

**PLATINUM**

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**CONTINENTAL MOTORS**

**N514BR**



# 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: 11/24/2004

This engine model 10550N27, Serial No. 917486 was manufactured on 11/22/2004

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.

*Thomas A. Howard*

**TELEDYNE CONTINENTAL MOTORS**

A TELEDYNE TECHNOLOGIES COMPANY

PRODUCTION CERTIFICATE NO. 508



# Service Information

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

# Engine Returns

All returned engines are to be shipped with this log book Directly to:

Teledyne Continental Motors  
Abbeville Industrial Park  
Suite 159  
Abbeville, AL 36310

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.	
<b>Wings Aircraft Maintenance, LLC</b> REG. # N541BR MODEL # CIRRUS SR22 S/N 1245 HOBBS 32.4 CHANGED OIL WITH EIGHT QUARTS OF AS 15W/50 OIL AND INSTALLED NEW CH48108-1 OIL FILTER, INSPECTED OIL FILTER ELEMENT, OK AT THIS TIME. GROUND RAN AND LEAK CHECKED, OK. DATE 1-10-2005 SIGNED <i>[Signature]</i> AP5537337901A					
<i>Avant garde Aviation Inc</i> Hobbs 69.7 Changed oil with 8 qts of 15/50 Aeroshell oil and installed new CH48108-1 oil filter, inspected oil filter element found no metal, OK at this time. Ground run-up check for leaks OK. Also, performed compression check tests ① 73/80 ② 76/80 ③ 73/80 ④ 72/80 ⑤ 76/80 ⑥ 76/80 Date 5-11-2005 A/P: 549920082 <i>Reuben Hernandez</i>					
Hobbs 95.5 CHANGED OIL WITH EIGHT QUARTS OF <del>PEROSH</del> 15W/50 OIL AND INSTALLED NEW CH48108-1 OIL FILTER. TOOK SAMPLE AND SENT FOR ANALYSIS. RAN LEAK CHECK OK. <i>[Signature]</i> AP5537337901A					





# Corporate Jets, Inc.

14500 North Airport Drive • Scottsdale, Arizona 85260 • (480) 948-2400

N514BR Date: December 27, 2005  
Model #Cirrus 22 G-2 S/N 1245

ACTT 104.1

TCM IO-550-N(27) S/N 917486 ETT 104.1  
HARTZELL PHC-J3YF-1RF S/N FP3346B PTT 104.1

## ENGINE LOG ENTRY

Accomplished 50/100 hour 6/12 month inspection in accordance with the manufacturers service manuals.

Compression check at 80psi:  
#1/75 #2/76 #3/77 #4/76 #5/76 #6/76

C/W 1<sup>st</sup> 100hr fuel nozzle clean and inspection. No defects noted.

I certify that this ENGINE has been inspected in accordance with an 100 HOUR inspection and was found to be in an Airworthy Condition. W.O. 024259

*Mark Olson*  
CORPORATE JETS, INC.

CRS# LN3R663L



HOBBS 0125.7  
TOTAL 0125.7  
TSOH -----  
DATE 3/24/06

AIRCRAFT MAINTENANCE & REPAIR  
FALCON FIELD - MESA, AZ

REG # N541BR  
A/C # 1245  
ENG # 917486

RUN ENGINE TO TEMP. DRAIN OIL AND REPLACE OIL FILTER. CUT OLD FILTER AND INSPECT FOR METAL; NONE NOTED. REFILL ENGINE WITH 7 QUARTS AEROSHELL 15 W 50 ENGINE OIL. RUN ENGINE AND LEAK CHECK. THIS ENGINE IS APPROVED FOR RETURN TO SERVICE.

A/P 3116187

## Service and Maintenance Record

s, Inspections, Airworthiness Directives, Special Inspections, ns and Service Bulletins

Date

Total Time

Time Since  
Last Overhaul

## Engine Service and Maintenance Record

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

Brought Forward

HOBBS: 185.3 7/27/2006

PERFORMED OIL & FILTER CHANGE. CUT OPEN & INSPECTED OLD OIL FILTER - NO METAL FOUND. INSTALLED & SAFTIED NEW CH48108-1 OIL FILTER. SERVICED ENGINE WITH 8QTS. AERDSHELL 15W50 OIL. WASHED DOWN ENGINE. TOOK OIL SAMPLE. GROUND RUN OPS & LK CK-OK. ~~ADVANTAGE~~ ADVANTAGE AVIATION, INC. W/O# 19894  
*Jamie D. Johns* 280 6121 A+P  
END



# Corporate Jets, Inc.

N514BR Date: January 8, 2007

Model #Cirrus 22 G-2 S/N 1245

ACTT 209.3

TCM IO-550-N(27) S/N 917486 ETT 209.3  
HARTZELL PHC-J3YF-1RF S/N FP3346B PTT 209.3

## ENGINE LOG ENTRY

Accomplished 50/100 hour 6/12 month inspection in accordance with the manufacturers service manuals.

Compression check at 80psi:  
#1/75 #2/72 #3/73 #4/74 #5/73 #6/72

Drained engine oil, removed engine oil filter. Cut filter open, inspected, no problems noted. Took SOAP sample. Installed new CH48108-1 oil filter. Serviced engine with 8 qts of AeroShell 15W-50 Oil. Ran engine, leak checked No problems noted.

