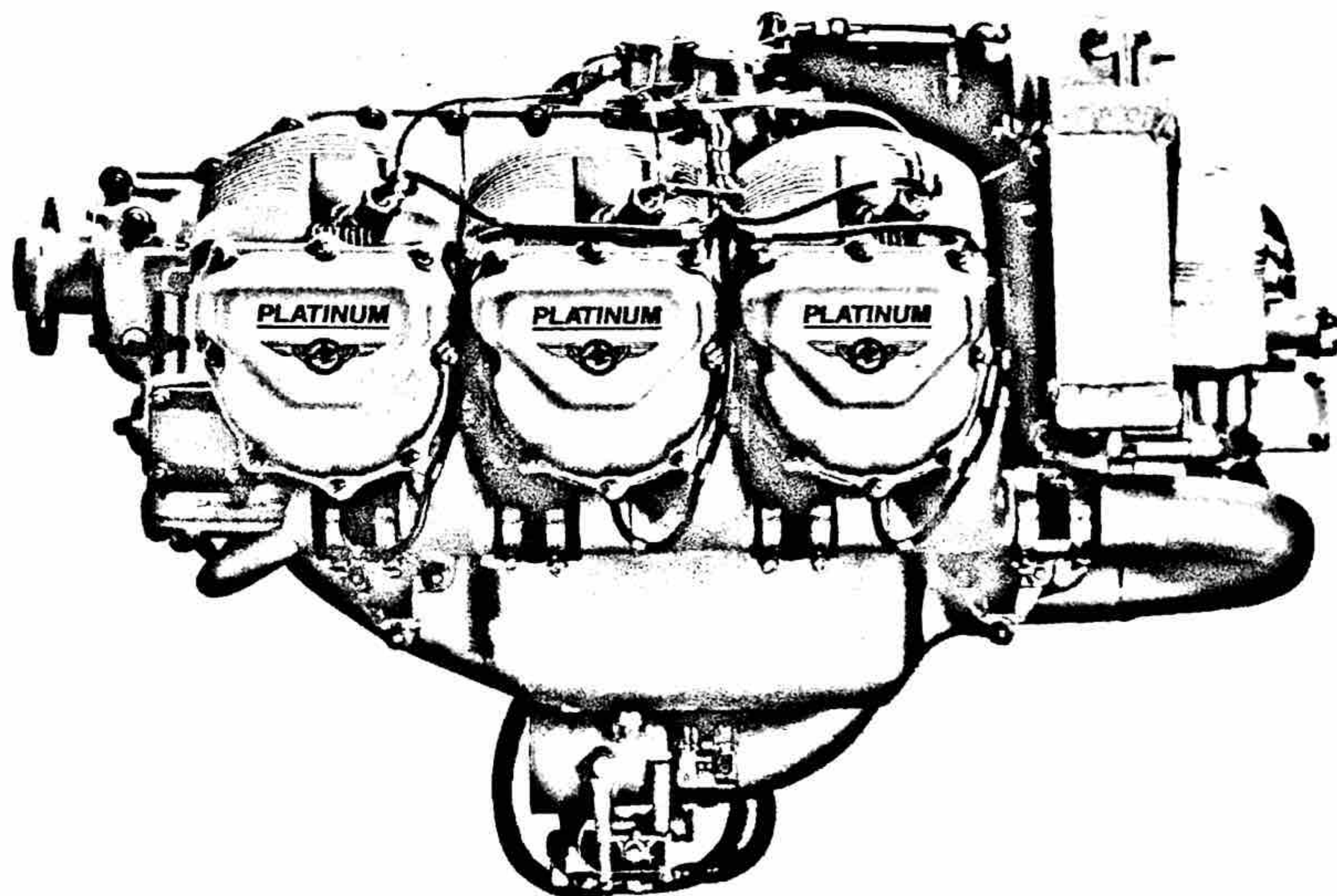


PLATINUM ENGINE LOG BOOK



CONTINENTAL MOTORS



ON OF
Staveley services
FLUIDS ANALYSIS

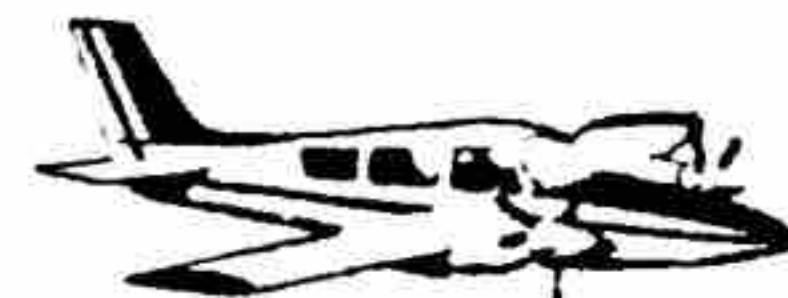


AVIATION OIL ANALYSIS

3319 West Earll Drive
Phoenix, Arizona 85017

Ph: 800-445-7930, email: aoa@Staveleyna.com

Web access: <http://aoa.Staveleyfa.com>



AVIATION OIL ANALYSIS
SINCE 1976

CUSTOMER: LEADING EDGE AVIATION (FL)
6582 EUREKA SPRINGS RD

TAMPA

FL 33610

CONTACT: JOHN WARNER
PHONE: 813-626-1515

FAX:

TAIL NUMBER: N678CD
AIRCRAFT MODEL: CIRRUS SR 22
COMPONENT MODEL: IO-550N27
POSITION: S
POS DESCR: SINGLE
COMPONENT S/N: 917657
OIL TYPE: UNKNOWN

| Sample Number | Taken Processed | Oil Hours Oil Added | TSN TSO | Aluminum | Iron | Copper | Nickel | Chrome | Lead | Silver | Silicon (air) | Magnesium | Recommendation Codes |
|---------------|-----------------|---------------------|---------|----------|------|--------|--------|--------|------|--------|---------------|-----------|----------------------|
| | | | | | | | | | | 0 | 8 | NA | 161 117 124 135 |

TELEDYNE CONTINENTAL MOTORS

THE OIL PRESSURE ON THIS ENGINE WAS ADJUSTED DURING THE ENGINE ACCEPTANCE TEST AT THE FACTORY. ONLY MINOR ADJUSTMENTS MAY BE NECESSARY TO ASSURE THE PROPER INDICATION ON THE COCKPIT GAUGE.

FACTORY SETTINGS:

RPM 2754 OIL TEMP 187 OIL PRESSURE 54.1

OIL PRESSURE PICK UP POINT: ENGINE INLET AT OIL COOLER

655313

*** Values Abnormal

Wear Metals Reported In Parts Per Million

RESULT CODES

