Hoses Visual Inspection for leaks, security, and condition.	5-20	O		
51.	Perform Operational Test - Air Conditioning System	21-50	O		

	Radio Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Radio and Electronic Equipment Visual Inspection for proper installation, clearance, and security.	5-20	O		
2.	Wiring Visual Inspection for proper clearance, chafing, fraying, and routing.	5-20	O		
3.	Bonding and Shielding Visual Inspection for proper installation and condition.	5-20	O		
4.	Antennas Visual Inspection for condition and security.	5-20	O		

EFFECTIVITY:
All

	Fuselage and Empennage Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Empennage Access Panels Remove Empennage Access Panels LE1, LE2, RE1, RE2, RE3.	06-00	X		
2.	Skin Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure.	5-20	X		
3.	CAPS Exit Cover Visual Inspection of perimeter for cracking or crazing, and placard condition.	5-20	X		
4.	Vertical Stabilizer and Rudder Surfaces Visual Inspection for distortion, and condition.	5-20	X		
5.	Rudder System Perform Inspection/Check - Rudder System Rigging.	27-20	X		
6.	Rudder Bearings, Hinges, Horn, and Attachments Visual Inspection for security, condition, and freedom of movement.	5-20	X		
7.	Horizontal Stabilizer and Elevator Surfaces Visual Inspection for distortion, and condition.	5-20	X		
8.	Horizontal Stabilizer Access Panels and Inspection Hole Covers Visual Inspection for condition and security.	6-00 55-10	X		
9.	Elevator System Perform Inspection/Check - Elevator System Rigging.	27-30	X	1	
10.	~~Elevator Pitch Trim Cartridge - *Serials 0002 thru 0754*~~ NA S/N ~~Perform Servicing - Pitch Trim Cartridge Lubrication.~~	27-30 2220	O		
11.	Elevator Bearings, Hinges, Horn, and Attachments Visual Inspection for wear, condition, and freedom of movement.	5-20	X		

	Wing Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Wing Access Panels The following Wing Access Panels are removed during the cabin group inspection. It is recommended that the panels be removed one at a time, the access area cleaned, inspected, and if no discrepancies are found, the panel reinstalled. • *Serials 0002 thru 2333, 2335 thru 2419:* LW1, LW2, LW4, LW5, LW6, LW7, LW8, LW9, LW12, LW13, LW14, LW15, LW16, and RW1, RW2, RW4, RW5, RW6, RW7, RW8, RW9, RW12, RW13, RW14, RW16. *Serials 2334, 2420 & subs:* LW1, LW2, LW4, LW5, LW9, LW10, LW11, LW12, LW13, and RW1, RW4, RW5, RW9, RW10, RW12, RW13.	06-00	O		
2.	Skin Visual Inspection for general condition, deterioration, delamination, distortion, cracks, paint condition, and other evidence of failure.	5-20	O		
3.	Walkway Visual Inspection for condition.	5-20			
4.	Wing Leading Edge and Stall Strips Visual Inspection for foreign matter and debris.	5-20			
5.	Aileron Surfaces Visual Inspection for distortion, and condition.	5-20			
6.	Aileron Actuation Arm Visual Inspection for safetying, and condition.	5-20			
7.	Wing Tips Remove. Clean and perform Visual Inspection for cracking, rubbing, and general condition. LT RT	57-20			
8.	Main Landing Gear Fairings Remove. Clean and perform Visual Inspection on fairings and anti-chafe spacers for cracking, rubbing, and general condition.	32-10			
9.	Aileron Hinges, Hinge Bolts, Bearings, and Attachments Visual Inspection for security, freeplay, and binding.	5-20			
10.	Aileron System Rigging Perform Inspection/Check - Aileron System Rigging	27-10			
11.	Roll Trim Access Remove LH Aileron. Remove Aileron Cove Access Panel.	57-50 06-00			
12.	Roll Trim Cartridge Visual Inspection for positive clearance between trim cartridge and actuation pulley under full range of trim motor positions. Visual Inspection for minimum rod end thread engagement of 0.313 inch (0.79 cm). Visual Inspection for proper installation of safety wires and cotter pins on all fasteners.	27-10	O		