I certify that this ENGINE has been inspected in accordance with an 100 HOUR inspection and was found to be in an Airworthy Condition. W.O. 025964

*John Wilson*  
CORPORATE JETS, INC.

CRS# LN3R663L

6-11-07 242.0 Changed oil & filter. Added 8 qts Aeroshell 15w50 and installed CH48108-1 oil filter. Took oil sample, cut filter open and inspected. *My C. M.*

## LAPEER AVIATION, INC.

F.A.A. Approved Repair Station No. L9PF  
DuPont Lapeer Airport, Lapeer, Michigan

## LAPEER AVIATION, INC.

F.A.A. Approved Repair Station No. L9PR97H  
DuPont Lapeer Airport, Lapeer, Michigan 48444



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.	



**Corporate Jets, Inc.**  
14600 North Airport Drive • Scottsdale, Arizona 85260 • (480) 948-2400

N514BR Date: December 28, 2007  
Model #Cirrus 22 G-2 S/N 1245  
HOBBS: 274.3  
TCM IO-550-N(27) s/n 917486 ETT: 274.3

#### ENGINE LOG ENTRY

Accomplished 50/100 hour inspection in accordance with the manufacturer's recommendations.

#### Compression check at 80psi:

#1/75 #2/75 #3/74 #4/75 #5/74 #6/76

Drained engine oil, removed engine oil filter. Took SOAP sample with customer supplied kit. Cut filter open, inspected, no problems noted. Installed new CH48108-1 oil filter. Serviced engine with 8 qts of Aero Shell 15W-50 oil. Ran engine, leak checked, no problems noted.

I certify that this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was found to be in an Airworthy Condition. W.O. CIR-02177C

CORPORATE JETS, INC. FAA CRS# LN3R663L




**Corporate Jets, Inc.**  
14600 North Airport Drive • Scottsdale, Arizona 85260 • (480) 948-2400

N514BR Date: January 18, 2009  
Model #Cirrus 22 S/N 1245  
HOBBS: 339.1  
TCM IO-550-N(27) s/n 917486 ETT: 339.1  
**ENGINE LOG ENTRY**

Removed and reinstalled #5 injector after cleaning. Ran aircraft #5 injector was good.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. CIR 09-00123

LANDMARK AVIATION FAA CRS# LN3R663L

5-27-08 315.6 Hobbs. Changed oil and filter. Added 8 qts. Aeroshell 15W50, installed CH48108-1 filter. Took oil sample. Cut filter open and inspected. Jty O'Neil  
LAPEER AVIATION, INC.  
F.A.A. Approved Repair Station No. LSPR871N  
DuPont Lapeer Airport, Lapeer, Michigan 48446



**Corporate Jets, Inc.**  
14600 North Airport Drive • Scottsdale, Arizona 85260 • (480) 948-2400

N514BR Date: January 2, 2009  
Model #Cirrus 22 S/N 1245  
HOBBS: 334.5  
TCM IO-550-N(27) s/n 917486 ETT: 334.5

#### ENGINE LOG ENTRY

Accomplished 50/100 hour inspection in accordance with the manufacturer's recommendations.

#### Compression check at 80psi:

#1/64 #2/66 #3/70 #4/70 #5/70 #6/66

Accomplished 300 hour fuel injection cleaning.

Drained engine oil, removed engine oil filter. Took SOAP sample with customer supplied kit. Cut filter open, inspected, no problems noted. Installed new CH48108-1 oil filter. Serviced engine with 8 qts of Aero Shell 15W-50 oil. Ran engine, leak checked, no problems noted.

#### Installed new parts:

Fuel injection O-rings p/n MS29513-010 (6 ea)  
Fuel injection brass washers p/n X1473 (6 ea)  
Fuel injection washers p/n 640612 (6 ea)

I certify that this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was found to be in an Airworthy Condition. W.O. CIR-08-00093

LANDMARK AVIATION FAA CRS# LN3R663L


Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
Brought Forward					
6/10/2009	316	8			Changed oil and filter. Added 8 qts. Aeroshell 15W50. Installed new CH48108-1 oil filter. Took oil sample for analysis. Cut open old filter & inspected. Jty O'Neil

LAPEER AVIATION, INC.

F.A.A. Approved Repair Station No. LSPR871N  
DuPont Lapeer Airport, Lapeer, Michigan 48446



**LANDMARK AVIATION**  
14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400

N514BR Date: January 13, 2010  
Model #Cirrus 22 S/N 1245  
HOBBS: 386.7

IO-550-N(27) s/n 917486 ETT: 386.7

#### ENGINE LOG ENTRY

Accomplished 50/100 hour inspection in accordance with the manufacturer's recommendations.

#### Compression check at 80psi:

#1/70 #2/70 #3/73 #4/70 #5/62 #6/70

Drained engine oil, removed engine oil filter. Took SOAP sample with customer supplied kit. Cut filter open, inspected, no problems noted. Installed new CH48108-1 oil filter. Serviced engine with 8 qts of Aero Shell 15W-50 oil. Ran engine, leak checked, no problems noted.

