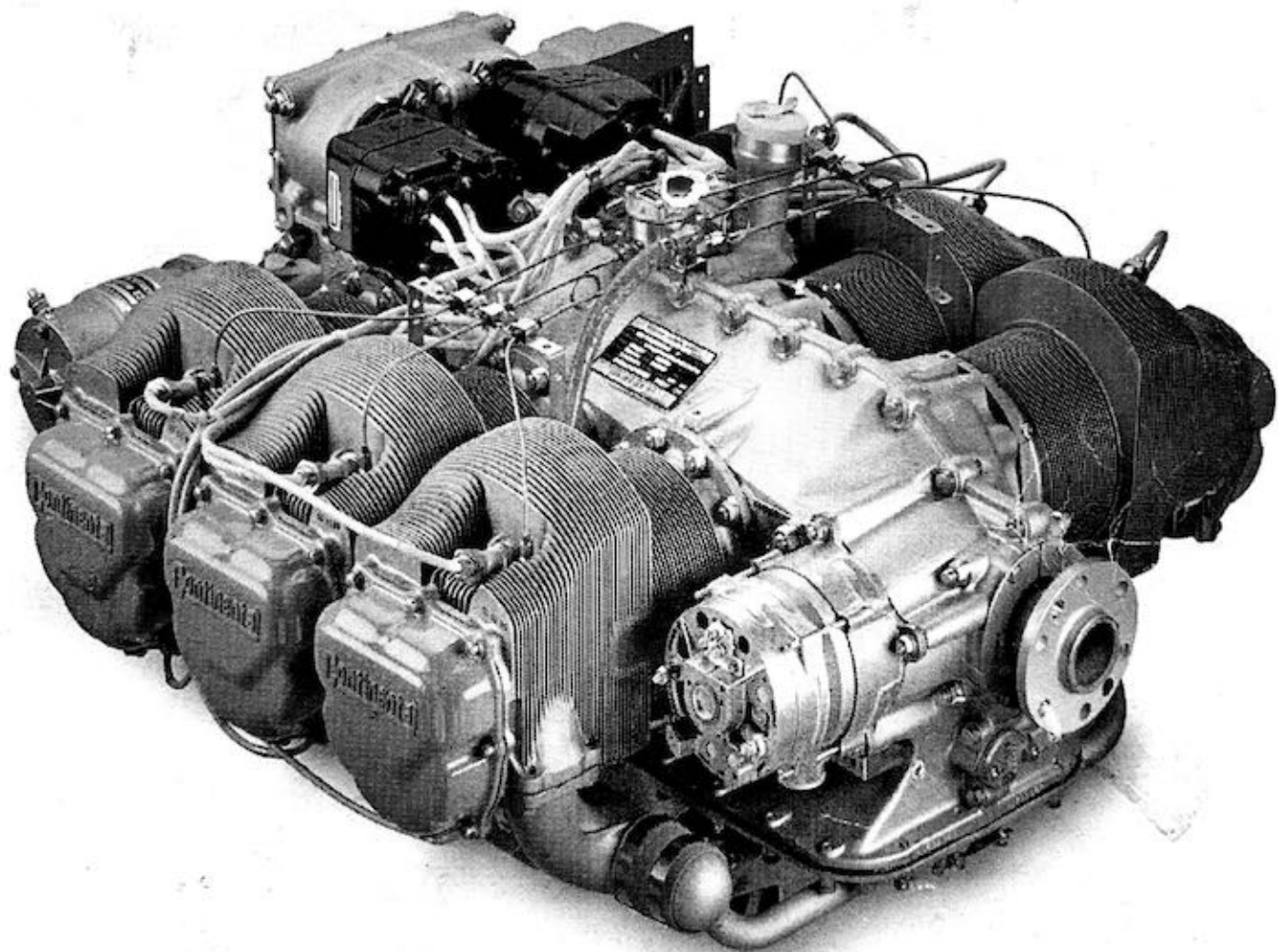


ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

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

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



Teledyne Continental Motors, Inc.

A Teledyne Technologies Company

Printed: 11/14/2002

This engine model **I0550N7**, Serial No. **686839** was manufactured on **11/12/2002** 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

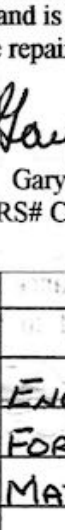
Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
11-22-02	0				Serviced Engine with 8 Qts of Phillips 20 MF50 Straight Mineral Oil on 11/22/02 by 

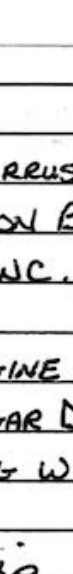
Capitol Wings Airline, Inc

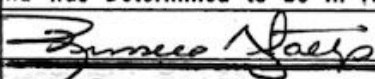
WO#103449 Engine Logbook February 11, 2003
 N385C Continental IO550N7 S/N: 686839
 Hr. Meter: 46.9 Eng. TT: 46.9



Maintenance Performed:

1. Changed oil and filter P/N CH48108. No metal wear found in filter. Serviced with 9 qts. Aeroshell 15W50. No leaks found on runup.
 The engine identified above was repaired, inspected and determined airworthy with respect to the work performed in accordance with current instructions contained in the operators manual/program, the maintenance rules of the Federal Aviation Administration under which the operator is certified and is approved for return to service as per those requirements. Pertinent details of the repair are on file at this repair station.


 Gary Shelton
 CRS# C2WR591W

10-9-2003					ENGINE REMOVED FROM CIRRUS SR22 N385C FOR TEAR DOWN INSPECTION BY TELEDYNE MATTITUCK SERVICES INC.
Hobbs: 94.20					
					* NOTE * REASON FOR ENGINE INSPECTION WAS DUE TO HANGAR DOOR STRIKING PROPELLER DURING WIND STORM.
					 A+P 455827575
10-7-03					REINSTALLED TCM IO550N S/N 686839
Hobbs: 94.20					AFTER INSPECTION BY TELEDYNE MATTITUCK (SEE MAINTENANCE RELEASE + LOG ENTRY), SERVICED WITH AEROSHELL 100 MINERAL OIL, TORQUED MOUNTING BOLTS + INSTALLED NEW KEYED LOCK TABS, INSTALLED NEW BA-24 AIR FILTER, GAPPED SPARK PLUGS, PREOILED ENGINE, REINSTALLED PROP GOVERNOR + ALTERNATOR W/NEW GASKETS AND TORQUED,

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	→				
10-7-03 Hobbs: 94.20		CONT...			REINSTALLED EXHAUST WITH NEW GASKETS, SECURED FLUID LINES + FITTINGS, SERVICED BATTERY, INSTALLED + SECURED ENGINE CONTROLS, LEAK CHECKED EXHAUST, INSPECTED MOUNT FOR CONDITION, INSTALLED NEW HARTZELL PHC-J3YF-1RF PROPELLER S/N FP2407B, LUBRICATED CONTROLS + LEAK CHECKED FLUID LINES. GROUND RUN ENGINE FOR 3 EA. 3 MINUTE RUNS AND CHECKED FOR LEAKS... NONE FOUND, ENGINE COOLING INSTALLED. ADS CHECKED THROUGH 2003-19, SEE AD COMPLIANCE LIST IN AIRCRAFT RECORDS. Aircraft Tach Time ^{94.20} Hrs., Date ¹⁰⁻⁷⁻⁰³ I certify that this Aircraft/Engine has been inspected in accordance with an Annual Inspection and was Determined to be in Airworthy Condition  AHP455827575IA

MAKE	TCM	MODEL	10-550-N	SERIAL No./N No.	686839
TOTAL TIME	94.20	TACH READING	94.20	DATE	25 Jul 03
ENGINE DISASSEMBLED, CLEANED, INSPECTED AND REPAIRED AS NECESSARY. ENGINE TEST CELL RUN OK THIS DATE THIS ENGINE IS AIRWORTHY WITH RESPECT TO THE WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE. PLEASE ENTER TOTAL ENGINE TIME					
TELEDYNE MATTITUCK SERVICES, INC. FAA Repair Station T10R507Y W.O. No. 30714					
					
			 Authorized Signature		

WORK ORDER

Work Order No. 30714 Customer SOUTHWEST TEXAS AVIATION

Part No. 10-550-N Serial No. 686839

Nomenclature TELEDYNE CONTINENTAL AIRCRAFT ENGINE

Description of work performed **INSPECTED FOR SUDDEN STOPPAGE
REPAIRED AS NECESSARY
AND TEST CELL RUN**

All work performed in accordance with applicable manufacturer's maintenance and parts manuals.