- 161 OIL TIME UNKNOWN
- 117 IRON APPEARS HIGH
- 124 POSSIBLE CORROSION IF AIRCRAFT NOT FLOWN REGULARLY
- 135 RESAMPLE 25 HOURS TO MONITOR WEAR TREND

COMMENTS:

OTHER TESTS:

| 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 → | | | | | |



Leading Edge Aviation Services
 Vandenberg Airport
 Tampa, FL 33610
 (813)-626-1515

5 May 2006 N678CD
 Hobbs: 118.8 Engine Model: IO-550-N27 S N: 917657



Removed and replaced oil filter and installed CH48108-1. Cut open filter for inspection. no abnormal particles were found. Drained oil and serviced with eight quarts of Phillips 20W50. Installed new air filter. P N BA-24. Removed, cleaned, inspected, spark plugs. Compressions checked: #1: 76 80; #2: 75 80; #3: 76 80; #4: 75 80; #5: 76 80; #6: 77 80.
 Removed and cleaned fuel injectors. Complied with TCM SID 97-3 (fuel set up)
 Reset magneto to engine timing. Removed muffler shroud and inspected for cracks. AD's checked through 4 May 2006.
 AD 2005-12-06 N A by engine model. I certify this engine has been inspected in accordance with a 100-hour inspection with reference to Cirrus AMM section 5-20 and is found to be in airworthy condition at this time.

Stephen Wiedler
 Stephen Wiedler 145604431



Leading Edge Aviation Services
 Vandenberg Airport
 Tampa, FL 33610
 (813)-626-1515

22 November 2006 N678CD
 Hobbs: 149.9



Complied with SB 2X-77-02R1 with Kit P/N 70134-001 on #2 cylinder EGT and CHT. Performed post maintenance engine run-up. operational check good.