Removed and installed Header Cyl#1 p/n 15080-001 After repair. See FAA Form 8130-3 dated 1/6/2010 WO# 131027 by Aerospace Welding Minneapolis, Inc.

I certify that this **ENGINE** has been inspected in accordance with a **100 HOUR** inspection and was found to be in an Airworthy Condition. W.O. C29-09-00370

LANDMARK AVIATION FAA CRS# LN3R663L

06/10/2011	HOBBS: 467.8	PERFORMED OIL & FILTER CHANGE. INSTALLED NEW CH48108-1 OIL FILTER & SAFED. CUT OPEN & INSPECTED OLD OIL FILTER! NO MORE FOUND. SERVICED ENGINE WITH 8 QTS. OF AEROSHELL 15W50 OIL. TOOK OIL SAMPLE FOR OWNER TO SUBMIT FOR ANALYSIS. GROUND RUN- OPS & LCK-OK. S/O#20872 AVANTGARDE AVIATION, INC. WATERFORD, MI Jimmie D. Jones A&P 2806121-1A (ARIC COMSTOCK)





# LANDMARK AVIATION

14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400  
N514BR Date: January 3, 2011 1 of 2

Model #Cirrus 22 S/N 1245  
ACFT 431.8  
IO-550-N (27) s/n 917486 ETT: 431.8  
ENGINE LOG ENTRY

Accomplished 50/100 hour inspection in accordance with the manufacturer's recommendations.

Compression check at 80psi:

#1/65 #2/70 #3/75 #4/70 #5/75 #6/72

TCM 100 hour inspection.

500 hour magneto inspection:

Removed and reinstalled both magnetos model S6RSC-25 p/n 10-500556-1 LH s/n D04KA110R & RH s/n D04IA230 after repair. See Arizona Air-Craftsman Maintenance Release dated 12/27/2010, W/O 20737.

Drained engine oil, removed engine oil filter. Took SOAP sample with customer supplied kit. Cut filter open, inspected, no problems noted. Installed new CH48108-1 oil filter. Serviced engine with 8 qts of Aero Shell 15 W-50 oil. Ran engine, leak checked, no problems noted.



# LANDMARK AVIATION

14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400

N514BR Cirrus SR 22 S/N 1245 1/3/2011 2 of 2

AD 2010-11-04 dated 6/16/2010, Excessive hydraulic lifter wear, is not applicable to this engine by date of MFG. was prior to 6/19/2009, and no subsequent work has been performed on the lifters.

I certify that this ENGINE has been inspected in accordance with a 100 HOUR inspection and was found to be in an Airworthy Condition. W.O. C28-10-00675

LANDMARK AVIATION

FAA CRS# LN3R663L

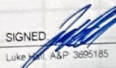
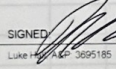
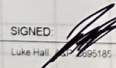
## Engine Service and Maintenance Record

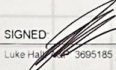
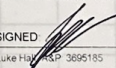
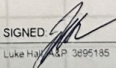
Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

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					
1-17-13	545	13			Comp. 1-70 2-72 3-70 4-69 5-74 6-70. AD 2011-11-04 NA by year built. AD 2012-10-13 NA by model number. All ADs complied with to date. Oil & filter changed serviced with 8 qts Aero Shell 15-50 + filter CH48108. All spark plugs replaced with new Tempest URHB325. I certify that this engine has been inspected in accordance with an annual inspection and was found airworthy. Randy R. APTA 3420241.
<p>AVANTGARDE AVIATION, INC. ENGINE LOG ENTRY N514BR 6/01/13, HOBBS 579.3, OIL AND FILTER CHANGE OIL USED AERO SHELL 15W50, TOOK OIL SAMPLE, COMPRESSION TEST #1 70/80 #2 78, #3 77, #4 75, #5 75, #6 75, BORE SCOPED ALL CYLINDERS NO SCORE MARKS OR VALVE DAMAGE FOUND, REPLACED #3 CYLINDER EGT PROBE P/N 14554-001, REPLACED #4 CYLINDER CHT PROBE P/N 14880-001 REUBEN HERNANDEZ A&amp;P3256114 <i>Reuben Hernandez</i></p>					
(ROUTINE BORE-SCOPE	PER	CONTINENTAL MOTORS	SB03-3)		
<p>Waterford Aviation, Inc. 2121 Airport Rd. Waterford, MI 48327 (248) 666-3333 (248) 666-1094 fax MX@WaterfordAviationInc.com www.WaterfordAviation.com Reg: N514BR Type: Continental IO-550-N27 S/N: 917486 Position: Center Date: November 21, 2013 ACTT: 587.7 TTEng: 587.7 Completed Annual Inspection in scope &amp; detail of FAR 43 Appendix D and IAW Cirrus SR22 &amp; TCM IO-550-N Service Manuals. Researched AD's thru bi-weekly 2013-21 - none due at this time. Differential Compression Check: #1 73/80 #2 72/80 #3 72/80 #4 73/80 #5 70/80 #6 71/80, MO 42/80. Replaced BA24 engine intake filter with new. Cleaned, gapped, rotated spark plugs. Adjusted magneto timing to spec. Adjusted full power fuel flow to spec. Replaced engine compartment fluid carrying hoses with new from Aviall Hose Shop Denver. Installed TANIS Engine Pre-Heater TAS100-12-771-DT-115 Kit IAW FAA Form 337, dated November 21, 2013. Ground run-up leak check and engine operations normal. Lubricated engine controls. All work done IAW Continental IO-550- N Service Manual. I certify that this Engine has been inspected IAW an Annual Inspection and is found to be in airworthy condition. -----END----- <i>Randy R. A&amp;P 305585</i> <i>27381242A</i></p>					