Date 7-25-03 Signed James C Bayh

TELEDYNE MATTITUCK SERVICES, INC.

FAA Repair Station T10R507Y

MAINTENANCE RELEASE

This Engine or Accessory or Component identified on this tag was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and with respect to the work performed, it is airworthy and approved for return to service. Pertinent details of the repair are on the reverse side of this tag.

Work Order No. 30714

Date 7-25-03 Signed Jan C Bayle

TELEDYNE MATTITUCK SERVICES, INC.

Airway Drive
Mattituck, NY 11952
(631) 298-8330

RS T10R507Y Limited Airframe
Powerplant 1; Limited Accessory
Specialized Service

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	→				
12-10-03	112	7			DRAINED OIL + REMOVED FILTER. ADDED 8QTS AEROSHELL 100 MINERAL OIL + INSTALLED NEW CH48108 FILTER. CUT OPEN OLD FILTER AND INSPECTED FOR METAL... NONE FOUND. WASHED ENGINE + LEAK CHECKED.
					<i>Zimmer Ship</i> A+P455827575
2-11-04	127	2			REMOVED STARTER + INSTALLED NEW STARTER PIN 656181 AS PER CIRRUS S.B. 2X-80-01.
					<i>Zimmer Ship</i> A+P455827575
2-26-04	129	2			DRAINED OIL + REMOVED FILTER, SERVICED ENGINE WITH 8QTS AEROSHELL 15W50 + NEW CH48108 FILTER. CUT OPEN OLD FILTER + INSPECTED FOR METAL... NONE FOUND. WASHED ENGINE AND LEAK CHECKED.
					<i>Zimmer Ship</i> A+P455827575
4-20-04	156	0			DRAINED OIL + REMOVED FILTER. SERVICED ENGINE W/8QTS AEROSHELL 15W50 AND INSTALLED NEW CH48108 FILTER. WASHED ENGINE + LEAK CHECKED. CUT OPEN OLD FILTER + INSPECTED FOR METAL... NONE FOUND.
					<i>Zimmer Ship</i> A+P455827575

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 →

Date: 7-1-04 Hobbs: 160.2 Reg.#: N385C

Southwest Texas Aviation Inc.
1815 Airport Dr. San Marcos, Texas 78666
(512) 353-3455

Inspected engine in accordance with Cirrus inspection checklist. Drained oil and removed filter, serviced engine with 8 qts. Aeroshell 15w50 and new CH48108 filter, cut open old filter and inspected for metal...none found, compressions: (1) 74/80, (2) 73/80, (3) 75/80, (4) 75/80, (5) 75/80, (6) 74/80, installed new RHB32E spark plugs and new sealing washers, leak checked exhaust, checked mag timing, washed engine and leak checked, lubed engine controls and inspected for condition, cleaned all fuel nozzles and reinstalled with new seals, installed new bracket air filter element p/n BA-24, inspected fluid lines for security and condition, inspected engine controls for security and condition,
(continued)

Date: 7-1-04 Hobbs: 160.2 Reg.#: N385C

Southwest Texas Aviation Inc.
1815 Airport Dr. San Marcos, Texas 78666
(512) 353-3455

function tested and lubricated alternate air control, installed new alt. air hose support mount P/N 15196-002, inspected engine mount and isolators for signs of wear and condition, checked wiring for security and condition, secured all rocked cover screws, installed engine case vent S.B. 2X-71-07, checked mags per TCM S.B. 04-05 (N/A by S/N's), AD 96-12-07 not due at this time (Due @ Hobbs: 500.0), AD's checked through 2004-12, see compliance list in aircraft records.

[Signature]
A&P 455827575 IA

					Aircraft Tach Time 160.2 Hrs., Date 7-1-04
					I certify that this Aircraft/Engine has been
					Inspected in Accordance with a General Inspection
					and was Determined to be in Airworthy Condition
					<i>[Signature]</i>
					A+P455827575

Southwest Texas Aviation Inc.
1815 Airport Dr. San Marcos, Texas 78666
(512) 353-3455

Date: 10-24-04 Hobbs: 184.5 Reg.#: N385C

Removed all cam followers and inspected visually, reinstalled with all new locking tabs and gaskets. Drained oil & removed oil filter. Took SOAP sample. Serviced engine with 8 qts. of Aeroshell 15W50 and installed new CH48108-1 filter. Cut open old filter & inspected for metal, none found. Washed engine & leak checked.
Daniel M. Huchton *Daniel M. Huchton* A&P 454882304

23 Aug 05	Hobbs	252	Compressions	1) 72/80, 2) 76/80, 3) 73/80, 4) 73/80, 5) 75/80, 6) 75/80	
				REPLACED CLAMP FOR RIGHT EXHAUST COOKING DUCT. REPLACED ENGINE AIR FILTER. ALL ROUTINE ITEMS ACCOMPLISHED AS PER INSPECTION SHEETS	
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. - END -	
				<i>[Signature]</i> 346820332A	

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 Logbook Entry
KENOSHA AERO, INC
Kenosha, WI 53144

AIRCRAFT: N385C

HM: 234.3

DATE: 6-15-05

Oil change. Drained oil, removed filter, cut filter open, check for metal OK. Installed 6 quarts 15W50 oil and CH48108 filter. Safetied. Checked for leaks. Took oil sample. Aired tires. Installed new oil dipstick gasket. W/O #13599

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.

Signed Jack J. Rutter for Kenosha Aero, Inc., Certificate No. KABR076A

Aviation Plus LLC

9870 W 52nd Street
Kenosha WI 53144
(262)656-1260
www.aviationplusllc.com

11/21/05 N385C Hobbs 283.5
Changed oil and filter. Added 8 quarts Aeroshell 15W50.

Robert Russell
Robert Russell 3997643171A

Aviation Plus LLC
9879 W 52nd Street
Kenosha WI 53144
262-656-1260
www.aviationplusllc.com

N385C 4/25/2006 Hobbs 333
Changed oil and filter. Added 8 quarts Aeroshell 15W50.

Robert Russell
Robert Russell 3997643171A

08/01/06 HOBBS 371 HRS; TIME 371 HRS; CHANGED OIL AND FILTER (8 QT 15W50 AEROSHELL); COMPRESSIONS: #1 74 #2 75 #3 73 #4 70 #5 75 #6 76; ALL ROUTINE ITEMS CHECKED AS PER INSPECTION SHEETS; I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION.
Robert Russell 3997643171A


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 \longrightarrow

Aviation Plus LLC
9870 W 52nd Street
Kenosha WI 53144
262-656-1260
aviationplusllc.com

N385C 12/11/06 Hobbs 388.6
Changed oil and filter. Added 8 quarts Aeroshell 15W50.