Jason D. Warner
 Jason D. Warner A&P# 3126015



Leading Edge Aviation Services
 Vandenberg Airport
 Tampa, FL 33610
 (813)-626-1515

12 April 2007 N678CD
 Hobbs: 166.8 Engine Model: IO-550-N S N: 917657



Removed and replaced oil filter and installed CH48108-1. Cut open filter for inspection. no abnormal particles were found. Drained oil and serviced with eight quarts of Phillips 20 W 50. oil. Installed new air filter. P N BA-24. Removed, cleaned, inspected, spark plugs. Compressions checked: #1: 78 80; #2: 75 80; #3: 76 80; #4: 75 80; #5: 77 80; #6: 77 80. Removed and cleaned fuel injectors. Complied with TCM SID 97-3 (fuel set up). Reset right and left magneto timing. Removed muffler shroud and inspected for cracks. AD's checked through 12 April 07. I certify this engine has been inspected in accordance with a 100-hour inspection with reference to Cirrus AMM section 5-20 and is found to be in airworthy condition at this time.

Anthony Lambert
 Anthony Lambert A&P 3194738

| 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 → | | | | | |



Leading Edge Aviation Services
 Vandenberg Airport
 Tampa, FL 33610
 (813)-626-1515



4 May 2007 N678CD
 Hobbs: 168.9

Removed Alternator #1 P/N-646843A1 and Replaced with P/N-646843A1 S/N-007BA097.
 Replaced Alternator #1 field control module P/N-14605-001. Performed post maintenance engine run-up, no defects noted at this time.

Jason D. Warner A&P# 3126015



Leading Edge Aviation Services
 Vandenberg Airport
 Tampa, FL 33610
 (813)-626-1515



23 May 2008 Hobbs: 254.3 N678CD
 Engine: IO-550-N(27) S/N: 917657

Removed, cleaned, and reinstalled gasculator fuel filter. Performed compression check =1-77 80 =2-76 80 =3-74 80 =4-74 80 =5-74 80 =6-72 80. Removed, cleaned, inspected, gapped, and reinstalled spark plugs. Replaced Induction Air filter P N B.A-24. Inspected engine and surrounding areas IAW Cirrus AMM. No defects noted at this time. AD's checked through 7 May 2008. None due at this time. This engine has been inspected IAW 100 hour inspection with reference to Cirrus AMM section 5-20 and is found to be airworthy at this time.

Mal Hirsz A&P 3257902

LEADING EDGE

AVIATION SERVICES, INC.

Tampa, FL



AUTHORIZED SERVICE CENTER

Date: 5/13/2009; Aircraft: N678CD; Type: CIRRUS GTS Do Not Use; S/N: 1410; Hobbs: 292.5; Total Time: 292.5; Engine - Type: IO-550-N(27), S/N: 917657, Time: 292.5

- Cleaned engine and performed run up. Inspected for leaks and general overall condition.
- Performed compression check #1:66/80 #2: 68/80 #3: 70/80 #4: 66/80 #5: 72/80 #6: 69/80,
- Inspected Fuel nozzles for leaks.
- Checked RT. and LT. magneto timing. 22 Degrees BTDC.
- Removed spark plugs, cleaned, inspected, gapped and reinstalled.
- Inspected electrical wiring for chafing and security.
- Inspected Fluid carrying hoses.
- Removed gasculator cleaned, inspected and reinstalled.
- Drained Oil and serviced with 8 Quarts Phillips 20W50.
- Removed and replaced Oil filter P/N CH48108-1. Cut open filter for inspection, no abnormal particles were found at this time.
- Collected oil sample for analysis.
- Replaced air filter P/N BA-24.
- Complied with TCM SID 97-E (Fuel set-up).
- Verified AD compliance through Bi-weekly issue 2009-09.
- AD2007-16-10 N/A by Part not installed.
- Performed post inspection operational check of aircraft systems - all working normal at this time.

I certify this engine has been inspected in accordance with a 100 hour inspection with reference to Cirrus AMM Section 5-20 and is found to be airworthy at this time.

Christopher Reeves A&P 492701868IA
 6582 Eureka Springs Rd. Tampa, FL 33610
 Tampa Executive Airport (KTPX) 813 626 1515

Engine Service and Maintenance Record

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

LEADING EDGE

AVIATION SERVICES, INC.