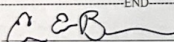


1/4/2012 Hobs 486.1  
TTE 486.1  
AD 2011-15-51 NA not installed ADs checked  
to date. Comp. 1-63 2-73 3-72 4-66 5-74  
6-67. Oil & filter changed qts. check good.  
Oil sample taken. Replaced both spark plugs  
on #5 cylinder due to cracks in insulators.  
New RHB325 plugs installed. I certify that  
this engine has been inspected in accordance  
with an annual inspection and was  
found airworthy.  
Randy R. APTA 3420241.







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					
ENGINE MODEL: IO-550-N27 ENGINE S/N: 917486 REG. NO: N514BR WORK ORDER: 2601-05-2014 <b>Waterford Aviation, Inc.</b> 2121 Airport Road Waterford, MI 48327 Phone: (248) 666-3333 DATE: 15 May, 2014 A/C TSN: 630 ENG TT: TSMOH HOBBS: 630					
<b>Engine Entries</b> Drained oil, removed filter and inspected for contaminants, none found, replaced filter with new PN CH48109-1. Serviced engine with 7 qts Phillips 20W50XC oil. Added CamGuard as per instructions. Ground run-up ops and leak check good. All work performed IAW Cirrus SR22 maintenance manual and TCM service manual. Performed differential compression check with results as follows: #1) 70 #2) 74 #3) 70 #4) 70 #5) 70 #6) 70 all over 80 psi. Maintenance Release The aircraft and/or component(s) on N514BR 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 facility under Work Order No. 2601-05-2014. Dated 15 May, 2014. DATE: 15 May, 2014 SIGNED:  Luke Hall, ASP 3695185 Work Order: 2601-05-2014 Printed by EBis 3 (dalcmedia.com)					
ENGINE MODEL: IO-550-N27 ENGINE S/N: 917486 REG. NO: N514BR WORK ORDER: 2726-07-2014 <b>Waterford Aviation, Inc.</b> 2121 Airport Road Waterford, MI 48327 Phone: (248) 666-3333 DATE: 30 July, 2014 A/C TSN: 681.4 ENG TT: 681.4 TSMOH: HOBBS: 681.4					
<b>Engine Entries</b> Drained engine oil and took sample for analysis by Blackstone Labs, removed oil filter. Inspected filter for contaminants, none found. Installed new CH48109-1 oil filter and serviced engine oil pump with 7 quarts of Phillips 20W50XC and Camguard oil additive as recommended. Performed ground run of engine. All ops check good, leak check good. All work performed IAW Cirrus SR22 maintenance manual and TCM service manual. Maintenance Release The aircraft and/or component(s) on N514BR 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 facility under Work Order No. 2726-07-2014. Dated 30 July, 2014. DATE: 30 July, 2014 SIGNED:  Luke Hall, ASP 3695185 Work Order: 2726-07-2014 Printed by EBis 3 (dalcmedia.com)					
ENGINE MODEL: IO-550-N27 ENGINE S/N: 917486 REG. NO: N514BR WORK ORDER: 2883-10-2014 <b>Waterford Aviation, Inc.</b> 2121 Airport Road Waterford, MI 48327 Phone: (248) 666-3333 DATE: 31 October, 2014 A/C TSN: 728.2 ENG TT: 728.2 TSMOH: HOBBS: 728.2					
<b>Engine Entries</b> Drained oil and took sample for evaluation by blackstone labs. Removed oil filter, inspected for contaminants, none found. Installed new oil filter, PN/CH48109-1. Serviced engine oil pump with 7 qts 20W50XC and Camguard as required. Lubricated engine controls. Completed ground run of engine. All ops check good, leak check good. All work performed IAW Cirrus maintenance manual and TCM service manual. Maintenance Release The aircraft and/or component(s) on N514BR 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 facility under Work Order No. 2883-10-2014. Dated 31 October, 2014. DATE: 31 October, 2014 SIGNED:  Luke Hall, ASP 3695185 Work Order: 2883-10-2014 Printed by EBis 3 (dalcmedia.com)					

