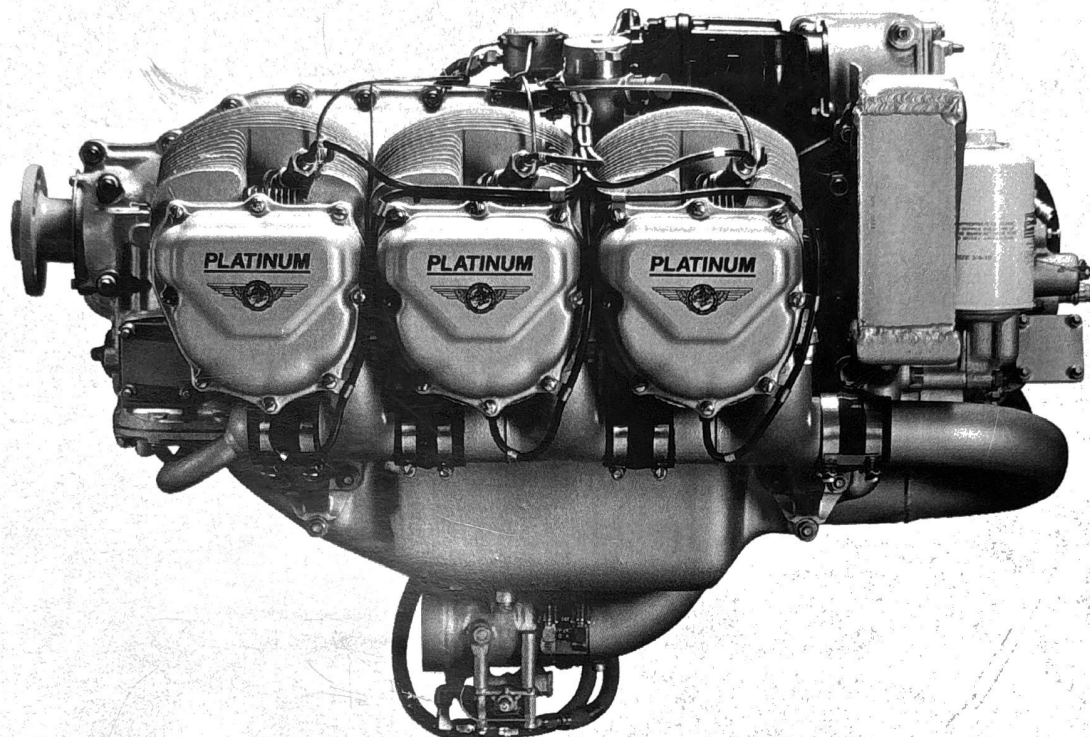


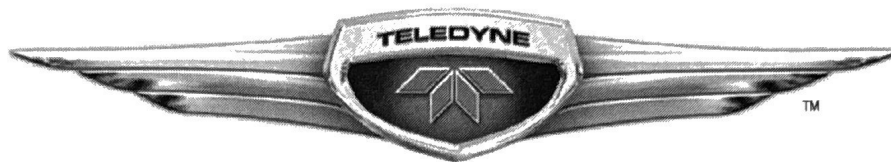
N174DL

PLATINUM ENGINE LOG BOOK



CONTINENTAL MOTORS

PLATINUM ENGINE LOG BOOK



CONTINENTAL MOTORS

**USE ONLY FUEL CONFORMING TO ASTM D910
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Printed: 02/26/2007

This engine model I0550N46, Serial No. 690850 was manufactured on 02/23/2007
by Teledyne Continental Motors in accordance with approved design data and the applicable requirements
of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all
changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



TELEDYNE CONTINENTAL MOTORS
A TELEDYNE TECHNOLOGIES COMPANY
PRODUCTION CERTIFICATE NO. 508

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.	
4/3/07	9	.8			THE FOLLOWING SUPPLEMENTAL TYPE CERTIFICATE NUMBER HAS BEEN INSTALLED ON THIS ENGINE SE10589SC CDC ⁵⁵ / _{CDC} on APR 04 2007 Cirrus Design Corporation Duluth, MN USA PC# 338CE

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

08, May 2007

Hobbs Time: 33.1 Flight Timer: 23.7

1. Drained oil and retained sample for analysis. Removed filter cut and inspected with no contamination noted. Installed new filter and added 8qts Phillips 20W-50 Mineral oil.
2. Safety wired TKS nuts as required.

Functional check satisfactory
James T. Markey A&P3166872

James T. Markey

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

05, June 2007

Hobbs Time: 62.7 Flight Timer: 48.6

TCM IO-550N

S/N: 690850

1. Drained oil, removed filter cut and inspected with no contamination noted. Installed new filter and added 8qts Aeroshell 15W-50 oil.

Run up and functional check satisfactory
James T. Markey 31668721A

James T. Markey

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

17, August 2007

Hobbs Time: 146.6 Flight Timer: 115.2

1. Drained oil, retained sample, removed filter cut and inspected with no contamination noted. Installed new filter and added 8qts Aeroshell 15W-50 oil.

Run up and functional check satisfactory
James T. Markey 31668721A

James T. Markey

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

12, November 2007

Hobbs Time: 206.6 Flight Timer: 164.1

1. Drained oil and retained sample for analysis. Removed filter cut and inspected with no contamination noted. Installed new filter and added 8qts Aeroshell 15W-50 oil.

Functional check satisfactory
Robert C. Betzler 31668811A

Robert C. Betzler

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	→				

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

14, February 2008
TCM IO-550N

Hobbs Time: 273.2 Flight Timer: 222.2
S/N: 690850

1. Drained oil and retained sample for analysis. Removed filter cut and inspected with no defect noted. Installed new filter and added 8qts Aeroshell 15W-50 oil.
2. Lubricated mixture control as required.

Run up and functional check satisfactory

James T. Markey 31668721A

James T. Markey

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

01, May 2008
TCM IO-550N

Hobbs Time: 338.1 Air hobbs: 284.2
S/N: 690850

1. Completed Annual Inspection IAW Cirrus Design 100hr/Annual Inspection checklist and Teledyne Continental Motors service manual.
2. Ran engine and recorded cylinder compressions: 1) 71/80 2) 74/80 3) 73/80 4) 68/80 5) 69/80 6) 75/80
3. Drained oil, retained sample for analysis, cut and inspected filter with no contamination noted. Installed new oil filter and added 8qts Aeroshell 15W-50 oil.
4. Removed and replaced all spark plugs with new.
5. Removed all six fuel injectors, cleaned and re-installed with new seals.
6. Removed and replaced RH exhaust manifold with new.
7. Removed and replaced LH front baffle with new.
8. Removed and replaced front spinner baffle with new.
9. Replaced and adjusted RH and LH Turbo support rods and brackets with new as required.
10. Replaced LH waste gate support bolt and mounting bracket with new.
11. Removed and replaced air filter cover with new.
12. Removed and replaced LH turbo heat shield with new.
13. Adjusted air intake sceet tube as required to prevent chafing.

Jm

North East Aero

97 Hangar RD Montgomery NY, 12549 (845) 457-1184

Cirrus Design SR22 N174DL S/N 2437

14. Replaced alternator #1 field wire end terminal with new.
15. Replaced mounting clamp for Reif engine pre-heater plug as required.
16. Complied with Tornado Alley SB08-01 Modification of exhaust elbow IAW SB instructions.
17. Drained and inspected gascolator with no contamination noted.
18. Inspected all oil lines and fittings.
19. Checked magneto to engine timing with proper condition noted.
20. Replaced intake air filter with new.
21. Completed AD list and complied with all outstanding AD's as required. Reference AD list dated 04/08.