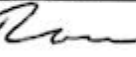

Robert Russell 3997643171A

09/20/07 HOBBS 436.6 HRS; TTE 436.6 HRS; —
CHANGED OIL AND FILTER (8, A15W50 AEROSHELL);
CLEANED MAG METER; COMPRESSIONS: #1 70# 2 70
#3 60# 4 68# 5 69# 6 73; ALL ROUTINE ITEMS CHECKED
AS PER INSPECTION SHEETS; I CERTIFY THAT
THIS ENGINE HAS BEEN INSPECTED IN —
ACCORDANCE WITH AN ANNUAL INSPECTION
AND WAS DETERMINED TO BE IN AIRWORTHY
CONDITION.  3997643171A

Aviation Plus LLC
262-656-1260
aviationplusllc.com

N385C 06/10/2008 Hobbs 543
Changed oil. Added 8 quarts Aeroshell 15W50. Replaced o-rings in right brake caliper.


Robert Russell 3997643171A

10/15/08 HOBBS 566 HRS; TTE 566 HRS; ~~CHANGED OIL AND~~
~~FILTER~~ (REINSTALLED MAGS METER 500 HR INSPECTION
BY RLB NECESSARY (WA 8530 + 8531); AD 2008-19-08
DNA (ECC CYLINDERS NOT INSTALLED); COMPRESSIONS
#1 74# 2 73# 3 73# 4 72# 5 73# 6 72#; ALL ROUTINE ITEMS
CHECKED AS PER INSPECTION SHEETS; I CERTIFY
THAT THIS ENGINE HAS BEEN INSPECTED
IN ACCORDANCE WITH AN ANNUAL INSPECTION
AND WAS DETERMINED TO BE IN AIRWORTHY
CONDITION.  3997643171A

MAINTENANCE RELEASE

UNIT NAME Magneto SERIAL NO. DO2KA012

PART NO. S6RSC-25 (10-500556-1) MFG.: TCM

OVERHAUL REPAIRED TESTED INSPECTED FUNCTIONAL TESTED

500Hr.

The Aircraft component identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of the repair are on file at this repair station under work order # 8530.

OWNER: Aviation Plus DATE: 10-11-08 SIGNED FOR: Robert C. Bejn

R L B ACCESSORY SERVICE

971 Babbitt Avenue • Addison, Illinois 60101-1221

FAA Approved repair station # KB2R946K

over

MAINTENANCE RELEASE

UNIT NAME Magneto SERIAL NO. D02KA016

PART NO. S6RSC-25 (10-500556-1) MFG.: TCM

OVERHAUL REPAIRED TESTED INSPECTED FUNCTIONAL TESTED

The Aircraft component identified above was repaired and/or inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of the repair are on file at this repair station under work order # 8531.

OWNER: Aviation Plus DATE: 10-11-08 SIGNED FOR: Robert C. Beja

R L B ACCESSORY SERVICE

971 Babbitt Avenue • Addison, Illinois 60101-1221

FAA Approved repair station # KB2R946K

over

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



AIRCRAFT REG: N385C
MFG: TCM
MODEL: IO 550 N
SERIAL: 686839
HOUR METER: 582.1

DATE: 1/12/09
WORK PACKAGE: P157z
TACH TIME
ENG TOTAL TIME
TSMOH:

Removed, cleaned and tested spark plugs. Checked all spark plug leads with high tension lead tester. Checked timing in accordance with TCM maintenance manual. Performed Ground run and mag check good

The aircraft, airframe, engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under work package no

P157z

Signed

Gregory A Lammers

for Epps Air Service, Inc. ESMR688D 1 Aviation Way Atlanta GA 30341 Page of Pages

A+ aviation Plus LLC
262-656-1260
aviationplusllc@aol.com

N385C 2/11/2009 Hobbs 598.7
Changed oil and filter. Added 8 quarts Aeroshell 15W50.

Mark Stein 2694878A&P

Date	Total Time		Time Since Last Overhaul		Engine Service and Maintenance Record Installation: Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward \rightarrow



AIRCRAFT REG: 385C DATE: 1/11/09
 MFG: Cirrus Design Corp WORK PACKAGE: T4475
 MODEL: SR-22 TACH TIME:
 SERIAL: 0433 ENG TOTAL TIME:
 HOUR METER: 581.4 TSMOH:

*** Engine ran rough intermittently at 6000 ft, mixture full rich *** Cleaned all fuel nozzles, removed and cleaned gascolator screen and reinstalled. Flow checked nozzles with primer pump, reinstalled nozzles. Note: induction pipes were removed to facilitate maintenance, and reinstalled with new gaskets. Work performed per the Continental IC 550 Permold series maintenance manual

The aircraft, airframe, engine, propeller or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this repair station under work package no

T4475
74475

Signed Richard J. Davis

for Epps Air Service, Inc., ESMR688D 1 Aviation Way, Atlanta, GA 30341 Page of Pages

Date: 5/19/2009; Aircraft: N385C; Type: SR22; S/N: 0433; Hobbs: 649.2; Total Time: 649.2

Engine Work ID 4758
 Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, Serviced engine with 8 qts. 15W50 Aeroshell.

Ground run for ops and leak check good.

Dan Stammen
A&P 2636878

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Owner Oil Change

9-1-09
Hobbs 700

Changed oil and filter p/n CH48108-1, took sample and sent to Blackstone Lab, cut filter no metal noted, Service engine w/ 8 qts. 15W50 Aeroshell.

Ground run for ops and leak check good.

James Scudder, Jr.—Owner/Pilot
 QRBBC 60 Quentin Road
 Lake Zurich, IL 60047

AUTHORIZED RELEASE CERTIFICATE

FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving National Aviation Authority/Country: FAA/United States				3. Form Tracking Number: 2990		
4. Organization Name and Address: Teledyne Continental Motors, 2039 Broad Street, Mobile, Alabama 36601			FAA/PMA	5. Work Order/Contract/Invoice Number: EPN: 99140 CATE: 0000019094		
6. Item: 1	7. Description: HARNESS	8. Part Number: 10-823674-25	9. Eligibility: * N/A	10. Quantity: 1	11. Serial/Batch Number: N/A	12. Status/Work: New

13. Remarks:
AIRWORTHINESS APPROVAL

14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.		19. <input type="checkbox"/> 14 CFR 43.9 return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.	
15. Authorized Signature: <i>Daniel L. Nicholas</i>	16. Approval/Authorization No.: DMIR#CE-511010	20. Authorized Signature:	21. Approval/Certificate No.:
17. Name (Typed or Printed): Daniel L. Nicholas	18. Date (m/d/y): Sep/16/2009	22. Name (Typed or Printed):	23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by user/installer before aircraft may be flown.

Record
inspections,

Date: 11/10/2009; Aircraft: N385C; Type: SR22; S/N: 0433; Hobbs: 730.8; Total Time: 730.8; Engine - Type: IO-550N7, S/N: 686839, Time: 730.8; Prop - Type: PHC-J3YF-1RF, S/N: FP2407B, Time: 636.6

Engine Work

Brought

Completed an Annual inspection in accordance with FAR 43, Appendix D.
AD 04-08-10 (5/5/04) ECI cylinder inspection, not applicable by ECI cylinders not installed. AD 07-04-19 (5/07/07) Superior Air Parts cast cylinders inspection, not applicable by Superior Air Parts cast cylinders not installed. AD 07-16-10 (8/23/07) Turbo compressor rotor inspection, not applicable by engine not turbo charged. AD 09-16-03 (9/9/09) not applicable by Superior Air Parts Investment cast cylinders not installed. AD 09-19-07 (10/7/09) EQ3 cylinders inspection, not applicable by engine model. AD 09-02-03 (2/9/09) Fuel injector servo plug and gasket, not applicable by manufacturer.
Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. 15W50 Aeroshell. Compression test as follows: #1) 78/80, #2) 76/80, #3) 78/80, #4) 73/80, #5) 74/80, #6) 75/80. Replaced #6 cylinder top spark plug p/n RHB32E with new. Replaced ignition lead harness assembly p/n 10-823674-25 with new. Cleaned, gapped and tested spark plugs. Checked mag to engine timing. Checked engine control travels and lubricated. Ground run for ops and leak ck good.