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					
ENGINE MODEL: IO-550-N27 ENGINE S/N: 917486 REG. NO: N514BR WORK ORDER: 2918-12-2014 <b>Waterford Aviation, Inc.</b> 2121 Airport Road Waterford, MI 48327 Phone: (248) 666-3333 DATE: 12 December, 2014 A/C TSN: 728.2 ENG TT: 728.2 TSMOH: HOBBS: 728.2					
<b>Engine Entries</b> Completed Annual Inspection in scope & detail of FAR 43 App. D and IAW Cirrus SR22 & TCM IO-550-N Service Manual. Researched AD's thru bi-weekly 2014.24, none due at this time. Inspected cylinders per TCM SB03-3. Differential Compression Check #1 #2 #3 #4 #5 #6 #7 #8 #9 all over 80 psi. MO: 4480. Borescope inspection of cylinders - no defects noted. Cleaned, gapped, inspected & rotated spark plugs. Washed engine compartment and lubricated engine controls. I certify that this Engine has been inspected in accordance with an Annual inspection and has been found to be in Airworthy condition. Adjusted idle speed and mixture IAW TCM SID 97-3F and applicable TCM Service Manual. Installed new SkyTec starter PIN: C24ST5, S/N: 465241314. Ops checks good. Maintenance Release The aircraft and/or component(s) on N514BR 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 facility under Work Order No. 2918-12-2014. Dated 12 December, 2014. DATE: 12 December, 2014 SIGNED:  Luke Hall, ASP 3695185 Work Order: 2918-12-2014 Printed by EBis 3 (dalcmedia.com)					
ENGINE MODEL: IO-550-N27 ENGINE S/N: 917486 REG. NO: N514BR WORK ORDER: 2987-02-2015 <b>Waterford Aviation, Inc.</b> 2121 Airport Road Waterford, MI 48327 Phone: (248) 666-3333 DATE: 06 February, 2015 A/C TSN: 772.5 ENG TT: 772.5 TSMOH: HOBBS: 772.5					
<b>Engine Entries</b> Drained oil, took sample for Blackstone labs, removed oil filter, inspected for contaminants, none found. Installed new CH48109-1 filter and serviced sump with 7 qts Phillips 20W50 X/C oil and ASL CamGuard. Cleaned engine compartment, lubed engine controls and ground run-up ops & leak check good. Removed starter adapter clutch. Installed 642083 A12 clutch as overhauled by Aircraft Specialties Services CRS# DD2R764K under W.O. 226805 with new gasket. Operational checks good. Removed engine driven fuel pump (PIN 655921-3A1, S/N B04JA354) and installed overhauled unit (PIN 355921-3, S/N B06CA180) as overhauled by Quality Aircraft Accessories of Oklahoma CRS# 9KPR3698 under W.O. M1410-116 with new gasket. Performed operational check and set up fuel system IAW TCM SID97-3F. Maintenance Release The aircraft and/or component(s) on N514BR 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 facility under Work Order No. 2987-02-2015. Dated 06 February, 2015. DATE: 06 February, 2015 SIGNED:  Luke Hall, ASP 3695185 Work Order: 2987-02-2015 Printed by EBis 3 (dalcmedia.com)					
ENGINE MODEL: IO-550-N27 ENGINE S/N: 917486 REG. NO: N514BR WORK ORDER: 3087-05-2015 <b>Waterford Aviation, Inc.</b> 2121 Airport Road Waterford, MI 48327 Phone: (248) 666-3333 DATE: 08 May, 2015 A/C TSN: 814.3 ENG TT: 814.3 TSMOH: HOBBS: 814.3					
<b>Engine Entries</b> Drained oil and took sample for evaluation by blackstone labs. Removed oil filter, inspected for contaminants, none found. Installed new oil filter, PN/CH48109-1. Serviced engine oil pump with 7 qts 20W50XC and Camguard as required. Lubricated engine controls. Completed ground run of engine. All ops check good, leak check good. All work performed IAW Cirrus maintenance manual and TCM service manual. Adjusted clocking of engine driven fuel pump, secured hardware, ground run engine, leak check good, customer satisfied with location of mixture control in cockpit. Maintenance Release The aircraft and/or component(s) on N514BR 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 facility under Work Order No. 3087-05-2015. Dated 08 May, 2015. DATE: 08 May, 2015 SIGNED:  Luke Hall, ASP 3695185 Work Order: 3087-05-2015 Printed by EBis 3 (dalcmedia.com)					



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 →					
 <p><b>THE OHIO STATE UNIVERSITY AIRPORT</b> 2160 West Case Road Hgr. 3 Columbus, Ohio 43235-2526 CRS# IKBR028F</p>					
Date: 6/19/15	Work Order#: AM06631		N#: N514BR		
Aircraft Make/Model: Cirrus Design SR22	Serial#: 1245				
Engine Make/Model: TCM IO-550-N	Serial#: 917486				
Hour Meter: 822.4					
<b>Engine Log</b>					
1. Performed a Prebuy Examination Phase One and Two using Savvy Aircraft Maintenance Management form. Provided list of discrepancies.					
2. Compressions: 1/64 2/62 3/68 4/68 5/62 6/66 46/80. Cylinder borescope normal.					
3. Cut open oil filter. Checked normal. Installed new AA48108 filter.					
<b>"Maintenance Release"</b>					
The aircraft and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency.					
END					
Signature:  for CRS# IKBR028F					
 <p>330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K</p>					
Date: 8/26/2015; Aircraft: N514BR; Hobbs: 864.50 Shop Order #: S05-15-62500					
<b>ENGINE LOG ENTRY:</b>					
Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Post maintenance ground run satisfactory, no leaks noted. I certify that this engine has been inspected in accordance with a SAVVY Cirrus SR22x guide for oil changes and associated service items and has been approved for return to service.					
C. John Colalunga for Landmark Aviation CRS LC1R291K					
 <p>330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K</p>					
Date: 12/04/2015; Aircraft: N514BR; Hobbs: 907.5 Shop Order #: S05-15-62510					
Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Compression checked as follows: 1- 63/80 2-70/80 3-66/80 4-62/80 5-64/80 6-65/80 (master orifice reads 40/80). Bore scoped all cylinders, no anomalies noted. Replaced missing air plenum chafe pad. Replaced pulled rivets at number one alternator baffle with screws. Post maintenance ground run satisfactory, no leaks noted. I certify that this engine has been inspected in accordance with a 100 hour inspection and has been approved for return to service.					
C. John Colalunga for Landmark Aviation CRS LC1R291K					