*I certify this Engine was inspected in accordance with a 100hr/Annual inspection,
And found to in Airworthy condition.*

James T. Markey 31668721A

James T. Markey

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 →					

ADVANCED AIRCRAFT CENTER, INC.
14300 SW 129TH STREET
MIAMI, FLORIDA 33186
PHONE # 305-259-8291

Date:	6/15/2009	Total Time:	508.8	Flt Hobbs:	508.8	Hobbs:	545.4
Manufact:	TCM	Model:	IO550N46	Ser. No.:	690850	Reg:	N174DL

ENGINE ENTRY

- PERFORM ANNUAL/100HR INSPECTION PER THE CIRRUS SR22 INSPECTION MANUAL
- DRAINED OIL, REPLACED FILTER ELEMENT, INSPECTED OLD FITLER ELEMENT FOR METAL, NONE NOTED, SERVICED ENGINE WITH PHILLIPS 20W50 OIL
- COMPRESSION CHECK: #1 64/80, #2 61/80, #3 58/80, #4 64/80, #5 67/80, #6 74/80
- AD 2007-16-10 KELLY AEROSPACE TURBOCHARGER **D/N/A PER NON-TURBO**
- INSTALL TAT TURBO WASTEGATE LINKAGE CABLE ASSY P/N# 22-5650008
- INSTALL LEFT MAGNETO P/N# 10-500556-101 S/N# D07AA180 OVERHAULED BY EXECUTIVE ACCESSORIES, INC UNDER W/O# 34031
- INSTALL RIGHT MAGNETO P/N# 10-500556-101 S/N# D07AA187 OVERHAULED BY EXECUTIVE ACCESSORIES, INC UNDER W/O# 34030
- CLEAN & GAP ALL SPARK PLUGS
- CLEAN ALL FUEL INJECTION NOZZLES

MAINTENANCE RELEASE

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY, UNDER FAR 43 APPENDIX "D" ANNUAL/100HR INSPECTION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. #DL51309 DATE: 6/15/2009

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
FOR: ADVANCED AIRCRAFT CENTER, INC. PETER J. LO BELLO AP73543030IA

ADVANCED AIRCRAFT CENTER, INC.
14300 SW 129TH STREET
MIAMI, FLORIDA 33186
PHONE # 305-259-8291

Date:	12/22/2009	Total Time:	676.0	Flt Hobbs:	676.0	Hobbs:	701.5
Manufact:	TCM	Model:	IO550N46	Ser. No.:	690850	Reg:	N174DL

ENGINE ENTRY

- INSTALLED OVERHAULED #4 CYLINDER ASSY, P/N# 655932 S/N# 55809
- DRAINED OIL, INSTALL NEW FILTER ELEMENT, INSPECT OLD FILTER ELEMENT FOR METAL, NONE NOTED, SERVICED ENGINE WITH PHILLIPS 20W50 MINERAL OIL

MAINTENANCE RELEASE

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. #DL111209 DATE: 12/22/2009

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
FOR: ADVANCED AIRCRAFT CENTER, INC. PETER J. LO BELLO AP73543030IA

1030

RONSON AVIATION, INC

CRS EHHR538D
(609) 771-9500

TRENTON-MERCER AIRPORT
FAX (609) 771-0651

TRENTON, NJ 08628

REG #	N174DL	DATE:	8/14/2009
MAKE:	LYCOMING	W/O #:	24863
MODEL:		HM	554.0
S/N:		TT:	

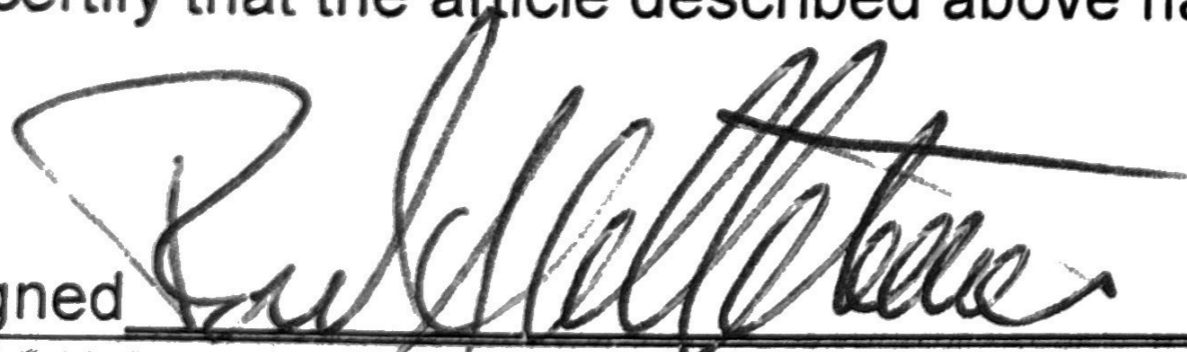
ENGINE LOG

1. CHANGED OIL AND FILTER OPENED REMOVED FILTER, NO METALAND INSTALLED CH48108-1 FILTER ADDED 8 QUARTS OF PHILLIPS 20-50 OIL.

MAINTENANCE RELEASE

Pertinent details of the inspection are on file at this agency under the work number shown above.
I certify that the article described above has been inspected and approved for return to service.

Signed



for RONSON AVIATION, INC. □ CRS EHHR538D

RONSON AVIATION, INC

CRS EHHR538D

TRENTON-MERCER AIRPORT

TRENTON, NJ 08628

IO550N46

r. o.:

Total Time		Time Since Last Overhaul	
Hrs.	Min.	Hrs.	Min.

Engine Service and Maintenance Record

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

ADVANCED AIRCRAFT CENTER, INC.
 14300 SW 129TH STREET
 MIAMI, FLORIDA 33186
 PHONE # 305-259-8291

Date:	5/17/2010	Total Time:	714.3	Flt Hobbs:	714.3	Hobbs:	735.9
Manufact:	TCM	Model:	IO550N46	Ser. No.:	690850	Reg:	N174DL

ENGINE ENTRY

- PERFORMED ANNUAL/100HR INSPECTION PER THE CIRRUS SR22 INSPECTION MANUAL
- DRAINED OIL, REPLACED FILTER ELEMENT, INSPECTED OLD FILTER ELEMENT FOR METAL, NONE NOTED, SERVICED ENGINE WITH PHILLIPS 20W50 MINERAL OIL
- COMPRESSION CHECK: #1 38/80, #2 60/80, #3 35/80, #4 65/80, #5 42/80, #6 67/80
- INSTALLED REPAIRED #1 CYLINDER P/N 655932 S/N 56421; REPAIRED BY CERTIFIED ENGINES UNLIMITED, INC. UNDER WORK ORDER NO. 34108
- INSTALLED REPAIRED #3 CYLINDER P/N 655932 S/N 56422; REPAIRED BY CERTIFIED ENGINES UNLIMITED, INC. UNDER WORK ORDER NO. 34108
- INSTALLED REPAIRED #5 CYLINDER P/N 655932 S/N 56423; REPAIRED BY CERTIFIED ENGINES UNLIMITED, INC. UNDER WORK ORDER NO. 34108
- INSTALLED LEFT MAGNETO P/N 10-500556-101 S/N D07AA180 AFTER REPAIR BY EXECUTIVE ACCESSORIES
- INSTALLED RIGHT MAGNETO P/N 10-500556-101 S/N D07AA187 AFTER REPAIR BY EXECUTIVE ACCESSORIES
- INSTALLED NEW #1 CYLINDER INTAKE LIFTER P/N R-653888
- CLEANED & GAPPED ALL SPARK PLUGS
- CLEANED ALL FUEL INJECTION NOZZLES

MAINTENANCE RELEASE

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY, UNDER FAR 43 APPENDIX "D" ANNUAL/100HR INSPECTION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. #DL041910
 DATE: 5/17/2010

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
 FOR: ADVANCED AIRCRAFT CENTER, INC. PETER J. LO BELLO AP73543030IA

ADVANCED AIRCRAFT CENTER, INC.
 14300 SW 129TH STREET
 MIAMI, FLORIDA 33186
 PHONE # 305-259-8291


Date:	9/11/2010	Total Time:	742.3	Flt Hobbs:	742.3	Hobbs:	767.7
Manufact:	TCM	Model:	IO-550-N	Ser. No.:	690850	Reg:	N174DL