Tampa, FL



AUTHORIZED SERVICE CENTER

-Removed and replaced Alt2 shear coupling P/N:13565-020 with new as required. ATA24.30.008

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

.. Brian Bills [Signature] A&P 3197850

6582 Eureka Springs Rd. Tampa, Fl 33610

Tampa Executive Airport (KTPX) 813 626 1515

LEADING EDGE

AVIATION SERVICES, INC.

Tampa, FL



AUTHORIZED SERVICE CENTER

Tampa, FL
 Date: 5/13/2010; Aircraft: N678CD; Type: CIRRUS; S/N: 1410; Hobbs: 331.6; Total Time: 331.6; Engine - Type: IO-550-N(27), S/N: 917657.
 Time: 331.6

- Complied with Cirrus 100hr inspection checklist.
- Cleaned engine and performed run up. Inspected for leaks and general overall condition.
- Drained oil and serviced with 8 quarts of Philips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Collected oil sample for analysis. Installed cowling and performed run up.
- Complied with fuel set-up (TCM SID 97-3E).
- Removed cleaned gapped spark plugs verified correct mag timing L&R.
- Performed compression check 1/70,2/64,3/70,4/68,5/72,6/68.
- Inspected Fuel nozzles for leaks.
- Inspected electrical wiring for chafing and security.
- Inspected Fluid carrying hoses.
- Removed gascolator cleaned, inspected and reinstalled.
- Replaced air filter P/N BA-24.
- Verified AD compliance through Bi-weekly issue 2010-08
- Performed post inspection operational check of aircraft systems - all working normal at this time.
- Work performed with reference to Cirrus SR-22 AMM.

I certify this engine has been inspected in accordance with a 100 hour inspection with reference to Cirrus AMM Section 5-20 and is found to be airworthy at this time.

Paul Stern

A&P 3078823IA

6582 Eureka Springs Rd. Tampa, FL 33610

Tampa Executive Airport (KTPX) 813 626 1515

Tampa Executive Airport (KVDF) 813 626 1515

| | | | | | |
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| | | | | | |

Date

Total Time

Time Since
Last Overhaul

Hrs.

Min.

Hrs.

Min.

Engine Service and Maintenance RecordInstallations, Inspections, Airworthiness Directives, Special Inspections,
Modifications and Service Bulletins

BI

LEADING EDGE

AVIATION SERVICES, INC.

Tampa, FL

AUTHORIZED SERVICE CENTER

Date: 6/18/2014; Aircraft: N678CD; Type: CIRRUS; S/N: 1410; Hobbs: 582.6; Total Time: 582.6; Engine - Type: IO-550-N(27), S/N: 917657,
Time: 582.6

Cleaned engine and performed run up. Inspected for leaks and general overall condition. Performed compression checks and magneto timing. Inspected electrical wiring for chafing and security.

- Drained oil and serviced with 8 quarts of Phillips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Collected oil sample for analysis. Installed cowlings and performed run up.
- Compression Check #1 72/80 #2 66/80 #3 68/80 #4 68/80 #5 64/80 #6 68/80 MO 42/80
- Verified AD compliance through bi-weekly issue 2014-09.
- Removed and replaced the air filter element with new PN BA24.
- Installed new front main crankcase seal, PN 641250. Installed prop using new oring PN C3317-228.
- Removed gascolator bowl, cleaned, inspected screen and re-installed.
- Removed and replaced #2 and #4 push rod tube seals with new.
- Removed and cleaned all fuel injectors for manufacturer 300 hr. cleaning. Re-installed injectors.
- Complied with fuel set-up (TCM SID 97-3F).

I certify this engine has been inspected in accordance with a 100 hour inspection with reference to Cirrus AMM Section 5-20 and is found to be airworthy at this time.

Bruce Stein

A&P 2588417IA

6530 Tampa Executive Airport RD. Tampa, FL 33610

Tampa Executive Airport (KVDF) 813 621 7476

LEADING EDGE

AVIATION SERVICES, INC.