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

Kevin K. Fenske
A&P2886592 IA

Kevin K. Fenske IA2886592

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567



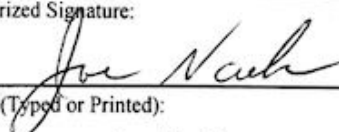
SUNSHINE AIRCRAFT REPAIR, INC
10460 52ND STREET
KENOSHA, WI. 53144
262-656-7051

N#: N385C MAKE: CIRRUS SR-22 S/N: 0433
Date: 04-02-2010 HM: 771.5

ENGINE ENTRY

CHANGED OIL AND OIL FILTER. CUT OPEN OLD OIL FILTER AND EXAMINED FOR CONTAMINATION. NONE NOTED. ADDED AEROSHELL 15W-50 OIL. REPLACED STARTER P/N 646275-1, S/N K010326 (SEE FAA FORM 8130-3 DATED 1-13-2010). REINSTALLED STARTER ADAPTER P/N 642083A10, S/N PGA3190 AFTER REPAIR FROM POPLAR GROVE AIRMOTIVE, INC. FAA REPAIR STATION # YYBR664L (SEE FAA FORM 8130-3 DATED 04-01-10). RAN ENGINE AND CHECKED FOR LEAKS AND OPERATION...END...

Carlos A. Rivera
CARLOS A. RIVERA
AP 2842488

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 3190	
4. Organization Name and Address: Poplar Grove Airmotive, Inc 11619 Route 76 Poplar Grove, IL 61065		CRS: YYBR664L				5. Work Order/Contract/Invoice Number: 3190	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Starter Adapter	642083A10	N/A	1	PGA3190	Repaired	
13. Remarks: Disassembled, cleaned, inspected, repaired and assembled in accordance with TCM overhaul manual P/N X30594A dated 6/1992. Installed M28 size clutch spring.							
14. Certifies the items identified above were manufactured in conformity to:				19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13			
<input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.				Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.			
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.:	
						YYBR664L	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed):		22. Date (m/d/y):	
				Joe Naebe		04/01/10	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 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 National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: K010326	
4. Organization Name and Address: KELLY AEROSPACE ENERGY SYSTEMS, 2900 SELMA HWY., MONTGOMERY, AL. 36108					5. Work Order/Contract/Invoice Number: W/O: M315300		
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	STARTER ***** MOD/NO END *****	646275-1	N/A	1	K010326	OVERHAULED	
13. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM KELLY AEROSPACE ENERGY SYSTEMS CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 12/13 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER UT2R226L. APPROVED FOR EXPORT THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES IDENTIFIED AS MOD/NO & ORIG. MFG. COMPLIES WITH PPS-9001 LATEST REVISION. OVERHAULED PER TCM SERVICE INSTRUCTION X30592, DATED 1/87.							
14. 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 13.			19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.				
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature: <i>John Poole</i>		21. Approval/Certificate No: UT2R226L	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): John Poole		23. Date (m/d/y): JAN 13 2010	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.							
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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.							
Statements in Block 14 and 19 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.							

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections,

Date	Total Time		Time Since Last Overhaul	
	L.Hrs	R.Hrs	L.Hrs	R.Hrs

Brought For

Date: 9/22/2010; Aircraft: N385C; Type: SR22; S/N: 0433; Hobbs: 816.7; Total Time: 816.7

Engine Work

Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 8 qts. Shell 15W50. Ground run for ops and leak checked good. Cleaned, gapped and tested spark plugs.

Dan Stammen
A&P 2636878

Dan Stammen 2636878 A&P

Wisconsin Aviation - Madison
3808 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Registration:	N385C	Date:	12/22/2010
Manufacturer:	TCM	Hobbs Time:	838.9
Model:	IO-550-N7	TSMOH:	N/A
Serial Number:	686839	Total Time:	838.9

Annual Inspection accomplished IAW Title 14 CFR Part 43 Appendix D.

- AD10-11-04 Teledyne Continental hydraulic lifter inspection complied with by verifying that engine serial number is not applicable by date and no lifters were replaced during affected dates.
- AD's checked thru bi-weekly revision 2010-26.
- Cylinder compressions - #1 75/80, #2 70/80, #3 75/80, #4 70/80, #5 71/80, #6 74/80.
- Removed engine oil filter, disassembled and inspected. No abnormal contaminants found. Installed new oil filter P/N CH48108-1, torqued and safetied. Serviced with 7qts of Aeroshell 15W50 oil.
- Installed new spark plug P/N RHB32E to # 6 cylinder top position and torqued.
- Installed new support clamp P/N 652436-1 to # 1 injector line.
- Removed fuel nozzles, disassembled filters/covers and cleaned. Reinstalled fuel nozzles using 6 ea. P/N 630979-9 o rings and torqued. Installed filters and covers. Reconnected injector lines using 6 ea. P/N 640612 washers and torqued.
- Secured EGT probe wires for # 3 and # 5 cylinders away from induction drain line.
- All work performed as per Cirrus Design SR22 and TCM IO-550 maintenance manuals.

I certify that this ENGINE has been inspected IAW an ANNUAL INSPECTION and has been determined to be in an airworthy condition.

Michael C. Dunkley

Michael C. Dunkley
A&P 2378026 IA

Owner Oil Change 7/21/11 Hobbs 899.6

Changed oil and filter p/n Ch48108-1, took sample and sent to Blackstone Lab, cut filter and found trace metal and considerable carbon crystals. Serviced engine with 8 qts of 15W50 Aeroshell oil. Checked and topped off break fluid reservoir. Checked and inflated main gear tires to 64psi and nose gear to 40psi. Inspected breaks. Found satisfactory.

Ground run for ops and leak check was good.

James Scudder, Jr. - Owner/Pilot
QRBBC
60 Quentin Road, Lake Zurich IL 600047

James Scudder, Jr.

Changed oil and filter p/n Ch48108-1, took sample and sent to Blackstone Lab, cut filter and found minimal trace metal. Serviced engine with 8 qts of 20W50 Conoco Philips X/C oil. Added 12 oz ASL Camguard.

Ground run for ops and leak check was good.

James Scudder, Jr. - Owner/Pilot
QRBBC
60 Quentin Road, Lake Zurich IL 600047



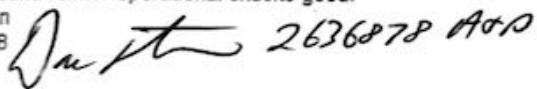
Service and Maintenance Record
Inspections, Airworthiness Directives, Special Inspections,
and Service Bulletins

Date: 10/06/2011; Aircraft: N385C; Type: SR22; S/N: 0433; Hobbs: 920.0; Total Time: 920.0

Airframe Work

Replaced #3 cylinder EGT probe p/n 14554-001 with new. Replaced #3 cylinder CHT probe p/n 14880-001 with new. Ground run for operational checks good.

Dan Stamm
A&P 2638878



2638878 A&P

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



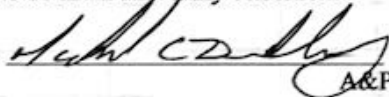
Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Registration:	N385C	Date:	01/06/2012
Manufacturer:	TCM	Hobbs Time:	940.9
Model:	IO-550-N7	TSMOH:	N/A
Serial Number:	686839	Total Time:	940.9

Annual Inspection accomplished IAW Title 14 CFR Part 43 Appendix D.