ENGINE MAINTENANCE NOTES

- DRAINED OIL, REPLACED FILTER ELEMENT, INSPECT OLD FILTER ELEMENT FOR METAL, NONE NOTED, SERVICED ENGINE WITH PHILLIPS 20W50 OIL
- INSTALL NEW STARTER ADAPTER & GASKET P/N#s 642083A12 AND 653470 SEE FORM 8130
- INSTALL NEW STARTER P/N# 657596 S/N# 4C3-241019 SEE FORM 8130

MAINTENANCE RELEASE

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. #DL090810 DATE: 9/11/2010

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
 FOR: ADVANCED AIRCRAFT CENTER, INC. PETER J. LO BELLO AP73543036IA

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	→				


ADVANCED AIRCRAFT CENTER, INC.
 14300 SW 129TH STREET
 MIAMI, FLORIDA 33186
 PHONE # 305-259-8291

Date: 12/20/2010	Total Time: 767.0	Fit Hobbs: 767.0	Hobbs: 793.6
Manufact: TCM	Model: IO-550-N	Ser. No.: 690850	Reg: N174DL

ENGINE MAINTENANCE NOTES

1. DRAINED OIL, REPLACED FILTER ELEMENT, INSPECTED OLD FILTER ELEMENT FOR METAL; NONE NOTED; SERVICED ENGINE WITH PHILLIPS 20W50 OIL; NO LEAKS NOTED

MAINTENANCE RELEASE
 THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. #DL121710 DATE: 12/20/2010

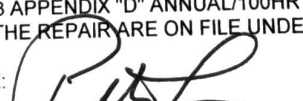
SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
 FOR: ADVANCED AIRCRAFT CENTER, INC. PETER J. LO BELLO AP735430361A

Advanced Aircraft Center, Inc
 14299 SW 127th St, Suite 101
 Miami, Florida 33186
 Ph: 305-259-8291 Fx: 305-259-8302

Date: 6/13/2011; Aircraft: N174DL; Type: Cirrus SR22; Total Time: 772.50; Engine - Type: IO-550-N(46), S/N: 690850, Time: 772.50

- 1) Perform Cirrus Annual/100Hr Inspection I/A/W The Cirrus SR22 Maintenance Manual
- 2) Compression Test: #1) 77/80, #2) 27/80, #3) 68/80, #4) 72/80, #5) 76/80, #6) 65/80
- 3) Drained Oil, Replaced Filter Element, Inspect Old Filter Element For Metal, None Noted, Serviced Engine With Phillips 20W50 Mineral Oil, Leak Check Ok
- 4) Took Oil Sample, Filled Out All Forms
- 5) Adjusted Oil Pressure Per TCM IO-550 Specs
- 6) Install New #2 Cylinder Assy P/N# 655932A4 S/N# AC11AB831 With All New Gaskets, "O" Rings & Hardware; Torqued Cylinder Assy As Per The TCM IO-550 Maintenance Manual
- 7) Adjust & Secure Mag Wires Away From Fuel Hard Lines
- 8) Removed & Cleaned #4 Rocker Cover, Install New Gasket P/N# 655705, Leak Check Ok
- 9) Removed Rust From Crank Shaft Flange, Treat, Prep & Paint To Match; Install New Propeller "O" Ring P/N# C-3317-228
- 10) Install New Right Waste Gate Pin P/N# MS20392-1C13
- 11) Install #2 Cylinder Continental Exhaust Lifter P/N# 653877 Overhauled By Aircraft Specialties Services, Inc Under W/O# 203010 Form Tracking # AS-203010, See Form 8130-3
- 12) Adjust & Secured All Exhaust Heat Shields

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY UNDER FAR 43 APPENDIX "D" ANNUAL/100HR INSPECTION AND IS APPROVED FOR RETURN TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING SHOP ORDER REFERENCE NUMBER 11-1186 DATE: 6/13/2011

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 

FOR: ADVANCED AIRCRAFT CENTER, INC PETER J. LO BELLO AP735430361A



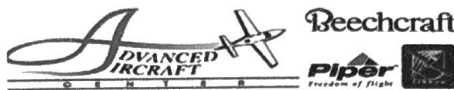
14299 SW 127th St, Suite 101
Miami, Florida 33186
Ph: 305-259-8291 Fx: 305-259-8302

Date: 10/05/2011; Aircraft: N174DL; Type: Cirrus SR22; Engine - Type: IO-550-N(46), S/N: 690850

- 1) Drained Oil, Replaced Filter Element, Inspect Old Filter Element For Metal, None Noted, Serviced Engine With Phillips 20W50 Mineral Oil, Leak Check Ok
- 2) Compression Check: #1) 71/80, #2) 70, #3) 66/80, #4) 67/80, #5) 70/80, #6) 70/80
- 3) Removed All Fuel Nozzles, Clean & Re-Install With 12Ea New "O" Rings P/N# 630979-9 & New Packings 6Ea P/N# 633958-3 And 2Ea P/N# 633958-5
- 4) Install 12Ea New Spark Plugs P/N# RHB32E
- 5) Upon Visual Inspection Of Cylinder #4, It Was Revealed That The Cylinder Assembly Was Cracked At The Exhaust Port Area; Install #4 Cylinder Assembly P/N# 655932A4 S/N# 57740 Serviceable/Overhauled By Certified Engines Unlimited, Inc Under W/O# 36204 Form Tracking Number 54767, See Form 8130, Install 3Ea Exhaust Gaskets P/N# 652458 And 1 Oil Tube Gasket P/N# 649407, Ops Check Ok
- 6) Hobbs: 822.7
Flt: 796.3

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING SHOP ORDER REFERENCE NUMBER 11-1329 DATE: 10/5/2011
SIGNATURE OF AUTHORIZED REPRESENTATIVE: *Peter J. Lo Bello*

FOR: ADVANCED AIRCRAFT CENTER, INC PETER J. LO BELLO AP73543036IA



14299 SW 127th St, Suite 101
Miami, Florida 33186
Ph: 305-259-8291 Fx: 305-259-8302

Date: 1/19/2012; Aircraft: N174DL; Type: Cirrus SR22; Total Time: 809.90; Engine - Type: IO-550-N(46), S/N: 690850, Time: 809.90

- 1) Drained Oil, Replaced Filter Element, Inspected Old Filter Element For Metal, None Noted, Serviced Engine With Phillips 20W50 Oil, Leak Check Ok

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING SHOP ORDER REFERENCE NUMBER 12-1430 DATE: 1/19/2012
SIGNATURE OF AUTHORIZED REPRESENTATIVE: *Peter J. Lo Bello*

FOR: ADVANCED AIRCRAFT CENTER, INC PETER J. LO BELLO AP73543036IA



14299 SW 127th St, Suite 101
Miami, Florida 33186
Ph: 305-259-8291 Fx: 305-259-8302

Date: 5/11/2012; Aircraft: N174DL; Type: Cirrus SR22; Total Time: 865.50; Engine - Type: IO-550-N(46), S/N: 690850, Time: 865.50

- 1) Drained Oil, Replaced Filter Element, Inspect Old Filter Element For Metal, None Noted, Serviced Engine With Phillips 20W50 Oil, Leak Check Ok

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING SHOP ORDER REFERENCE NUMBER 12-1546 DATE: 5/11/2012
SIGNATURE OF AUTHORIZED REPRESENTATIVE: *Peter J. Lo Bello*

FOR: ADVANCED AIRCRAFT CENTER, INC PETER J. LO BELLO AP73543036IA






 14299 SW 127th St, Suite 101
 Miami, Florida 33186
 Ph: 305-259-8291 Fx: 305-259-8302

Brought

Date: 7/18/2012; Aircraft: N174DL; Type: Cirrus SR22; Hobbs: 916.80; Total Time: 880.70; Engine - Type: IO-550-N(46), S/N: 690850