Tampa, FL

AUTHORIZED SERVICE CENTER

Date: 6/15/2015; Aircraft: N678CD; Type: CIRRUS; S/N: 1410; Hobbs: 641.6; Total Time: 641.6; Engine - Type: IO-550-N(27), S/N: 917657,
Time: 641.6

Removed cowlings cleaned engine and performed run up. Inspected for leaks and general overall condition. Performed compression checks and magneto timing. Inspected electrical wiring for chafing and security. 100 Hour inspection completed WRT Cirrus AMM section 5-20.

- Drained oil and serviced with 8 quarts of Phillips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Installed cowlings and performed run up.
- Compression Check #1 68/80 #2 60/80 #3 64/80 #4 58/80 #5 64/80 #6 60/80 MO 42/80
- Verified AD compliance through bi-weekly issue 2015-10.
- Complied with fuel set-up (TCM SID 97-3F).
- Removed and replaced nose crankshaft seal with new PN: 641250, ops check OK, no leaks.
- Inspected Fuel nozzles for leaks.
- Inspected electrical wiring for chafing and security.
- Inspected Fluid carrying hoses.
- Removed gascolator cleaned, inspected and reinstalled.
- Replaced air filter P/N BA-24.
- Performed post inspection operational check of aircraft systems - all working normal at this time.

I certify this engine has been inspected in accordance with a 100 hour inspection with reference to Cirrus AMM Section 5-20 and is found to be airworthy at this time.

Bruce Stein

A&P 2588417IA

6530 Tampa Executive Airport RD. Tampa, FL 33610

Tampa Executive Airport (KVDF) 813 621 7476

| | | | | | |
|------|------------|------|--------------------------|------|--|
| 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. | |



Leading Edge Aviation Maintenance LLC.
 Lakeland Linder Regional Airport (KLAL)
 3760 Airfield Drive West WWW.LEADINGEDGEAVIATION.COM
 Lakeland FL 33811 813-621-7476

Date: 6/28/2016; Aircraft: N678CD; Type: CIRRUS; S/N: 1410; Hobbs: 692.8; Total Time: 692.8; Engine - Type: IO-550-N(27), S/N: 917657, Time: 692.8; Prop - Type: PHC-J3YF-1RF, S/N: FP3638B, Time: 692.8

- Removed cowling: Cleaned engine and performed run up. Inspected for leaks and general overall condition. Performed compression checks and magneto timing. Inspected electrical wiring for chafing and security. Annual inspection completed WRT Cirrus AMM section 5-20.
- Drained oil and serviced with 8 quarts of Phillips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Installed cowling and performed run up.
- Compression Check #1 58/80 #2 58/80 #3 60/80 #4 58/80 #5 58/80 #6 58/80 MO 44/80
- Complied with fuel set-up (CMI SID 97-3G).
- Removed #4 induction gasket, cleaned surfaces and installed new gasket.
- Removed and reinstalled overhauled magnetos.
- Removed and replaced pushrod tube seals on #1, #4, and #5 engine cylinders.
- Removed and reinstalled overhauled propeller governor.
- Replaced all 12 sparkplug lead springs with new ones.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

Derrick James  A&P 3636085IA



Fixed Wing Aviation Maintenance
 Lakeland Linder Regional Airport (KLAL)
 3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM
 Lakeland FL 33811 863-606-5757

Date: 8/14/2017; Aircraft: N678CD; Type: CIRRUS; S/N: 1410; Hobbs: 761.6; Total Time: 761.6; Engine - Type: IO-550-N(27), S/N: 917657, Time: 761.6; Prop - Type: PHC-J3YF-1RF, S/N: FP3638B, Time: 761.6

- Removed cowling, Cleaned engine and performed run up. Inspected for leaks and general overall condition. Performed compression checks and magneto timing. Inspected electrical wiring for chafing and security. Annual inspection completed WRT Cirrus AMM section 5-20.
- Drained oil and serviced with 8 quarts of Phillips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Installed cowling and performed run up
- Compression Check #1 52/80 #2 44/80 #3 50/80 #4 46/80 #5 40/80 #6 54/80 MO 40/80
- Verified AD compliance through bi-weekly issue 2017-11.
- Researched All Cirrus Service Bulletins for this S/N aircraft and made a list of all applicable at this time.
- Complied with fuel set-up (CMI SID 97-3G).
- Completed borescope inspection. Found no physical damage to valves or piston faces. Found minor oil pooling in Cyl 1-2.
- Removed and replaced Alt. #1 with new as required.
- Inspected cyl #5 for oil leak and found no defects. No further action required.
- Removed and replaced intake flapper bolt with new as required.
- Removed and replaced garlock seal with new as required.