	Wing Group (Continued)	Chap-Sect Reference	Interval 100	Interval Special	Initials
13.	Flap Hinges, Hinge Bolts, Bearings, Rub Strips, and Attachments Visual Inspection for wear security, freeplay, and binding.	5-20	X		
14.	Flap System Perform Inspection/Check - Flap System Rigging	27-50	X		
15.	Pitot Mast and Static Lines Visual Inspection for security, condition, and obstruction.	5-20	X		
16.	Fuel Lines Visual Inspection for chafing, obstruction, security, and general condition.	5-20	X		
17.	Fuel Tank Vents Visual Inspection for condition and obstruction.	5-20	X		
18.	Fuel Cap Perform Functional Test - Fuel Cap Assembly.	28-10	X		
19.	Air Ducts, Electrical Leads, Lines, and Attaching Parts Visual Inspection for security, routing, chafing, deterioration, wear, and correct installation.	5-20	X		
20.	Aft Wing Attach Bracket Visual Inspection for corrosion. If corrosion evident, contact Cirrus Design for disposition. Reference 57-40 for access instructions.	5-20	X		

	Landing Gear Group	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Nose Landing Gear Fairing Remove. Clean and perform Visual Inspection for cracking, rubbing, and general condition.	32-20	O		
2.	Tires FLIPPED MAINS Visual Inspection for cuts, uneven or excessive wear, and slippage.	5-20			
3.	Tires M 60 / 40N Inspect for proper tire pressure.	12-10			
4.	Brake Disk Visual Inspection for corrosion, security, and general condition.	5-20			
5.	Brake Linings Perform Inspection/Check - Brake Linings.	32-42		50 Hrs	
6.	Brake Assembly Perform Inspection/Check - Brake Assembly. Replace O-rings upon reassembly.	32-42			
7.	Brake Fluid Reservoir Replenish.	12-10		50 Hrs	
8.	Brake Lines and Hoses Visual Inspection for leaks, chafing, security, and condition.	5-20			
9.	Wheels Remove, Visual Inspection for condition, repack bearings.	32-41			
10.	Wheels Visual Inspection for cracks, corrosion, and broken bolts.	32-41		Annual	
11.	Polymer Shock Absorbing Pucks, Puck Tray, and Attach Bolts Visual Inspection of pucks for cracking or splitting. Ensure attach bolts are perpendicular to puck tray and puck stack-up is in alignment.	5-20	O		
12.	Nose Gear Assembly Perform Inspection/Check - Nose Gear Assembly	32-20			
13.	Main Gear Assembly Visual Inspection for condition.	5-20			
14.	Main Gear Strut, Attachments, and Bolts Visual Inspection for cracking, splintering, condition, and security. Verify lower strut fairing stand-off securely attached.	32-10			

EFFECTIVITY:
All

	Return to Service	Chap-Sect Reference	Interval 100	Interval Special	Initials
1.	Close Access: Install Main Landing Gear Fairings. Install Nose Landing Gear Fairing. Install Cabin Access Panels. Install Cabin Carpet. Install RH Mid-Console Trim. Install Center Bolster Trim. Install Kickplates. Install Cabin Seats. Install Glareshield. Install MFD. Install 222 Bulkhead Interior Trim. Install Empennage Access Panels. Install Wing Access Panels Install LH Aileron. Install Aileron Cove Access Panel Install Wing Tips.	32-10 32-20 06-00 25-10 25-10 25-10 25-10 25-10 25-10 31-60 25-10 06-00 06-00 57-50 06-00 57-20	O		
2.	Verify all Airworthiness Directives complied with. 2007-20	14 CFR 91.403	X		
3.	Fuel Injection System Functional Inspection of Fuel Injection System in accordance with the manufacturer's approved Instructions For Continued Airworthiness after engine installation, every 100 hours, at annual, or fuel system component replacement.	Refer to TCM ICA	X	Engine Install, Annual, Fuel Sys Cmpnt Rplcmnt	
4.	Perform an airplane run-up in accordance with Operational/Functional Check in 5-30. After completing the Operational Check, perform a walk around to detect fluid leaks or other abnormalities.	05-30	X		
5.	Install Engine Cowling	71-10	X	50 Hrs	
6.	Verify airplane papers in proper order: - Airworthiness Certificate - Registration - Operating Handbook - Weight and Balance	14 CFR 91.203	O		

SHOULDER HARNESS AIR BAGS

Signature of Mechanic or Inspector Philip A Ball
Not required per 14 CFR § 43.11.

Certificate Number IA 2137996