- AD's checked thru bi-weekly revision 2011-27.
- Cylinder compressions - #1 76/80, #2 77/80, #3 70/80, #4 75/80, #5 77/80, #6 72/80.
- Drained engine oil and removed filter. Cut open filter and inspected for contaminants. No containments found. Installed new filter P/N CH48108-1, torqued and safetied. Serviced engine with 7 quarts Phillips 20W50 oil.
- Performed a borescope inspection of engine cylinders. No defects were found.
- Installed new spark plugs 10 ea. P/N RHB¹32E. Cleaned, gapped, tested and reinstalled the 2 serviceable plugs. Torqued all plugs and reconnected harness.
- Performed Ground run. Operation normal.
- All work performed as per Cirrus Design SR22 and TCM IO-550 maintenance manuals.

I certify that this ENGINE has been inspected IAW an ANNUAL INSPECTION and has been determined to be in an airworthy condition.



Michael C. Dunkley
A&P 2378026 IA

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	3				Owner Oil Change 9/6/12 Hobbs 995.8 Changed oil and filter p/n Ch48108-1, took sample and sent to Blackstone Lab, cut filter and found minimal trace metal. Serviced engine with 8 qts of 20W50 Conoco Philips X/C oil. Added 12 oz ASL Camguard. Ground run for ops and leak check was good. <i>James A Scudder 9-6-12</i> James Scudder, Jr. - Owner/Pilot QRBBC 60 Quentin Road, Lake Zurich IL 600047
					Owner Oil Change 12/14/12 Hobbs 1016.6 Changed oil and filter p/n Ch48108-1, took sample and sent to Blackstone Lab, cut filter and found no trace metal. Serviced engine with 8 qts of 20W50 Conoco Philips X/C oil. Added 12 oz ASL Camguard. Ground run for ops and leak check was good. <i>James A Scudder 12/14/12</i> James Scudder, Jr. - Owner/Pilot QRBBC 60 Quentin Road, Lake Zurich IL 600047
Registration:		N385C		Date:	02/01/2013
Manufacturer:		TCM		Hobbs Time:	1023.4
Model:		IO-550-N7		TSMOH:	N/A
Serial Number:		686839		Total Time:	1023.4
Annual Inspection accomplished IAW Title 14 CFR Part 43 Appendix D.					
<ul style="list-style-type: none"> AD's checked thru bi-weekly revision 2013-02. Cylinder compressions - #1 70/80, #2 75/80, #3 76/80, #4 76/80, #5 74/80, #6 79/80. Performed borescope inspection on all cylinders. No defects found. Drained engine oil and sent sample for analysis. Removed oil filter, disassembled and inspected. No contaminants found. Installed new oil filter P/N CH48108-1 torqued and safetied. Serviced engine with 7 qts Phillips 20W50 oil supplied by owner. Removed left magneto P/N 10-500556-1, S/N D02KA016. Performed a 500 hr inspection with reference to TCM service manual P/N X42002-1. Installed the following new parts: 1 ea. P/N 10-382584 point assembly, 1 ea. P/N 10-92815-37 snap ring, 1 ea. P/N 10-163374 felt strip, 1 ea. P/N 10-50752 felt washer and 1 ea. P/N 10-157158 screw. Set internal timing, "E" gap. Reinstalled on engine with new gasket P/N 10-400613, timed and torqued attachments. Removed Right magneto P/N 10-500556-1, S/N D02KA012. Performed a 500 hr inspection with reference to TCM service manual P/N X42002-1. Removed impulse coupling, disassembled, cleaned, inspected, reassembled, reinstalled, torqued nut and installed P/N 10-90751-18 cotter pin. Installed the following new parts: 1 ea. P/N 10-382584 point assembly, 1 ea. P/N 10-92815-37 snap ring, 1 ea. P/N 10-163374 felt strip, 1 ea. P/N 10-50752 felt washer and 1 ea. P/N 10-157158 screw. Set internal timing, "E" gap. Reinstalled on engine with new gasket P/N 10-400613, timed and torqued attachments. Removed # 1, 2, and 3 induction tubes to facilitate magneto removal. Reinstalled using 3 ea. P/N 649950 gaskets and torqued. Torqued hose clamps and reinstalled magneto harness support clamps. Removed # 4 cylinder exhaust rocker cover, rocker, push rod, pushrod housing and lifter. Inspected cam shaft lobe and lifter for spalling and corrosion; none found. Reinstalled all parts using the following new parts: 1 ea. P/N 534610 packing, 1 ea. P/N 630286 seal, 2 ea. P/N 501868 lock washer and 1 ea. P/N 655705 gasket. Torqued rocker shaft to specification and locked tabs. Reinstalled rocker cover and torqued screws. Removed front left baffle. Repaired cracks on baffle by fabricating patch repair from 2024T3 x .040" and attaching with rivets. Part etched and alodined prior to installation. Reinstalled baffle and torqued attachments. Removed alternate air duct support ring at # 5 exhaust riser. Fabricated new attach ear from .060" stainless steel and welded onto support ring. Reinstalled and torqued clamps. 					

CONTINUED ON NEXT PAGE.



Client: James Scudder
Aircraft: N385C
Flight: 2013-07-15

A/C Type: Cirrus SR22 Normally Aspl...
Engine: Continental IO-550
Monitor: Avidyne Entegra/EX5000 ...

Report Date: 2013-07-18
This is report #1 of subscription
period ending 2014-06-11

Client Comments

This is a normal flight and our first analysis. We are interested in our opinion on how our engine is performing. It has 1078 TT since new.

Summary of Findings

No flight test profiles are noted in the flight. Max power FF is below Savvy's recommendation (27.3gph), but within the range specified by TCM (25.6-27.3gph). Max power RPM is reasonably near red line of 2700, though there is an instant overspeed to 2760. RPM indicates engine is operated near full power throughout the flight. While this is within the operating capability of the aircraft, Savvy recommends against it since it can cause unnecessary wear on the engine. Savvy finds that a lower power setting can give a reasonable balance of performance and economy.

GAMI Lean Test

Sweep #1

Sweep #2

Sweep #3

N/A (no usable mixture sweeps observed)

Observations
Unable to comment
from available data due
to lack of gradual
mixture sweeps.

Ignition

Satisfactory

Non-firing plug(s): None noted
Marginal plug(s): None noted
Split mag timing: Unable to comment due to lack of mag check
Add'l observations:

Max Power

Satisfactory

Max power FF: 26.2gph
Max power RPM: 2680, up to 2760 for one datum
Maximum MAP: 27.2in
Add'l observations:

Temperatures

Satisfactory

CHT's: CHT2&5 peak at 343degF
EGT's: No anomalies noted
TIT(s): N/A
Add'l observations:

Engine Monitor

Satisfactory

Inoperative sensors: None noted
Anomalous channels: None noted
Noisy channels: None noted
Add'l observations:

Powerplant Mgt

Caution

Power: Near full power used throughout flight
Mixture: Satisfactory
Test Profile(s): None noted in flight
Add'l observations:

Electrical

Satisfactory

Primary sys: 28V supplied to engine monitor
Secondary sys: 28.7V supplied to engine monitor
Other sensors: No anomalies noted
Add'l observations:

Recommendations:

No changes recommended at this time. Savvy recommends including flight test profiles whenever possible with data submitted for analysis. Though FF is below Savvy's recommendation, CHTs are reasonable, and max power FF is within TCM's spec. RPM overspeed should be monitored. If RPM persistently rises above ~2710 then adjustments may be recommended.