I certify this engine has been inspected in accordance with a 100hr inspection with reference to Cirrus AMM and is found to be airworthy at this time.

Jonathan Coradin  A&P 3502686IA

Date

Total Time

Time Since
Last Overhaul

Hrs.

Min.

Hrs.

Min.

Engine Service and Maintenance RecoInstallations, Inspections, Airworthiness Directives, Special Inspecti
Modifications and Service Bulletins

Sarasota Avionics Inc Tampa (TPA)

Engine

845 Severn Ave. Tampa, FL 33606

Tail No.: N678CD/Cont./IO-550-N/Serial Number: 917657

Date: 12/20/17 Work Order: M454

Flt Hobbs: 796.3 Engine TTSN : 796.3



I certify that this engine has had an annual inspection IAW FAR43 Appendix D using AMM chap. 05-20 annual/100 hour inspection checklist and was determined to be in an airworthy condition and is approved for return to service. All applicable airworthiness directives through 12/20/17 have been reviewed and/or complied with. List in logbook. Cylinder compressions 1-70, 2-62, 3-71, 4-64, 5-66, 6-68. Changed oil and filter, serviced engine with 8qts Phillips 20W50 X/C. Inspected old oil filter, no metal found. Cleaned and gapped all plugs, checked mag timing, lubed and checked engine controls. Resecured right fwd baffle seal. Replaced induction ALT air "Y" Assy and Bracket air filter Assy. Removed and replaced leaking fuel flow transducer. Adjusted idle speed and mixture as needed. Performed ground run up, all applicable leak and ops checks good.

Steven D. Reifeis A&P35055351A

ENGINE MODEL:
ENGINE S/N:
REG. NO: 678CD
WORK ORDER:
1200-07-2018

East Coast Aviation Service, Inc.

Repair Station No. FAA CRS 9ESR403B
2580 SE Aviation Way
Ste 102
Stuart, FL 34996
Phone: 772 781 0610

DATE: 7/10/2018
A/C TSN: 900.5
ENG TT: 900.5
TSMOH:
HOBBS: 900.5

Engine Entries

(1) Inspected this engine in accordance with FAR 43 Appendix D, Oil Drained and oil sample taken, removed oil filter and cut open no contamination noted, replaced oil filter with Tempest AA48108-2 and serviced engine with 8 qts of Phillips X/C 20W-50, compression checked as follows 1:70 2:56 3:72 4:70 5:70 6:64/80 Master orifice 43... (4) Secured #1 injector line support bracket... (5) Replaced #3 and #5 injector line clips P/N 652436-1... (6) re-installed engine driven fuel pump after repairs by Great Planes Fuel metering Inc P/N# 655921-3A1 S/N#B05BA28 under W/O#18-388 dated 7/6/2018, set fuel pump pressures as per CM MX manual... (8) removed alternator #2 Replaced right accessory drive seal with P/N 25102 using gaskets P/N 653487 and 654012, re-installed alternator #2, engine cleaned and operational check performed, checked and found all AD's to have been C/W thru this date, I certify this engine to have been inspected in accordance with a 100HR inspection and was determined to be in a airworthy condition.

The aircraft and/or component(s) on 678CD was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. "Pertinent details of the repair are on file at this repair station under Work Order No. 1200-07-2018

DATE: 7/10/2018

SIGNED:

Work Order: 1200-07-2018

Richard John Epler
Certified Repair Station No. FAA CRS 9ESR403B

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ENGINE MODEL: IO-550 N
(27)
ENGINE S/N: 917657
REG. NO: 678CD
WORK ORDER:
1247-09-2018

East Coast Aviation Service, Inc.