- 1) Perform Annual/100Hr Inspection I/A/W The Cirrus SR22 Maintenance Manual
- 2) Compressions: #1) 65/80, #2) 70/80, #3) 59/80, #4) 70/80, #5) 71/80, #6) 65/80
- 3) Drained Oil, Replaced Filter Element, Inspect Old Filter Element For Metal, None Noted, Serviced Engine With Phillips 20W50 Oil, Leak Check Ok
- 4) Took Oil Sample, Filled Out All Forms
- 5) Installed Overhaul Magneto, P/N # 10-500556-101, S/N # D09HA217, Under Work Order # WO1170000982. Installed Overhaul Magneto, P/N # 10-500556-101, S/N # D09FA059, Under Work Order # WO1170001203, by Quality Aircraft Accessories Inc.
- 6) Adjust & Secure #5 Cylinder Magneto Wire To Prevent Further Chaffing, Install New Clamp P/N# MS219MWDG5
- 7) Install All New Fuel Injector Line Hardware
- 8) D/N/A - No AVStar Fuel Servo Installed
- 9) D/N/A - No Affected Starter Adapter Installed
- 9) Wash Engine & Perform Corrosion X Treatment

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY UNDER FAR 43 APPENDIX "D" ANNUAL/100 HOUR INSPECTION AND IS APPROVED FOR RETURN TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING SHOP ORDER REFERENCE NUMBER 12-1609 DATE: 7/18/2012

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
 FOR: ADVANCED AIRCRAFT CENTER, INC PETER J. LO BELLO AP735430361A



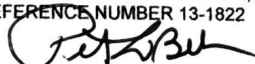



 14299 SW 127th St, Suite 101
 Miami, Florida 33186
 Ph: 305-259-8291 Fx: 305-259-8302

Date: 2/21/2013; Aircraft: N174DL; Type: Cirrus SR22; Total Time: 884.70; Engine - Type: IO-550-N(46), S/N: 690850, Time: 884.70

- 1) DRAINED OIL, REPLACED FILTER ELEMENT, INSPECTED OLD FILTER ELEMENT FOR METAL, NONE NOTED, SERVICE ENGINE WITH PHILLIPS 20W50 OIL, LEAK CHECK OK.

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING SHOP ORDER REFERENCE NUMBER 13-1822 DATE: 02/21/2013

SIGNATURE OF AUTHORIZED REPRESENTATIVE: 
 FOR: ADVANCED AIRCRAFT CENTER, INC PETER J. LO BELLO AP735430361A

Air 88 Inc. dba CROWNAIR
FAA Approved Repair Station #CWNR273K
3753 John J. Montgomery Dr.
San Diego, CA 92123

TCM Engine	IO-550-N(46)	S/N: 690850
N174DL	Cirrus Design SR22	S/N: 2437
3-28-13	Hobbs: 969.0 Hrs	Flight Hour Meter: 922.5 Hrs

Maintenance performed:

- Changed oil and filter. Serviced with 8 Qts of Phillips 20W-50 oil and installed new oil filter, P/N CH48108-1.
- Cut open old oil filter and inspected with no metal contamination found.
- Took oil sample for analysis.

I certify that with respect to the work performed this engine was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-13-06098.


 Authorized Representative

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.	

Brol

Air 88 Inc. dba CROWNAIR
 FAA Approved Repair Station #CWNR273K
 3753 John J. Montgomery Dr.
 San Diego, CA 92123

TCM Engine
 N174DL
 8-06-13

IO-550-N
 Cirrus SR22
 Hobbs: 1011.8 Hrs

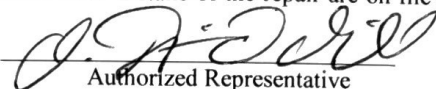
S/N: 690850
 S/N: 2437
 Flight Hour Meter: 964.2 Hrs

Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Compressions are as follows: #1. 76/80 #2. 74/80 #3. 70/80 #4. 68/80 #5. 76/80 #6. 74/80.
- Changed oil and filter. Serviced with 8 Qts of Phillips 20W-50 X/C oil and installed new CH48108-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Took oil sample and sent out for analysis.
- Complied with Cirrus Service Advisory SA 13-03 and TCM Critical Service Bulletin CSB08-3B by inspection of throttle and mixture control levers for looseness or free play and verified torqued on the retaining nut. No defects noted at this time. Due again @ 1064.2 Hrs Flight Hour Meter or August 2014.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-13-06219.


 Authorized Representative

Air 88 Inc. dba CROWNAIR
 FAA Approved Repair Station #CWNR273K
 3753 John J. Montgomery Dr.
 San Diego, CA 92123

TCM Engine
 N174DL
 1-27-14

IO-550-N(46)
 Cirrus Design SR22
 Hobbs: 1051.7 Hrs

S/N: 690850
 S/N: 2437
 Flight Hour Meter: 1005.1 Hrs

Maintenance performed:

- Changed oil and filter. Serviced with Phillips X/C 20W-50 oil and installed new oil filter, P/N CH48108-1.
- Took oil sample and sent in for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-14-06412.


 Authorized Representative

Engine Service and Maintenance Record

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

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

Bro

Air 88 Inc. dba CROWNAIR
 FAA Approved Repair Station #CWNR273K
 3753 John J. Montgomery Dr.
 San Diego, CA 92123

TCM Engine
 N174DL
 8-14-14

IO-550-N
 Cirrus SR22
 Hobbs: 1149.9 Hrs

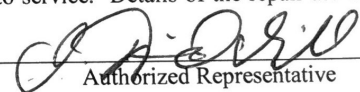
S/N: 690850
 S/N: 2437
 Flight Hour Meter: 1103.7 Hrs

Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105. Compressions are as follows: #1. 66/80 #2. 67/80 #3. 56/80 #4. 64/80 #5. 76/80 #6. 59/80.
- Changed oil and filter. Serviced with 8 Qts of Aeroshell W100 oil and installed new CH48108-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Took oil sample and sent out for analysis.
- **AD 2014-05-29** is N/A to this engine. No record of SAP replacement cylinders installed.
- Complied with TCM **CSB08-3C, Para. III**, by inspection of throttle and mixture control levers for looseness or free play and verified torqued on the retaining nut. No defects noted at this time. Due again @ 1203.7 Hrs Flight Hour Meter or August 2015.
- Removed #1 cylinder head drain line assy and cleaned, applied 2 part epoxy over hole and allowed to dry. Reinstalled drain line assy and adjusted to prevent further chaffing.
- Removed #3 and #5 exhaust heat shield and secured mount tabs, stop drilled cracks and reinstalled to engine.
- Repositioned loose right side exhaust turbo support brackets and attached with new bolt and spacers.
- Retorqued loose right exhaust tail pipe clamp and safety wired.
- Cleaned #2 cylinder exhaust riser, dye checked for crack and none found. Smoothed out affected area by light sanding.
- Removed broken rivet at baffle below alternator exhaust area and reattached using nut and screw.
- Stop drilled cracks on baffles near right intercooler adjacent to #3 cylinder and deburred holes.
- Removed carbon build up from oil breather hose and reattached to exhaust duct.
- Forward baffle cracked at mounting bolt adjacent to crankshaft seal. Removed bolt and stop drilled crack, reinstalled bolt with area washer to help strengthen area.
- Removed induction air filter, cleaned, re-oiled and reinstalled I/A/W K&N filter instructions.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-14-06670.


 Authorized Representative

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 in by:

Air 88 Inc. dba CROWNAIR
 FAA Approved Repair Station #CWNR273K
 3753 John J. Montgomery Dr.
 San Diego, CA 92123

TCM Engine
 N174DL
 12-04-14

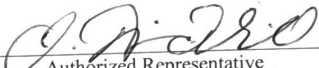
IO-550-N(46)
 Cirrus Design SR22
 Hobbs: 1157.3 Hrs

S/N: 690850
 S/N: 2437
 Flight Hour Meter: 1111.5 Hrs

Maintenance performed:

- Customer reported that he found oil on L/H rear exhaust on pre-flight. Removed engine cowling and found oil leaking at oil breather hose to exhaust pipe. Removed hose, cleaned area, reinstalled hose and torqued hose clamp. Re-cowled engine.
- Serviced TKS tank with 1 gallon of TKS fluid.

I certify that with respect to the work performed this engine was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-14-06851.