OIL REPORT

LAB NUMBER: F66225 UNIT ID: N385C
 REPORT DATE: 7/30/2013 CLIENT ID: 37547
 CODE: 20/75 PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Continental IO-550-N7	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 31 Hours
	ADDITIONAL INFO: Cirrus SR22, Eng S/N 686839	

CLIENT	JAMES SCUDDER JR	PHONE: (847) 542-5885
	60 QUENTIN ROAD	FAX:
	LAKE ZURICH, IL 60047	ALT PHONE:
		EMAIL: jscudder2@quentinroad.org

COMMENTS
 JAMES: We're not sure what all has changed since September of last year, but this engine sure does like it. All wear continues to look great this time around and some elements even improved after the longer oil run, which is a bonus. Aluminum is holding below average, so the pistons appear to be doing just fine. Other parts of the engine can also give you aluminum (case fretting for example) but pistons are the most common source. The viscosity was on target again and no harmful contamination turned up. Things are looking just fine at 1,078.5 hours SNew.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	31	UNIT / LOCATION AVERAGES	24	6	21	55	30	UNIVERSAL AVERAGES
	MI/HR on Unit	1,079		1,048	1,023	1,017	996	941	
	Sample Date	07/12/13		05/14/13	01/23/13	12/14/12	09/06/12	12/15/11	
	Make Up Oil Added	2 qts				4qts		3 qts	
	ALUMINUM	6	15	8	6	16	37	20	8
	CHROMIUM	5	5	5	3	6	8	5	7
	IRON	44	49	39	32	60	112	48	43
	COPPER	2	4	2	1	3	5	5	4
	LEAD	4210	4253	3410	2184	4879	7036	4924	5639
	TIN	1	1	0	0	1	4	0	1
	MOLYBDENUM	2	2	2	1	3	3	2	2
	NICKEL	6	7	6	4	9	14	7	8
	MANGANESE	1	1	1	0	1	2	1	1
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	0	1	0	0
	POTASSIUM	1	0	4	0	0	0	0	1
	BORON	1	2	0	1	7	1	2	1
	SILICON	4	4	5	3	4	5	4	6
	SODIUM	3	2	2	1	2	2	2	1
	CALCIUM	100	50	83	69	50	31	64	26
	MAGNESIUM	2	2	1	1	3	2	1	1
	PHOSPHORUS	79	439	120	200	138	257	564	551
	ZINC	16	16	20	10	12	18	18	10
	BARIUM	0	0	0	0	0	0	0	0

Values Should Be*

PROPERTIES		86-105	86.9	84.6	88.4	89.6	91.5
SUS Viscosity @ 210°F	91.4	86-105	86.9	84.6	88.4	89.6	91.5
cSt Viscosity @ 100°C	18.31	17.0-21.8	17.22	16.67	17.60	17.88	18.34
Flashpoint in °F	440	>430	445	470	455	445	480
Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
Antifreeze %	-	-	-	-	-	-	-
Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.0	<0.6	0.5	0.5	0.5	0.6	0.4
TBN							
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com



OIL REPORT

LAB NUMBER: F55790 UNIT ID: N385C
 REPORT DATE: 5/23/2013 CLIENT ID: 37547
 CODE: 20/75 PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Continental IO-550-N7	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 24 Hours
	ADDITIONAL INFO: Cirrus SR22, Eng S/N 686839	

CLIENT	JAMES SCUDDER JR	PHONE: (847) 542-5885
	60 QUENTIN ROAD	FAX:
	LAKE ZURICH, IL 60047	ALT PHONE:
		EMAIL: jscudder2@quentinroad.org

COMMENTS
 JAMES: After 24.3 hours, iron only increased by 7 ppm since the last sample. This shows better wear at steel parts on a per mile basis (ppm/mile) than the previous sample. These metals now compare well with universal averages, which is a good sign. The viscosity was on target this time and measured in the 20W/50 range. We didn't find any measurable fuel or moisture in this sample and insolubles held steady at 0.5%, showing good oil filtration. Keep up the good work and continue taking to the skies. Hopefully the highlight-free reports continue for N385C.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	24	UNIT / LOCATION AVERAGES	6	21	55	30	20	UNIVERSAL AVERAGES
	MI/HR on Unit	1.048		1.023	1.017	996	941	910	
	Sample Date	05/14/13		01/23/13	12/14/12	09/06/12	12/15/11	08/26/11	
	Make Up Oil Added				4qts		3 qts	2 qts	
	ALUMINUM	8	16	6	16	37	20	15	8
	CHROMIUM	5	5	3	6	8	5	3	7
	IRON	39	50	32	60	112	48	33	43
	COPPER	2	4	1	3	5	5	6	4
	LEAD	3410	4257	2184	4879	7036	4924	3717	5633
	TIN	0	1	0	1	4	0	2	1
	MOLYBDENUM	2	2	1	3	3	2	1	2
	NICKEL	6	7	4	9	14	7	4	8
	MANGANESE	1	1	0	1	2	1	0	1
	SILVER	0	0	0	0	0	0	0	0
	TITANIUM	0	0	0	0	1	0	0	0
	POTASSIUM	4	0	0	0	0	0	0	1
	BORON	0	2	1	7	1	2	2	1
	SILICON	5	4	3	4	5	4	3	6
	SODIUM	2	1	1	2	2	2	1	1
	CALCIUM	83	45	69	50	31	64	3	25
	MAGNESIUM	1	2	1	3	2	1	1	1
	PHOSPHORUS	120	475	200	138	257	564	1081	558
	ZINC	20	16	10	12	18	18	17	10
	BARIUM	0	0	0	0	0	0	0	0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	86.9	86-105	84.6	88.4	89.6	91.5	87.9
	cSt Viscosity @ 100°C	17.22	17.0-21.8	16.67	17.60	17.88	18.34	17.47
	Flashpoint in °F	445	>430	470	455	445	480	460
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	-	-	-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.5	<0.6	0.5	0.5	0.6	0.4	0.3
	TBN							
	TAN							
ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com



OIL REPORT

LAB NUMBER: F40160
 REPORT DATE: 2/5/2013
 CODE: 20/75

UNIT ID: N385C
 CLIENT ID: 37547
 PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Continental IO-550-N7	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 6 Hours
	ADDITIONAL INFO: Cirrus SR22, Eng S/N 686839	

CLIENT	JAMES SCUDDER JR	PHONE: (847) 542-5885
	60 QUENTIN ROAD	FAX:
	LAKE ZURICH, IL 60047	ALT PHONE:
		EMAIL: jscudder2@quentinroad.org

COMMENTS
 JAMES: This run was among the shortest runs we've seen from this IO-550-N7, so we expect to see less wear compared to averages. Even with the shorter oil run, this engine is producing more iron that we'd like to see (per hour) though some of this is residual from last time. The viscosity was a bit thin for Phillips XC 20W/50, but that wasn't caused by fuel contamination. No moisture was found either. Insolubles were fine at 0.5%. Check the oil filter for metal and try a borescope to inspect cylinder condition. Check back on iron.

ELEMENTS IN PARTS PER MILLION	UNIT / LOCATION AVERAGES		VALUES					UNIVERSAL AVERAGES
	MI/HR on Oil	MI/HR on Unit	12/14/12	09/06/12	12/15/11	08/26/11	07/21/11	
Sample Date	01/23/13							
Make Up Oil Added			4qts		3 qts	2 qts	8 qts	
ALUMINUM	6	17	16	37	20	15	34	8
CHROMIUM	3	5	6	8	5	3	6	7
IRON	32	51	60	112	48	33	64	43
COPPER	1	4	3	5	5	6	9	4
LEAD	2184	4351	4879	7036	4924	3717	5817	5667
TIN	0	1	1	4	0	2	3	1
MOLYBDENUM	1	2	3	3	2	1	2	3
NICKEL	4	7	9	14	7	4	9	8
MANGANESE	0	1	1	2	1	0	1	1
SILVER	0	0	0	0	0	0	0	0
TITANIUM	0	0	0	1	0	0	0	0
POTASSIUM	0	0	0	0	0	0	0	0
BORON	1	2	7	1	2	2	0	1
SILICON	3	4	4	5	4	3	5	6
SODIUM	1	1	2	2	2	1	1	1
CALCIUM	69	41	50	31	64	3	5	24
MAGNESIUM	1	2	3	2	1	1	3	1
PHOSPHORUS	200	514	138	257	564	1081	996	563
ZINC	10	15	12	18	18	17	25	10
BARIIUM	0	0	0	0	0	0	0	0