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 →					
 <p>5535 John Givens Road Crestview, FL 32539 850-398-7992</p>					
04/22/2016	N514BR	CIRRUS SR-22	S/N: 1245	HOBBS: 958.3	
1 - Removed #1 Alternator P/N: 646843, S/N: 004K/A038					
2 - Installed new Alternator P/N: 646843, S/N: 016DAI/32 with supplied gasket					
3 - Ground ran A/C. Ops and leak check good.					
This article identified above was repaired and inspected IAW Cirrus MM & CFRs and was found to be airworthy in regards to the work performed. Pertinent details of this repair are on file at this agency under work order: 11016-1					
Work accomplished by:  Kyle Taylor					
3830158 A&P CRS#9NSR336					
 <p>330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K</p>					
Date: 4/28/2016; Aircraft: N514BR; Hobbs: 964.9 Shop Order #: S05-16-62724					
<b>ENGINE LOG ENTRY:</b>					
Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Took sample for analysis. Post maintenance ground run ok, no leaks noted. I certify that this engine has been inspected in accordance with a SAVVY Cirrus SR22x guide for oil changes and associated service items (no sparkplug cleaning, gapping and rotating done at this time) and has been approved for return to service.					
C. John Colalunga for Signature Technicair CRS LC1R291K					
 <p>330 Aviation Way Frederick, MD 21701 301-662-8156 CRS LC1R291K</p>					
Date: 7/13/2016; Aircraft: N514BR; Hobbs: 1008.2 Shop Order #: S05-16-62822					
<b>ENGINE LOG ENTRY:</b>					
Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Post maintenance ground run satisfactory, no leaks noted. I certify that this engine has been inspected in accordance with a SAVVY Cirrus SR22x guide for oil changes and associated service items and has been approved for return to service.					
C. John Colalunga for Signature Technicair CRS LC1R291K					







Date: 9/24/2019, Aircraft: N514BR, Hobbs: 1486.7  
Shop Order #: S05-19-63539

#### ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Post maintenance ground run satisfactory, no leaks noted.

C. John Colapinto for Signature Technicair CRS LC1R291K

Date: 1/02/2020, Aircraft: N514BR, Hobbs: 1536.5  
Shop Order #: S05-19-63577, Closed: 12/31/2019  
Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Compression checked as follows: 1-62/80 2-60/80 3-68/80 4-60/80 5-64/80 6-64/80 (master orifice reads 44/80). Inspected all cylinders using borescope and found condition of all consistent with time in service. CW ICA for TCM mags per annual/100 hour inspection requirements. Performed fuel system check/setup and adjusted parameters as required. CW ICA for TCM position tuned nozzles by cleaning and inspection. Re-positioned fuel line support at number three intake tube. Fabricated and installed by riveting a patch on right side outboard baffle. Post maintenance ground run satisfactory, no leaks noted. I certify that this engine has been inspected in accordance with a 100 hour inspection and has been approved for return to service.

C. John Colapinto for Signature Technicair CRS LC1R291K

Date: 7/09/2020, Aircraft: N514BR, Hobbs: 1564.4  
Shop Order #: S05-20-63476

#### ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Post maintenance ground run satisfactory, no leaks noted.

C. John Colapinto for Signature Technicair CRS LC1R291K

MAKE: Cirrus Design  
MODEL: S122  
S/N: 1245  
REG. NO: N514BR  
WORK ORDER:  
3444-07-2020  
DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

DATE: 7/16/2020  
A/C TSN: 1565.4  
HOBBS: 1565.4

#### Airframe Entries

Removed inoperative CHT Probe on #6 Cylinder. Installed new CHT Probe with new wiring connectors, Kit 70134-002 IAW Cirrus SB 2X-77-02 R2 and AMM 77-20 Ops check good

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 7/16/2020

SIGNED:

Gudmundur J. Thorsen  
Certified Repair Station No. 897R016D

Work Order: 3444-07-2020

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## Service and Maintenance Record

Inspections, Airworthiness Directives, Special Inspections, and Service Bulletins

Date: 9/18/2020, Aircraft: N514BR, Hobbs: 1600.6  
Shop Order #: S05-20-63511

#### ENGINE LOG ENTRY:

Oil and filter changed, serviced with Phillips 20W50XC and Camguard additive. Old filter cut open and inspected, no contaminants found. Compression checked as follows: 1-66/80 2-60/80 3-66/80 4-66/80 5-61/80 6-66/80. Post maintenance ground run satisfactory, no leaks noted.