 Authorized Representative

Air 88 Inc. dba CROWNAIR
 FAA Approved Repair Station #CWNR273K
 3753 John J. Montgomery Dr.
 San Diego, CA 92123

TCM Engine
 N174DL
 3-06-15

IO-550-N(46)
 Cirrus Design SR22
 Hobbs: 1181.1 Hrs

S/N: 690850
 S/N: 2437
 Flight Hour Meter: 1136.9 Hrs

Maintenance performed:

- Replaced leaking oxygen servicing port valve core with new P/N 302DN and serviced oxygen system to 1950 PSI. Leak checks good.
- Serviced TKS system with 2.5 Gals of fluid as required.
- Performed functional check of TKS system and found system needs to be bled. Bled system and operated, all wing and tail panels working properly at this time. No fluid getting to prop ring. Customer denied further action at this time.
- Removed seat and trim panels to gain access to co-pilot's mic jack. Tightened loose nut and reinstalled mic jack. Reinstalled seat and trim panels that were removed for access.

I certify that with respect to the work performed this engine was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-15-07006.


 Authorized Representative

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.	

Bro

Air 88 Inc. dba CROWNAIR
 FAA Approved Repair Station #CWNR273K
 3753 John J. Montgomery Dr.
 San Diego, CA 92123

TCM Engine
 N174DL
 3-26-15

IO-550-N(46)
 Cirrus Design SR22
 Hobbs: 1195.0 Hrs

S/N: 690850
 S/N: 2437
 Flight Hour Meter: 1150.9 Hrs

Maintenance performed:

- Changed engine oil and filter. Serviced with 8 Qts of Aeroshell W100 oil and installed new CH48108-1 oil filter.
- Took oil sample and sent in for analysis.

I certify that with respect to the work performed this **engine** was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-15-07046.

J. R. Dill
 Authorized Representative

NO FURTHER ENTRIES ON THIS PAGE.

Date

Total Time

Time Since
Last Overhaul

Engine Service and Maintenance Record

Brou

Air 88 Inc. dba CROWNAIR
FAA Approved Repair Station #CWNR273K
3753 John J. Montgomery Dr.
San Diego, CA 92123

TCM Engine
N174DL
9-08-15

IO-550-N
Cirrus SR22
Hobbs: 1206.6 Hrs

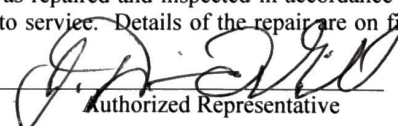
S/N: 690850
S/N: 2437
Flight Hour Meter: 1162.8 Hrs

Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 8 Qts of Aeroshell W100 oil and installed new CH48108-1 oil filter. Washed engine.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Took oil sample and sent out for analysis.
- Complied with **TCM SB03-3** by performing cylinder differential pressure test and borescope inspection, no defects noted at this time. Compressions results are as follows: #1. 72/80 #2. 72/80 #3. 60/80 #4. 62/80 #5. 70/80 #6. 70/80.
- Complied with **TCM CSB08-3C, Para. III**, by inspection of stainless steel throttle and mixture control levers and no defects noted at this time. Due again @ 1262.8 Hrs Flight Hour Meter or September 2016.
- Complied with **Tornado Alley Inc. Scheduled Maintenance Checks**, Report 215-10. No defects noted at this time. Due every 100 Hrs or 12 Mos whichever occurs first. Due again @ 1262.8 Hrs Flight Hour Meter or September 2016.
- Complied with **Tornado Alley Turbo (TAT) SB09-01** by inspection of exhaust manifolds for cracks around the turbo mount flanges, no defects noted at this time. Due every oil change.
- Complied with **TAT SB10-01** by inspection of hinge pin ends on the alternate air door for cracks, no defects noted at this time. Due every 12 Mos. Due again September 2016.
- Complied with **TAT SB10-02 Rev. B**, by inspection of tailpipe brackets per TATI Instructions for Continued Airworthiness, no defects noted at this time. Due every 12 Mos. Due again September 2016.
- Complied with **TAT SB11-04** by inspection and cleaning of the turbocharger oil supply inlet screens, no defects noted at this time. Due every 12 Mos. Due again September 2016.
- Complied with **TAT SB12-02** by inspection of engine driven fuel pump for leakage around the mixture control shaft, no defects noted at this time. Due every 50 Hrs. Due again @ 1212.8 Hrs Flight Hour Meter.
- Complied with **TAT SI08-01 Rev. A**, by removal of oil build up on crankcase breather discharge tube. Due every 50 Hrs. Due again @ 1212.8 Hrs Flight Hour Meter.
- Complied with **TAT SI08-04** by pressure test of cabin heat exchanger, no defects noted at this time. Due every 100 Hrs. Due again @ 1262.8 Hrs Flight Hour Meter.
- Complied with **TAT SI08-05 Rev. A**, by removing induction air filter, cleaned, serviced and reinstalled. Due every 100 Hrs or 12 Mos whichever occurs first. Due again @ 1262.8 Hrs Flight Hour Meter or September 2016.
- Complied with **TAT SI11-01** by inspection, cleaning and lubrication of the exhaust system. No defects noted at this time. Due every 12 Mos. Due again September 2016.
- Complied with **TAT SI11-03** by inspection of turbocharger support rods, bolts and brackets for wear, no defects noted at this time. Due every 12 Mos. Due again September 2016.
- Removed and replaced worn R/H slave wastegate with P/N 22-6150026 and torqued bolts to 70 in/lbs. Installed new wastegate gaskets P/N FG0120830 and new clevis pin P/N MS21046C4. Installed master control linkage. Ops checks good.
- Cylinder #2, #3, #4 and #6 fuel drain back tube is leaking at #4 B-nut. Tightened B-nut and replaced packing P/N 633958-3. Pressure test and no leaks at this time.
- Removed and reinstalled **R/H exhaust tailpipe assy** to facilitate weld repair to aft nipple weld. **installed new V-Band clamp P/N 11-1100023** and torqued to 60 in/lbs. Ops checked exhaust assy, verified torque on V-Band clamp and safetied clamp.
- Removed and replaced L/H upper support bracket for wastegate controller with P/N 22-625006. Reinstalled intercooler induction tubing. No defects noted.
- Removed and replaced L/H wastegate controller bolt that connects both upper and lower bracket with P/N MS21250-05020.
- Removed and replaced R/H intercooler to facilitate weld repair to forward inboard mounting tab.
- Drilled out and replaced broken rivet at left forward engine baffle mounting tab.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-15-07301.


Authorized Representative

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.	

Air 88 Inc. dba CROWNAIR
FAA Approved Repair Station #CWNR273K
3753 John J. Montgomery Dr.
San Diego, CA 92123

TCM Engine
N174DL
9-19-16

IO-550-N
Cirrus SR22
Hobbs: 1225.2 Hrs

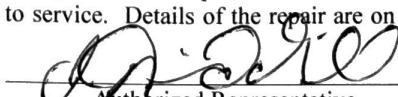
S/N: 690850
S/N: 2437
Flight Hour Meter: 1182.6 Hrs

Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105.
- Changed oil and filter. Serviced with 8 Qts of Aeroshell W100 oil and installed new CH48108-1 oil filter.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Took oil sample and sent out for analysis.
- Complied with **TCM SB03-3** Cylinder differential pressure test and borescope inspection, no defects noted at this time. Due every 100 Hrs or when cylinder problems are suspected. Due again @ 1282.6 Hrs Flight Hour Meter. Compression results are as follows: #1. 47/80 #2. 65/80 #3. 60/80 #4. 32/80 #5. 55/80 #6. 65/80.
- #4 cylinder compression is low. Gained access to cylinder head by removing intercooler and induction ducts. Removed exhaust rocker assy and valve springs and cleaned exhaust valve face and seat. Reinstalled valve springs and rocker using new lock tab P/N 501868 and installed rocker cover using new gasket P/N 655705. Reinstalled intercooler and induction ducts, performed ground run and leak checks good. Compression is now **70/80**.
- Complied with **TCM CSB08-3C, Para. III**, by inspection of stainless steel throttle and mixture control levers, no defects noted at this time. Due again @ 1282.6 Hrs Flight Hour Meter or September 2017.
- Complied with **TCM SB95-7A** Manifold valve cover inspection, no leaks detected at this time. Due at each scheduled maintenance interval or whenever fuel flow fluctuation is encountered.
- Complied with **Tornado Alley Inc. Scheduled Maintenance Checks**, Report 215-10. No defects noted at this time. Due every 100 Hrs or 12 Mos whichever occurs first. Due again @ 1282.6 Hrs Flight Hour Meter or September 2017.
- Complied with **Tornado Alley Turbo (TAT) SB09-01** by inspection of exhaust manifolds for cracks around the turbo mount flanges, no defects noted at this time. Due every oil change.
- Complied with **TAT SB10-01** by inspection of hinge pin ends on the alternate air door for cracks, loose rivets, etc., no defects noted at this time. Due every 12 Mos. Due again September 2017.
- Complied with **TAT SB10-02 Rev. B**, by inspection of tailpipe brackets per TATI Instructions for Continued Airworthiness, no defects noted at this time. Due every 12 Mos. Due again September 2017.
- Complied with **TAT SB11-04** by inspection and cleaning of the turbocharger oil supply inlet screens, no defects noted at this time. Due every 12 Mos. Due again September 2017.
- Complied with **TAT SB12-02** by inspection of engine driven fuel pump for leakage around the mixture control shaft, no defects noted at this time. Due every 50 Hrs. Due again @ 1232.6 Hrs Flight Hour Meter.
- Complied with **TAT SI08-01 Rev. A**, by removal of oil build up on crankcase breather discharge tube. Due every 50 Hrs. Due again @ 1232.6 Hrs Flight Hour Meter.
- Complied with **TAT SI08-04** by pressure test of cabin heat exchanger, no defects noted at this time. Due every 100 Hrs. Due again @ 1282.6 Hrs Flight Hour Meter.
- Complied with **TAT SI08-05 Rev. A**, by removing induction air filter, cleaned, serviced and reinstalled. Due every 100 Hrs or 12 Mos whichever occurs first. Due again @ 1282.6 Hrs Flight Hour Meter or September 2017.
- Complied with **TAT SI11-01** by inspection, cleaning and lubrication of the exhaust system. No defects noted at this time. Due every 12 Mos. Due again September 2017.
- Complied with **TAT SI11-03** by inspection of turbocharger support rods, bolts and brackets for wear, no defects noted at this time. Due every 12 Mos. Due again September 2017.
- Removed and replaced broken alternate air door switch with new P/N ETI-B-703-SR, adjusted switch and checked operation, checks good at this time.
- Secured several engine heater probe wires with RTV as required.
- Removed and replaced worn oil filler cap gasket with new P/N 642892.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-16-07755.



 Authorized Representative

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 →

CROWNAIR
FAA Approved Repair Station #CWNR273K
3753 John J. Montgomery Dr.
San Diego, CA 92123

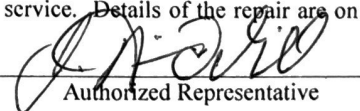
TCM Engine	IO-550-N	S/N: 690850
N174DL	Cirrus SR22	S/N: 2437
10-16-17	Hobbs: 1249.8 Hrs	Flight Hour Meter: 1207.9 Hrs

Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105. Researched ADs through bi-weekly issue of this date, all ADs are in compliance at this time.
- Changed oil and filter. Serviced with 8 Qts of Aeroshell W100 oil and installed new CH48108-1 oil filter. Washed engine.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Took oil sample and sent out for analysis.
- Complied with **TCM SB03-3** by performing cylinder differential pressure test and borescope inspection, no defects noted at this time. Compressions results are as follows: #1. 64/80 #2. 68/80 #3. 58/80 #4. 74/80 #5. 72/80 #6. 66/80.
- Complied with **TCM CSB08-3C, Para. III**, by inspection of stainless steel throttle and mixture control levers and no defects noted at this time.
- Complied with **Tornado Alley Inc. Scheduled Maintenance Checks**, Report 22-6460004. No defects noted at this time.
- Complied with **Tornado Alley Turbo (TAT) SB09-01** by inspection of exhaust manifolds for cracks around the turbo mount flanges, no defects noted at this time.
- Complied with **TAT SB10-01** by inspection of hinge pin ends on the alternate air door for cracks, no defects noted at this time.
- Complied with **TAT SB10-02 Rev. B**, by inspection of tailpipe brackets per TATI Instructions for Continued Airworthiness, no defects noted at this time.
- Complied with **TAT SB11-04** by inspection and cleaning of the turbocharger oil supply inlet screens, no defects noted at this time.
- Complied with **TAT SB12-02** by inspection of engine driven fuel pump for leakage around the mixture control shaft, no defects noted at this time.
- Complied with **TAT SI08-01 Rev. A**, by removal of oil build up on crankcase breather discharge tube.
- Complied with **TAT SI08-04** by pressure test of cabin heat exchanger, no defects noted at this time.
- Complied with **TAT SI08-05 Rev. A**, by removing induction air filter, cleaned, serviced and reinstalled.
- Complied with **TAT SI11-01** by inspection, cleaning and lubrication of the exhaust system. No defects noted at this time.
- Complied with **TAT SI11-03** by inspection of turbocharger support rods, bolts and brackets for wear, no defects noted at this time.
- Removed and replaced all spark plugs with new P/N URHB32E, performed ground run, mag checks were good.
- Replaced #5 exhaust shroud with new P/N ETI-G2-20 and secured with new band clamp.
- Replaced worn out heat exchanger scat tube with new section of #5 scat and secured.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-17-08123.



 Authorized Representative

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.

CROWNAIR

FAA Approved Repair Station #CWNR273K

3753 John J. Montgomery Dr.

San Diego, CA 92123

TCM Engine
N174DL
12-21-18

IO-550-N
Cirrus SR22
Hobbs: 1267.6 Hrs

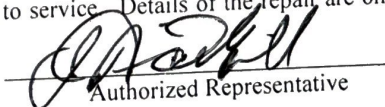
S/N: 690850
S/N: 2437
Flight Hour Meter: 1226.9 Hrs

Maintenance performed:

- Completed **Annual Inspection** using Crownair Aviation Annual/100 Hour Inspection Checklist, Form CA 105. Researched ADs through bi-weekly issue of this date. all ADs are in compliance at this time.
- Changed oil and filter. Serviced with 8 Qts of Aeroshell W100 oil and installed new CH48108-1 oil filter, torqued and safety wired. Performed ground run, leak checks good. Reinstalled engine cowl.
- Cut open old oil filter and inspected with no metal contamination found at this time.
- Took oil sample and sent out for analysis.
- Complied with cylinder differential pressure test and borescope inspection, no defects noted at this time. Compressions results are as follows: #1. 65/80 #2. 68/80 #3. 62/80 #4. 65/80 #5. 74/80 #6. 72/80.
- Complied with TCM inspection of stainless steel throttle and mixture control levers and no defects noted at this time.
- Complied with **TCM SB95-7A** Manifold valve cover inspection, no defects noted.
- Complied with **TCM SB669** Magneto distributor gear block inspection, no defects noted.
- Complied with **Tornado Alley Inc. Scheduled Maintenance Checks**, Report 22-6460004 Rev. C. No defects noted at this time.
- Complied with **Tornado Alley Turbo (TAT) SB09-01** by inspection of exhaust manifolds for cracks around the turbo mount flanges, no defects noted at this time.
- Complied with **TAT SB10-01** by inspection of hinge pin ends on the alternate air door for cracks. no defects noted at this time.
- Complied with **TAT SB10-02 Rev. B**, by inspection of tailpipe brackets per TATI Instructions for Continued Airworthiness, no defects noted at this time.
- Complied with **TAT SB11-04** by inspection and cleaning of the turbocharger oil supply inlet screens, no defects noted at this time.
- Complied with **TAT SB12-02** by inspection of engine driven fuel pump for leakage around the mixture control shaft. no defects noted at this time.
- Complied with **TAT SI08-01 Rev. A**, by removal of oil build up on crankcase breather discharge tube.
- Complied with **TAT SI08-04** by pressure test of cabin heat exchanger. no defects noted at this time.
- Complied with **TAT SI08-05 Rev. A**, by removing induction air filter. cleaned, serviced and reinstalled.
- Complied with **TAT SI11-01 Rev. A**, by inspection, cleaning and lubrication of the exhaust system. No defects noted at this time.
- Complied with **TAT SI11-03** by inspection of turbocharger support rods, bolts and brackets for wear, no defects noted at this time.
- **CMI SB18-04** Replacement of cylinder through bolt flanged nuts with Makers Mark "ZB" is N/A. part not installed.
- Replaced Right forward exhaust heat shield with new P/N ETI-G2-20-21.
- Reinstalled engine driven fuel pump P/N ETI-SR22-2-11 S/N 063 after repair by Great Planes Fuel Metering. Reinstalled all items removed for access. Performed ground run and adjusted fuel to 37GPH. Leak checks good. This "repair" complies **TATI SB12-02** 400 Hour / 5 Year mixture control shaft o-ring replacement.