Repair Station No. FAA CRS 9ESR403B
2580 SE Aviation Way
Ste 102
Stuart, FL 34996
Phone: 772 781 0610

DATE: 9/7/2018
A/C TSN: 948.6
ENG TT: 948.6
TSMOH:
HOBBS: 948.6

Engine Entries

(1) Oil Drained and oil sample taken, removed oil filter and cut open no contamination noted, replaced oil filter with Tempest AA48108-2 and serviced engine with 8 qts of Phillips X/C 20W-50, engine cleaned and operational check preformed

The aircraft and/or component(s) on 678CD was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. "Pertinent details of the repair are on file at this repair station under Work Order No. 1247-09-2018

DATE: 9/7/2018

SIGNED:

Work Order: 1247-09-2018

Richard John Epler
Certified Repair Station No. FAA CRS 9ESR403B

Printed by EBis 3 (datcomedia.com)

Date

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

Light Fc

ENGINE MODEL: IO-550 N

(27)

ENGINE S/N: 917657

REG. NO: 678CD

WORK ORDER:

1308-11-2018

East Coast Aviation Service, Inc.

Repair Station No. FAA CRS 9ESR403B

2580 SE Aviation Way

Ste 102

Stuart, FL 34996

Phone: 772 781 0610

DATE: 11/6/2018

A/C TSN: 996.7

ENG TT: 996.7

TSMOH:

HOBBS: 996.7

Engine Entries

(1) Oil Drained and oil sample taken, removed oil filter and cut open no contamination noted, replaced oil filter with Tempest AA48108-2 and serviced engine with 8 qts of Phillips X/C 20W-50, engine cleaned and operational check preformed

The aircraft and/or component(s) on 678CD was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. "Pertinent details of the repair are on file at this repair station under Work Order No. 1308-11-2018

DATE: 11/6/2018

SIGNED: 

Work Order: 1308-11-2018

Richard John Epler

Certified Repair Station No. FAA CRS 9ESR403B

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ENGINE MODEL: IO-550 N

(27)

ENGINE S/N: 917657

REG. NO: 678CD

WORK ORDER:

1349-12-2018

East Coast Aviation Service, Inc.

Repair Station No. FAA CRS 9ESR403B

2580 SE Aviation Way

Ste 102

Stuart, FL 34996

Phone: 772 781 0610

DATE: 2/4/2019

A/C TSN: 1037.8

ENG TT: 1037.8

TSMOH:

HOBBS: 1037.8

Engine Entries

(2) Inspected this engine in accordance with FAR 43 Appendix D, Oil Drained and oil sample taken, removed oil filter and cut open no contamination noted, replaced oil filter with Tempest AA48108-2 and serviced engine with 8 qts of Phillips X/C 20W-50, Compression checked as follows 1:62 2:64 3:70 4:64 5:68 6:70/80 master orifice 43, spark plugs were cleaned gapped and rotated, engine cleaned and operational check performed, checked and found all AD's to have been C/W thru this date, I certify this engine to have been inspected in accordance with a 100HR/Annual inspection and was determined to be in a airworthy condition.

The aircraft and/or component(s) on 678CD was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. "Pertinent details of the repair are on file at this repair station under Work Order No. 1349-12-2018

DATE: 2/4/2019

SIGNED: 

Work Order: 1349-12-2018

Richard John Epler

Certified Repair Station No. FAA CRS 9ESR403B

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-550 N

(27)

ENGINE S/N: 917657

REG. NO: 678CD

WORK ORDER:

1444-03-2019

East Coast Aviation Service, Inc.

Repair Station No. FAA CRS 9ESR403B

2580 SE Aviation Way

Ste 102

Stuart, FL 34996

Phone: 772 781 0610

DATE: 4/1/2019

A/C TSN: 1076.8

ENG TT: 1076.8

TSMOH:

HOBBS: 1076.8

Engine Entries

(4) Oil Drained and oil sample taken, removed oil filter and cut open no contamination noted, replaced oil filter with Tempest AA48108-2 and serviced engine with 8 qts of Phillips X/C 20W-50, engine cleaned and operational check preformed

The aircraft and/or component(s) on 678CD was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. "Pertinent details of the repair are on file at this repair station under Work Order No. 1444-03-2019

DATE: 4/1/2019

SIGNED: 