Values Should Be*

PROPERTIES	84.6	86-105	88.4	89.6	91.5	87.9	88.1
SUS Viscosity @ 210°F	84.6	86-105	88.4	89.6	91.5	87.9	88.1
cSt Viscosity @ 100°C	16.67	17.0-21.8	17.60	17.88	18.34	17.47	17.52
Flashpoint in °F	470	>430	455	445	480	460	445
Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
Antifreeze %	-	-	-	-	-	-	-
Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Insolubles %	0.5	<0.6	0.5	0.6	0.4	0.3	0.5
TBN							
TAN							
ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com



OIL REPORT

LAB NUMBER: F34294 UNIT ID: N385C
 REPORT DATE: 12/20/2012 CLIENT ID: 37547
 CODE: 20/75 PAYMENT: CC: AmEx

UNIT	MAKE/MODEL: Continental IO-550-N7	OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
	FUEL TYPE: Gasoline (Leaded)	OIL USE INTERVAL: 21 Hours
	ADDITIONAL INFO: Cirrus SR22, Eng S/N 686839	

CLIENT	JAMES SCUDDER JR	PHONE: (847) 542-5885
	60 QUENTIN ROAD	FAX:
	LAKE ZURICH, IL 60047	ALT PHONE:
		EMAIL: jscudder2@quentinroad.org, jascudder@sbcglobal.net

COMMENTS
 JAMES: The shorter time on the oil this time (21 hours vs. 55 hours last time) brought down the iron and probably the aluminum as well. However, on a ppm/hour basis, this Continental is actually making a little more iron than before, showing wear at steel parts (like cylinders). Physically, the oil looks good: no fuel or water was present, and insolubles improved to 0.5%. This isn't a bad report, but check compressions if you haven't, watch for metal in oil filter, and check back in 20-25 hours for another look. Stick with short oil changes like this when you're not flying a lot.

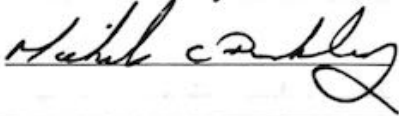
ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	21		55	30	20	52	50	UNIVERSAL AVERAGES
	MI/HR on Unit	1,017	UNIT / LOCATION AVERAGES	996	941	910	890	700	
	Sample Date	12/14/12		09/06/12	12/15/11	08/26/11	07/21/11	09/01/09	
	Make Up Oil Added	4qts			3 qts	2 qts	8 qts	4 qts	
ALUMINUM	16	22	37	20	15	34	12	8	
CHROMIUM	6	6	8	5	3	6	5	7	
IRON	60	61	112	48	33	64	47	43	
COPPER	3	6	5	5	6	9	6	5	
LEAD	4879	5435	7036	4924	3717	5817	6234	5708	
TIN	1	2	4	0	2	3	3	1	
MOLYBDENUM	3	2	3	2	1	2	3	3	
NICKEL	9	9	14	7	4	9	8	8	
MANGANESE	1	1	2	1	0	1	1	1	
SILVER	0	0	0	0	0	0	0	0	
TITANIUM	0	0	1	0	0	0	0	0	
POTASSIUM	0	0	0	0	0	0	0	0	
BORON	7	2	1	2	2	0	1	1	
SILICON	4	4	5	4	3	5	4	6	
SODIUM	2	2	2	2	1	1	1	1	
CALCIUM	50	26	31	64	3	5	5	23	
MAGNESIUM	3	2	2	1	1	3	2	1	
PHOSPHORUS	138	672	257	564	1081	996	994	575	
ZINC	12	18	18	18	17	25	16	10	
BARIUM	0	0	0	0	0	0	0	0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	88.4	86-105	89.6	91.5	87.9	88.1	92.3
	cSt Viscosity @ 100°C	17.60	17.0-21.8	17.88	18.34	17.47	17.52	18.53
	Flashpoint in °F	455	>430	445	480	460	445	470
	Fuel %	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	-	-	-	-	-	-	-
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.5	<0.6	0.6	0.4	0.3	0.5	0.4
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

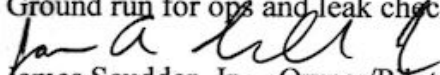
416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com

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 →					
<i>CONTINUED FROM PREVIOUS PAGE</i>					
<ul style="list-style-type: none"> Torqued bolt at mixture control arm attachment and installed safety. All work performed as per Cirrus Design SR22 and TCM IO-550 maintenance manuals and TCM SB96-7C Torque service bulletin.					
I certify that this ENGINE has been inspected IAW an ANNUAL INSPECTION and has been determined to be in an airworthy condition.					
 Michael C. Dunkley A&P 2378026 IA					

Owner Oil Change 5/14/13 Hobbs 1047.7

Changed oil and filter p/n Ch48108-1, took sample and sent to Blackstone Lab, cut filter and found minimal metal. Serviced engine with 8 qts of 20W50 Conoco Philips X/C oil. Added 12 oz ASL Camguard. Checked and topped off break fluid reservoir. Checked and inflated main gear tires to 64psi and nose gear to 40psi. Inspected breaks. Found right main pad worn.

Ground run for ops and leak check was good.


James Scudder, Jr. - Owner/Pilot
QRBBC

60 Quentin Road, Lake Zurich IL 60047

Registration:	N385C	Date:	07-12-2013
Manufacturer:	Continental	Hobbs Time:	1078.5
Model:	IO-550-N7	TSMOH:	1087.5
Serial Number:	686839	Total Time:	1087.5

Removed cowling. Drained oil. Removed filter and inspected. No contamination found. Installed new oil filter P/N CH48108-1, torqued and saftied. Filled engine with 8 quarts of Philips X/C 20W50. Reinstalled cowling and performed engine leak check. No leaks noted.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Administration and is approved for return to service.


Signed: 
A&P 3041483



4525 Airport Approach Rd. Duluth, MN 55811
(218) 727-2911
Cirrus Authorized Service Center
Cessna Authorized Service Facility

Date: 10/15/2013; Aircraft: N385C; Type: SR22; S/N: 0433; Hobbs: 1115.9; Total Time: 1115.9; Engine - Type: S/N, Time, SMOH:
Shop Order #: 13-8668

Changed oil and filter P/N CH-48108-1. Serviced with 8 quarts Phillips 20W50 X/C. Cut open and inspected oil filter, no discrepancies noted. Operational and leak checks good. All work done IAW CDC AMM 12-10.

Signature: 
Steven J. LaMourea A&P 2841160

Aerotech of Louisville Inc.

2209 Watterson Trail
Louisville, KY 40299

FAA Certified Repair Station # PU4R453M
TCM TW5000 Alternator Maintenance Release

Model <u>24V 60A</u>	Part No. <u>646843</u>	Serial No. <u>004BA067</u>
Work Order No. <u>110357</u>	Technician <u>Chris Fajardo</u>	Date <u>01-06-14</u>

This unit was disassembled, cleaned, inspected, reassembled, and tested in accordance with current manufacturer's overhaul manual specifications and in accordance with current F.A.A. regulations concerning this unit.