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

I certify that only the work requested by the owner/operator and listed above was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service. Details of the repair are on file at this agency under Work Order No. PA-18-08418.


Authorized Representative

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.	

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Flying Cloud Airport
 14801 Pioneer Trail
 Eden Prairie, MN 55347
 PH: 952-641-2020

A/C Make/Model: Cirrus SR22
 A/C S/N: 2437
 Engine Model: IO-550-N
 Engine S/N: 690850

N174DL
 1/13/2021
 Work order 13603

Hobbs: 1433.4
 ACTT: 1411.5
 Engine TT: 1411.5

Completed the following Engine Maintenance and/or Inspection(s):

Inspections:

- Completed Annual inspection this date referencing Cirrus SR-22 AMM 5-20 and FAR 43 Appendix D.
- Performed compression check of engine cylinders #1: 54/80 #2: 71/80 #3: 50/80 #4: 66/80 #5: 62/80 #6: 54/80, MO 43 PSI.

Time Limited Items:

- Removed L/H magneto P/N: 10-500556-101 S/N: D09FA059. Installed Overhauled magneto P/N: 10-500556-101 S/N: D09FA059 with new gasket P/N: 649954. Reference Aircraft Electrical Components W/O: 18295 12/21/2021. Timed magneto to engine to 21.2* BTDC. Operational and leak check satisfactory. Ref TCM standard practice manual M-0 Section and 10-5.2.
- Removed R/H Magneto P/N: 10-500556-101 S/N: D09HA217. Installed Overhauled magneto P/N: 10-500556-101 S/N: D09HA217 with new gasket P/N: 649954. Reference Aircraft Electrical Components W/O: 18295 dated 12/21/2020. Timed magneto to engine to 21.2* BTDC. Ref TCM standard practice manual M-0 Section and 10-5.2.
- Completed 100 hr lubrication items. Ref Cirrus SR-22 AMM 12-20.
- Completed 200 hour lubrication items. Ref Cirrus SR22 AMM Ch. 12-20

AD's & Service Bulletins:

- Reviewed AD's and SB's through Bi-Weekly 2021-01
- Tornado Alley Turbo SB10-01:** Completed 12 month Tornado Alley Turbo SB10-01 inspection of hinge pin ends on the alternate air door. Inspected alternate air door hinge for retention, no defects noted. Also inspected alternate air door hinge for cracking and loose rivets, no defects noted. Ref. Tornado Alley Turbo SB10-01
- Tornado Alley Turbo SB10-02:** Completed 12 month Turbo SB 10-02 inspection of tail pipe brackets. Visually inspected tail pipe brackets. No defects noted. Ref Tornado Alley Turbo SB10-02.
- Tornado Alley Turbo SB11-04:** Completed 12 month Tornado Alley Turbo SB11-04 inspection and clean of the turbo charger oil inlet screens. Removed the FS-167 valve assembly. Cleaned adapter screen with solvent. Reassembled FS-167 Valve Assembly. Installed the FS-167 onto the turbo. Ref Tornado Alley Turbo SB11-04.
- Tornado Alley Turbo S111-01:** Completed 12 month Tornado Alley Turbo S111-01 inspect clean and lubricate exhaust system. Visually inspected. No defects found. Ref Tornado Alley Turbo S111-01, Revision A
- Tornado Alley Turbo S108-05:** Complied with 12 month Tornado Alley Turbo S108-05 by installation of new induction air filter P/N: 33-2022. Ref Tornado Alley Turbo S108-05
- Tornado Alley Turbo S108-04:** Completed 100 HR Tornado Alley Turbo S108-04 pressure test of cabin heat exchanger . Performed pressure test of cabin heat exchangers, no defects noted. Ref Tornado Alley Turbo S108-04.
- Tornado Alley Turbo S111-03:** Completed 12 month Tornado Alley Turbo S111-03 inspection of turbocharger support rods, bolts and brackets for wear. Removed turbocharger and waste gate support bolts. Inspected bolts and brackets for wear. No defects noted. Ref Tornado Alley Turbo S111-03.
- Tornado Alley Turbo SB12-02:** Completed 50 HR Tornado Alley Turbo SB12-02 inspection of engine driven fuel pump for leakage around mixture control shaft. Inspected engine driven fuel pump for leakage around mixture control shaft. Ref Tornado Alley Turbo SB12-02
- Tornado Alley Turbo SB09-01:** Complied with Tornado Alley Turbo SB09-01 inspection. No defects found. Ref Tornado Alley Turbo SB09-01.
- Continental CSB08-3C:** Complied with 100 HR Continental CSB08-3C paragraph III, inspection of the stainless steel throttle and mixture control levers. No defects found. Ref Continental CSB08-3C paragraph III
- Continental TCM SB 95-7A:** Complied with 50 HR TCM SB 95-7A manifold valve cover inspection. No leaks found. Ref Continental Motors SB95-7A

Maintenance & Service Items:

- Drained engine oil. Removed cut open and inspected oil filter, no defects noted. Installed new oil filter P/N: AA48108 and serviced engine with 7 quarts of Phillips 20W-50 oil.
- Removed gascolator. Cleaned screen and reinstalled gascolator with new o-rings MS29513-137 and NAS1523-8B. Leak check satisfactory. Reference Cirrus SR-22 AMM 28-20.
- Removed and cleaned fuel injectors. Installed fuel injectors using new o-rings, new copper washers, and new rubber washers. Reference Continental Aircraft Engine Maintenance Manual Publication M-0, Ch. 6-4.17
- Adjusted manifold pressure to within limits at this time. Reference TAT Document number 22-646004 pg 20-30.
- Removed left rear baffle from engine. Fabricated 2 doublers from .050 2024-T3 sheet, drilled up and riveted to baffle. Installed baffle on engine ref. AC43.13-1b chapter 4.
- Fabricated and installed doubler on left forward baffle under reef plug adel clamp. Ref. AC43.13-1b chapter 4.
- Fabricated and installed doubler on front right baffle along upper edge & by #5 cylinder with MAN426-3-3 rivets. Reference AC43.13-1b Chapter4.
- Removed front right baffle from engine. Removed broken rivet remains from previously installed doubler. Installed new MS20470AD4-6 rivets. Trimmed edge of hole for vent to provide more clearance. Installed baffle on engine. Reference AC43.13-1b chapter 4.
- Fabricated doubler in the aft right engine baffle from 2024 T3 0.04" Aluminum. Installed Doubler on R/H aft baffle with MS20470AD4-3.5 rivets. Installed Reference AC43.13-1b Chapter 4.
- Removed starter. Replaced o-ring P/N: AS3578-038 on starter. Installed starter. Reference Cirrus SR22 AMM ch. 80-10 Reference Continental MM appendix B table B-2
- Removed L/H wastegate assembly P/N: 470842-9004 S/N: KAN00603. Installed overhauled (Reference Main Turbo Systems W/O: 59959 dated 12/07/2020.) L/H wastegate assembly P/N: 470842-9004 S/N: KJN00448 with new gaskets P/N: FG0120830. Operational and Leak check satisfactory. Reference Tornado Alley Turbo ICA Document Number 22-6460004.
- Installed new spark plug P/N: URHB32E in cylinder #1.
- Installed new wastegate interconnect cable pins P/N: MS20392-1C13 and MS20392-1C25. Reference Tornado Alley Turbo ICA Document Number 22-6460004.
- Post maintenance operational and leak check found to be satisfactory.