Work Order: 1444-03-2019

Richard John Epler

Certified Repair Station No. FAA CRS 9ESR403B

Printed by EBis 3 (datcomedia.com)

| | | | | | | |
|---|------------------------|---|---|---|---|--|
| 1. Approving Civil Aviation Authority/Country: FAA/United States | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 25416-18978RS | |
| 4. Organization Name and Address: Extant Aerospace, 1615 W. NASA Blvd, Melbourne, FL. 32901 (5S5R934B) | | | | | 5. Work Order/Contract/Invoice Number: 25416-18978RS | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: | |
| 1 | Multi-Function Display | 700-00004-008 | 1 | 22123455 | Repaired | |
| 12. Remarks: Repaired in accordance with PMM #600-00130-004, Rev. 18, Dated 04/04/2018. See attached W/O 25416-18978RS. "Direct Shipment Authorization" | | | | | | |
| 13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12. | | | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. | | | |
| 13b. Authorized Signature: | | 13c. Approval/Authorization No.: | | 14b. Authorized Signature:  | | 14c. Approval/Certificate No.: 5S5R934B |
| 13d. Name (Typed or Printed): | | 13e. Date (dd/mm/yyyy): | | 14d. Name (Typed or Printed): Carlos Feliciano | | 14e. Date (dd/mm/yyyy): 16/SEP/2019 |
| User/Installer Responsibilities | | | | | | |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> | | | | | | |

| | | | | | | |
|---|------------------------|---|---|---|---|--------------------------------|
| 1. Approving Civil Aviation Authority/Country: FAA/United States | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 25415-18977RS | |
| 4. Organization Name and Address: Extant Aerospace, 1615 W. NASA Blvd, Melbourne, FL. 32901 (5S5R934B) | | | | | 5. Work Order/Contract/Invoice Number: 25415-18977RS | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: | |
| 1 | Primary Flight Display | 700-00006-000 | 1 | 20338305 | Repaired | |
| 12. Remarks: Repaired in accordance with PMM 600-00128-004, Rev. 06, Dated 09/20/16. See attached W/O: 25415-18977RS. "Direct Shipment Authorization" | | | | | | |
| 13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12. | | | 14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. | | | |
| 13b. Authorized Signature: | | 13c. Approval/Authorization No.: | | 14b. Authorized Signature: | | 14c. Approval/Certificate No.: |
| | | | |  | | 5S5R934B |
| 13d. Name (Typed or Printed): | | 13e. Date (dd/mm/yy): | | 14d. Name (Typed or Printed): | | 14e. Date (dd/mm/yy): |
| | | | | Carlos Feliciano | | 19/SEP/2019 |
| User/Installer Responsibilities | | | | | | |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> | | | | | | |

Vibration Test

| | |
|-----|-----------------|
| | Serial number # |
| PFD | 20338305 |

Technician: 2279 SYM
6
TFS Date: 9-19-19

During the vibration test, the UUT is to be monitored for the following pass/fail criteria.

| Parameter | Setting | Pass/Fail Criteria and Data | Pass | Fail |
|-------------------------------|--------------------|--|------|------|
| Altitude | 11,000ft | Max 11,035ft Min 10,965ft | ✓ | |
| Airspeed | 100kts | Max 102kts Min 98kts | ✓ | |
| Attitude | Level | The attitude display should remain level during the test. Fail = Movement of the attitude from level >2° | ✓ | |
| Heading | Varies per MAG | Heading at start = <u>177</u> Not to exceed +/- 5° from initial heading | ✓ | |
| Outside Air Temperature (OAT) | Site Ambient | OAT Temperature at start = <u>23</u> Not to exceed +/- 2° during the course of the test. Note: N/A for PFD 700-00006-003 or when using HASS Code | ✓ | |
| Bezel Lights | Default Brightness | Pass = Even illumination Fail = Flicker, uneven/darkened areas | ✓ | |
| Display | Default Brightness | Pass = Clear image remaining at default brightness Fail = Flicker, line outs, bands, unusual dimming, white lines across screen, flashing backlight, loss of video data, etc. Note: Under high vibration, LCD printing may be observed, this is normal and acceptable. LCD printing is a localized change in brightness caused by physical stress on the liquid crystal cell of the display. Printing can easily be distinguished from other flickering anomalies (i.e. loose backlight or video connections) by the fact that the center of the display is far more affected than the edges. In contrast, backlight and video data connection issues will affect the entire display or particular rows/columns of the display. Printing is temporary and will only be observable during vibration exposure. | ✓ | |

Vibration Test

| | |
|-----|-----------------|
| | Serial number # |
| PFD | 20338305 |

Technician: 2279 SYM
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TPS Date: 9-19-19

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