C. John Colapinto for Signature Technicair CRS LC1R291K

ENGINE MODEL: IO550N  
ENGINE S/N: 917486  
REG. NO: N514BR  
WORK ORDER:  
3618-09-2020



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

#### Engine Entries

Performed crankcase pressure test, 75 KNOTS on Altimeter, 90 knots is max limit. Bore scoped cylinders. Light oil found in cyl #3 and #5. Small amount of oil found coming out of cylinder fuel drain mast after priming. Work done IAW TCM M-16.

Checked cylinder intake drain line. Small amount of oil was present at first fuel priming of engine.

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 10/15/2020

SIGNED:

Gudmundur J. Thorsen  
Certified Repair Station No. 897R016D

Work Order: 3618-09-2020

Printed by EBIS 3 (datamedia.com)

ENGINE MODEL: IO550N  
ENGINE S/N: 917486  
REG. NO: N514BR  
WORK ORDER:  
3718-11-2020



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

#### Engine Entries

Complied with 100 hr / Annual Engine Inspection IAW Cirrus SR22 AMM Inspection Guide 5-20. Removed cowlings. Cleaned engine and performed run up. Inspected for leaks and general condition. Performed Compression check: #1 66/80, #2 64/80, #3 73/80, #4 58/80, #5 64/80, #6 68/80 M.O. 42. Checked magneto timing. Inspected electrical wiring for chafing and security.

Dried oil and serviced with 7 quarts of Phillips X/C 20W50 and added 10 fl.oz of CamGuard. Removed and replaced oil filter P/N CH48108-1, cut open and inspected, no metal in filter. Re-installed cowlings and performed post operational run, no leaks noted at this time. Verified AD compliance through bi-weekly issue 2021-02.

Adjusted the Fuel Injection System per Continental M-0 Manual Sections 6-4.10 and 6-4.7.

Removed all 6 fuel injectors and cleaned. Reinstalled injectors with new crush gaskets P/N: X1473 and o-rings P/N: 630979-9. All work performed IAW Continental IO-550 M-16 section 12-4 & 17-11. Leak check good.

AD 2020-16-11 is N/A by no cylinders have been replaced on or after November 1, 2014

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 1/20/2021

SIGNED:

Gudmundur J. Thorsen  
Certified Repair Station No. 897R016D

Work Order: 3718-11-2020

Printed by EBIS 3 (datamedia.com)

## Service and Maintenance Record

Inspections, Airworthiness Directives, Special Inspections, and Service Bulletins



ENGINE MODEL: 10550N  
ENGINE S/N: 917486  
REG. NO. N514BR  
WORK ORDER: 3873-01-2021



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

DATE: 3/4/2021  
A/C TSN: 1670.7  
ENG TT: 1670.7  
TSMOH:  
HOBBES: 1670.7

Record  
inspections,

#### Engine Entries

Complied with Oil Change and Associated Service Items for Cirrus SR22 in accordance with Cirrus SR22 AMM Sect. 12-10. Removed engine cowlings. Drained and serviced engine with 7 quarts of Phillips X/C 20W50 Oil and 11oz of Camguard. Recovered oil sample. Removed and inspected oil filter, no contaminants noted. Installed new oil filter P/N: CH48108-1. Reinstalled engine cowlings. Leak check good.  
Ignition lead #3B found loose. Torqued ignition lead and checked torque on all leads IAW Continental M-O

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 3/4/2021

SIGNED:

Gudmundur J. Thorgeirsson  
Certified Repair Station No. 897R016D

Work Order: 3873-01-2021

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ENGINE MODEL: 10550N (27)  
ENGINE S/N: 917486  
REG. NO. N514BR  
WORK ORDER: 3857-03-2021



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

DATE: 4/29/2021  
A/C TSN: 1702.8  
ENG TT: 1702.8  
TSMOH:  
HOBBES: 1702.8

#### Engine Entries

Complied with Oil Change and Associated Service Items for Cirrus SR22. Removed engine cowlings. Drained and serviced engine with 7 quarts of Phillips X/C 20W50 oil and 10oz of Camguard. Recovered oil sample. Removed and inspected oil filter, no contaminants noted. Installed new oil filter P/N: CH48109-1, IAW Cirrus SR22 AMM 79-20. Reinstalled engine cowlings. Leak check good.

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 4/29/2021

SIGNED:

Gudmundur J. Thorgeirsson  
Certified Repair Station No. 897R016D

Work Order: 3957-03-2021

Printed by EBIS 3 (datcomedia.com)

ENGINE MODEL: 10550N (27)  
ENGINE S/N: 917486  
REG. NO. N514BR  
WORK ORDER: 4180-06-2021



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

DATE: 6/21/2021  
A/C TSN: 1719.5  
ENG TT: 1719.5  
TSMOH:  
HOBBES: 1719.5

#### Engine Entries

Performed compression test results as follows: #1 56/80, #2 51/80, #3 56/80, #4 64/80, #5 70/80, #6 66/80. Master orifice 44/80. Reinstalled plugs, plug wires and cowlings. Performed engine ground runs, no defects noted at this time.