I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and/or inspected in accordance with current FAA regulations and was determined to be in airworthy condition and is approved for return to service with respect to the work performed. Pertinent details of this repair and/or inspection are on file at this repair station under Work Order # 13603 Dated 1/13/2021

Authorized Signatures: Bradley S Corso Bradley S Corso

For Premier Jet Center FAA CRS #6EXR899B

End



Date
 Brought Forward

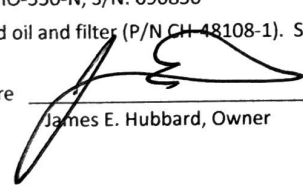
Date: 5/02/2024; Aircraft: N174DL; Type: SR22; S/N: 2437; Hobbs: 1653.0; Tach: 1588.8; Total Time: 1588.8;
 Engine - Type: IO-550-N(46), S/N: 690850, Time: 1588.8, SMOH: 1588.8
 Shop Order #: 24-12033
 Performed Annual / 100 Hr inspection of Engine IAW CDC AMM 5-20.
 Researched engine ADs thru current bi-weekly: 2024-08.

Record
 Inspections,

- Complied with the following S.B.s:
- 1) TAT SB11-04 by cleaning both turbocharger oil inlet screens. Next cleaning due: Next Annual.
 - 2) TAT SI08-01 Rev.A by cleaning crankcase breather tube in exhaust pipe. Next cleaning due: every 50 hrs. Every 50 hrs. 1638.8 Hr.s FLT. time
 - 3) TAT SB-09-01 by visual inspection of exhaust manifolds for cracks. Found right manifold cracked. Installed a new R/H exhaust manifold using all new gaskets. Ref. TATI Installation Instructions. Inspect Every 50 hrs. Next inspection due: 1638.8 Hr s FLT. time
 - 4) TAT SI-10-01 by visual inspection of alternate air door hinge for cracks and loose rivets. Next inspection due: Next Annual.
 - 5) TAT SB-11-03 by inspection of turbocharger support fasteners, rods, and bushings. Next inspection due: Next Annual.
 - 6) TAT SI-11-01 by inspection and lubing of exhaust slip joints. Next inspection and lube due: next oil change
 - 7) TAT SB12-02 by visual inspection of fuel leakage at mixture control shaft in fuel pump. Removed engine driven fuel pump and sent in for o-ring replacement. Re-installed engine driven fuel pump after o-ring replacement. See 8130 in ship's records. Engine run up, leak and ops check ok. Next visual inspection due: Every 50 hrs. 1638.8 Hr.s FLT. time. O-ring replacement due every 5th Annual or 400 hours.
 - 8) TAT SB-08-02 by inspection of underside of intake Y-pipe for contact of engine backbone.
 - 9) TAT SI-08-05 by cleaning and treating K&N air filter. Next air filter recharge due: Every 100 hours or next Annual.
 - 10) TAT SB-10-02 by visual inspection of exhaust pipe hangars for cracks. Inspect per T.A.T.I. I.C.A. Replaced any worn clevis pins on slave waste gate. Changed engine oil and filter, Tempest AA48108-2. Serviced with 8 qts of Phillips 20W50XC engine oil. Performed particulate inspection on filter, checked good. Ops and leak checks good. All work IAW CDC AMM. Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 76/80, #2 74/80, #3 72/80, #4 76/80, #5 76/80, #6 75/80, master orifice reading of 68/80. Replaced exhaust valve rotator in #1 cylinder. Work performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs. Checked magneto to engine timing IAW TCM overhaul manual. Cleaned main fuel screen and drained all fuel sumps. Checked condition of accessories, engine mounts, fluid lines, wires, and engine baffling. Inspected compressors, intake and turbos, exhaust systems. Lubed all engine controls. Cleaned and checked cowling. Engine run up, ops, and leak check ok. Set up RPM, Fuel Flow, and Manifold Pressure per TATI I.C.A.
- I certify that this Engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in an airworthy condition.

Signature: 
 James Imberg A&P 2751176

Date: 8/3/2024
 Aircraft: N174DL; Type: SR22TN; S/N: 2437 Hobbs: 1701.3 Flight: 1627.3
 Engine: IO-550-N, S/N: 690850
 Changed oil and filter (P/N CH 48108-1). Serviced with 8 quarts Phillips 20W50 X/C. Operational and leak checks good.

Signature: 
 James E. Hubbard, Owner



Record
Inspections

Date

Date: 5/02/2024; Aircraft: N174DL, Type: SR22; S/N: 2437; Hobbs: 1653.0; Tach: 1588.8; Total Time: 1588.8;
Engine - Type: IO-550-N(46), S/N: 690850, Time: 1588.8, SMOH: 1588.8
Shop Order #: 24-12033

Brought For

Performed Annual / 100 Hr inspection of Engine IAW CDC AMM 5-20
Researched engine ADs thru current bi-weekly 2024-08.
Complied with the following S B s:
1) TAT SB11-04 by cleaning both turbocharger oil inlet screens. Next cleaning due: Next Annual.
2) TAT SI08-01 Rev A by cleaning crankcase breather tube in exhaust pipe. Next cleaning due: every 50 hrs. Every 50 hrs. 1638.8 Hr.s FLT. time
3) TAT SB-09-01 by visual inspection of exhaust manifolds for cracks. Found right manifold cracked. Installed a new R/H exhaust manifold using all new gaskets. Ref. TATI Installation Instruction
Inspect Every 50 hrs. Next inspection due: 1638.8 Hr.s FLT. time
4) TAT SI-11-01 by visual inspection of alternate air door hinge for cracks and loose rivets. Next inspection due: Next Annual
5) TAT SB-11-03 by inspection of turbocharger support fasteners, rods, and washings. Next inspection due: Next Annual.
6) TAT SI-11-01 by inspection and lubing of exhaust slip joints. Next inspection and lube due: next oil change
7) TAT SB12-02 by visual inspection of fuel leakage at mixture control shaft in fuel pump. Removed engine driven fuel pump and seal for o-ring replacement.
Re-installed engine driven fuel pump after o-ring replacement. See 8130 in ship's records. Engine run up, leak and ops checks good.
Next visual inspection due: Every 50 hrs. 1638.8 Hr.s FLT. time.
O-ring replacement due every 5th Annual or 400 hours.
8) TAT SB-08-02 by inspection of underside of intake Y-pipe for contact of engine backbone.
9) TAT SI-08-05 by cleaning and treating K&N air filter. Next air filter recharge due: Every 100 hours or next Annual.
10) TAT SB-10-02 by visual inspection of exhaust pipe hangars for cracks. Inspect per T.A.T.I. I.C.A.
Replaced any worn clevis pins on slave waste gate.
Changed engine oil and filter. Tempest AA48108-2. Serviced with 8 qts of Phillips 20W50XC engine oil.
Performed particulate inspection on filter, checked good. Ops and leak checks good. All work IAW CDC AMM.
Performed engine cylinder compression and borescope inspections, no discrepancies noted. Compressions as follows: #1 76/80, #2 74/80, #3 72/80, #4 76/80, #5 76/80, #6 75/80, master orifice reading of 68/80. Replaced exhaust valve rotator in #1 cylinder. Work performed IAW TCM MM and SB 03-3. Cleaned, gapped, tested, and rotated spark plugs. Checked magneto to engine timing IAW TCM overhaul manual. Cleaned main fuel screen and drained all fuel sumps. Checked condition of accessories, engine mounts, fluid lines, wires, and engine baffling. Inspected compressors, intake and turbos, exhaust systems. Lubed all engine controls. Cleaned and checked cowling. Engine run up, ops, and leak check ok. Set up RPM, Fuel Flow, and Manifold Pressure per TATI I.C.A.
I certify that this Engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in an airworthy condition.

Signature:

James Imberg
James Imberg A&P 2751176

NOTED
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