Performed borescope of all cylinders the #3 and #4 cylinders had some oil in the bottom of cylinders, #5 and #6 cylinders had a little oil in the bottom of cylinders. Reinstalled plugs, plug wires and cowlings. Performed engine ground runs, no defects noted at this time.

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 6/21/2021

SIGNED:

Gudmundur J. Thorgeirsson  
Certified Repair Station No. 897R016D

Work Order: 4180-06-2021

Printed by EBIS 3 (datcomedia.com)

ENGINE MODEL: 10550N (27)  
ENGINE S/N: 917486  
REG. NO. N514BR  
WORK ORDER: 4187-06-2021



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

DATE: 7/27/2021  
A/C TSN: 1721.6  
ENG TT: 1721.6  
TSMOH:  
HOBBES: 1721.6

#### Engine Entries

Removed engine cowlings, RH side baffling and RH exhaust. Removed cylinder #3 assembly P/N: 658595 S/N: AC04JB999 and installed repaired cylinder and valve assembly P/N: 658595 S/N: AC16AB005. Reinstalled exhaust and baffling. All work done IAW Continental IO-550 M-16 and Cirrus SR22 AMM 71-00 & 78-10. Leak and Ops check good.

Removed engine cowlings, LH side baffling and LH exhaust. Removed cylinder #4 assembly P/N: 658595 S/N: AC04JA827 and installed repaired cylinder and valve assembly P/N: 658595 S/N: AC15FB437. Reinstalled exhaust and baffling. All work done IAW Continental IO-550 M-16 and Cirrus SR22 AMM 71-00 & 78-10. Leak and Ops check good.

Performed oil change due to Cyl 3 & 4 replacement referencing Cirrus SR22 AMM 12-10. Drained oil and removed oil filter. No contaminants found. Installed new oil filter P/N: CH48108-1, serviced engine with 7 qts of Phillips 20W-50 mineral oil. Leak check good.

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 7/27/2021

SIGNED:

Gudmundur J. Thorgeirsson  
Certified Repair Station No. 897R016D

Work Order: 4187-06-2021

Printed by EBIS 3 (datcomedia.com)

ENGINE MODEL: 10550N (27)  
ENGINE S/N: 917486  
REG. NO. N514BR  
WORK ORDER: 4463-11-2021



DeltaFox Aviation  
Repair Station No. 897R016D  
10771 James Payne Court  
Manassas, VA 20110  
Phone: 703.438.8450

DATE: 11/2/2021  
A/C TSN: 1757.5  
ENG TT: 1757.5  
TSMOH:  
HOBBES: 1757.5

#### Engine Entries

Complied with Oil Change. Removed engine cowlings. Drained and serviced engine with 7 quarts of Phillips X/C 20/50 Oil. Removed and inspected oil filter, no contaminants noted. Installed new oil filter P/N: CH48108-1, IAW Cirrus SR22 AMM 79-20. Reinstalled engine cowlings. Leak checks good.

I certify that the above stated maintenance was performed in accordance with the current regulations of the FAA and the aircraft / engine / component identified above is presently airworthy and approved for return to service.

DATE: 11/2/2021

SIGNED:

Timothy Whitehead  
Certified Repair Station No. 897R016D

Work Order: 4463-11-2021

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### Star Aviation Services

108 Nowlin Lane, Hangar 21  
Chattanooga, TN 37421  
(423) 499-1100

Date: 12/2/2021 N514BR Cirrus SR22 S/N: 1245 HM 1781.4

Removed and replaced the Starter P/N C24STS S/N 4C5-241314 with a new unit P/N C24STS S/N H-V101583 I/A/W Cirrus SR22 AMM and Sky-Tec installation instructions. Ops checked good. Aircraft found to be in an airworthy condition and is approved for return to service for the work performed.

Details are on file at Star Aviation Services under W.O. # M6984P.

Randall W. Moats  
AP33368081A

*Randall W. Moats*



Date

Total Time

Time Since

ENGINE LOG

1-2-2021

Reg: N514BR

Eng S/N: 017480

Make: Cirrus

Model: 440-M2N

Hobbs: 1700.0

Tach: 1700.0

TSMOH:

1700.0 1700.0

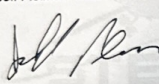
1. C/W ANNUAL INSPECTION in accordance with FAR 43 APPENDIX D - Using TCM/Cirrus AMM as a guide.

2. Removed and cut open oil filter, NDN installed new oil filter P/N AA48108-2. Serviced engine with 8 QT of 20/50 Phillips.

3. Checked compressions #1:60 #3:76 #5:60 #2:68 #4:72 #6:64

I certify that this engine has been inspected in accordance with (annual) inspection and was determined to be in airworthy condition.

Jeff Pleiman 3304319 IA



WWW.STEELAVIATION.COM

Abilene Aero Inc.

N514BR

S/N 17251643

2850 Airport Blvd. Abilene

Date: 4/8/2022

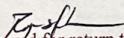
WO#22-22419

TX 79602

A/C TT:1821.6

Drained oil removed filter and inspected for contamination. None found. Installed new AA48108-2 filter.

Serviced engine with 8 quarts of Phillips 20W50XC. Ground ran to check for leaks none noted at this time.



Approved for return to service for work completed

Roger Thackerson AP4152960

[illegible]