The Following Parts Have Been Replaced (All Other Parts Are Serviceable)

Qty.	Part#	Desc.	Qty.	Part#	Desc.	Qty.	Part#	Desc.
1	646492A1AC	D.E. BEARING						
1	642438AC	C.E. BEARING						
2	646848-1AC	BRUSHES						
1	643265AC	OIL SEAL						
1	MS28775-016	O-RING						
MAJOR OVERHAUL								

In some instances F.A.A. approved P.M.A. parts are used other than the original manufacturer's

AD Notes

AD No.	Int.	Method of Compliance	AD No.	Int.	Method of Compliance

Service Bulletins Complied With

This unit is approved for return to service

Signature John C. Evans Date 01-06-14

N 3856

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:

INV #:

1. Approving National Aviation Authority/Country:
FAA/UNITED STATES

4. Organization Name and Address:

Aerotech of Louisville, Inc. 2209 Watterson Trail Louisville, KY 40299

5. Work Order, Contract, or Invoice Number:

W/O: 110357

6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	TCM ALTERNATOR	646843 ✓	N/A	1	S/N 004BA067 ✓	Overhauled

13. Remarks:

**This item was overhauled by Aerotech of Louisville, Inc. on W/O # 110357 Dated 01/06/2014
FAA Approved repair station number PU4R453M.
Overhauled unit per overhaul manual TW5000**

14. Certifies the items identified above were manufactured in conformity to:

- Approved design data and are in a condition for safe operation
- Non-approved design data specified in Block 13

19. 14 CFR 43.9 Return to Service Other regulation specified in Block 13

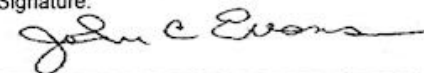
Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:

16. Approval/Authorization No:

20. Authorized Signature:

21. Approval/Certificate No:



PU4R453M

17. Name (Typed or Printed):

18. Date(m/d/y):

22. Name (Typed or Printed):

23. Date:

John C. Evans

01/06/2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

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 accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 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.

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 →

Registration:	N385C	Date:	3/11/2014
Manufacturer:	Continental	Tach Time:	1148.2
Model:	IO-550-N7	TSMOH:	1148.2
Serial Number:	686839	Total Time:	1148.2

-Annual inspection accomplished IAW 14CFR Part 43, Appendix D. using Chapter 5-20, Traditional Program, Annual / 100 Hr, Cirrus Airplane Maintenance Manual as a checklist.

-AD compliance verified through bi-weekly revision 2014-04

-Cylinder compressions were taken with the following results: #1- 66/80, #2- 70/80, #3- 72/80, #4- 70/80, #5-70/80, #6-74/80. Master orifice reading: 52

-Oil drained and filter removed. Filter was cut open and no metallic contamination found. New Champion oil filter P/N CH48108-1 installed, torqued, and saftied. Engine serviced with 7 qts Phillips 20W50 oil and 12 oz. of CamGuard.

-Spark plugs removed, inspected, cleaned, and gap checked. Plugs rotated during reinstallation. Using annealed washers, plugs installed, and torqued per TCM IO-550 Permold Series Engine Maintenance and Overhaul Manual, dated 31 August 2011

-Removed left magneto P/N 10-500556-1, S/N D02KA016. Performed a 500 hr inspection with reference to TCM service manual P/N X42002-3 Section 6-2.3. Installed the following new parts: 1 ea. P/N 10-160844 carbon brush, 1 ea. P/N 10-92815-37 snap ring, 1 ea. P/N 10-163374 felt strip, 1 ea. P/N 10-50752 felt washer, 2 ea. P/N 10-35396-7 screw, 3 ea P/N 10-102083 screw, 5 ea. P/N 10-157158 screw, 4 ea. P/N 10-157160 screw, 1 ea. P/N 10-391213 4 ea. P/N 10-157160 screw, 1 ea. P/N 10-391213 screw and 1 ea. P/N 10-90751-18 cotter pin. Inspected contact assembly with reference to Section 6-2.1. Installed 1 ea. P/N 10-382584 point assembly. Inspected impulse coupling with reference to Section 6-2.2 and found it to be within tolerances. Set internal timing, "E" gap. Reassembled with reference to Section 9-2. Reinstalled magneto on engine with new gasket P/N 10-400613 and timed.

-Removed Right magneto P/N 10-500556-1, S/N D02KA012. Performed a 500 hr inspection with reference to TCM service manual P/N X42002-1 Section 6-2.3. Installed the following new parts: 1 ea. P/N 10-160844 carbon brush, 1 ea. P/N 10-92815-37 snap ring, 1 ea. P/N 10-163374 felt strip, 1 ea. P/N 10-50752 felt washer, 2 ea. P/N 10-35396-7 screw, 3 ea P/N 10-102083 screw, 5 ea. P/N 10-157158 screw, 4 ea. P/N 10-157160 screw, 1 ea. P/N 10-391213 screw and 1 ea. P/N 10-90751-18 cotter pin. Inspected contact assembly with reference to Section 6-2.1. Installed 1 ea. P/N 10-382584 point assembly. Inspected impulse coupling with reference to Section 6-2.2 and found it to be within tolerances. Set internal timing, "E" gap. Reassembled with reference to Section 9-2. Reinstalled magneto on engine with new gasket P/N 10-400613 and timed.

-Removed # 4 induction tube to facilitate magneto removal. Reinstalled using gasket P/N 649950 and torqued per TCM torque specification.

-Fuel injection nozzles were removed, cleaned in ultrasonic cleanser bath, and reinstalled with new P/N 630979-9 (x6) o-rings and P/N 640612 (x6) flat washers. Work was done referencing Continental® Aircraft Engine Position Tuned Fuel Injector Nozzle Installation and Maintenance Manual, dated 31 August 2011

-Ignition harnesses functional inspected with a high tension cable tester. Functional test okay.

The following people worked on this engine: Joel Braxton, Tim Obarow, and Terry McClary


Terry McClary A&P 2702259IA

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving National Aviation Authority/Country:
FAA/UNITED STATES

2.

3. Form Tracking Number:

INV #:

4. Organization Name and Address:

Aerotech of Louisville, Inc. 2209 Watterson Trail Louisville, KY 40299

5. Work Order, Contract, or Invoice Number:

W/O: 110363

6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	TCM ALTERNATOR (#1)	646843	N/A	1	S/N 007AA059R	Overhauled

13. Remarks:

This item was overhauled by Aerotech of Louisville, Inc. on
W/O # 110363 Dated 01/16/2014
FAA Approved repair station number PU4R453M.
Overhauled unit per overhaul manual TW5000

*N385C
INSTALLED
2/25/2014*

14. Certifies the items identified above were manufactured in conformity to:

- Approved design data and are in a condition for safe operation
- Non-approved design data specified in Block 13

19. 14 CFR 43.9 Return to Service Other regulation specified in Block 13

Certifies that unless otherwise specified in block 13, the work identified in Block 12 and described in Block 13 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.

15. Authorized Signature:

16. Approval/Authorization No:

20. Authorized Signature:

John C. Evans

21. Approval/Certificate No:

PU4R453M

17. Name (Typed or Printed):

18. Date(m/d/y):

22. Name (Typed or Printed):

John C. Evans

23. Date:

01/16/2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 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 accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 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.

NSN: 0052-00-012-9005

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	→				



Aviation Specialty Services Corp.

Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com

06/23/2014 N385C CIRRUS SR-22 S/N: 0433 H.M: 1,177.7

CONTINENTAL IO-550-N S/N: 686839

ENGINE:

Customer squawked that aircraft will not start. Brought aircraft to hangar and removed top cowling. Tried to ground run and found smoke coming out of starter. Removed starter P/n: 646275-1R S/n: K010326 and replaced with servicable starter P/n: 655566 S/n: 0051. Ground run and ops tested O.K. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.

Ameer F. Mohamed
AP3270645



Aviation Specialty Services Corp.

Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com

06/27/2014 N385C CIRRUS SR-22 S/N: 0433 H.M: 1,179.2

CONTINENTAL IO-550-N S/N: 686839

ENGINE:

Removed starter P/n: 655566 S/n: 0051 and replaced with OH'ed starter P/n: 646275-1 S/n: H-0031224. Starter OH'ed by Hartzell Engine Technologies (CRS#: 1HZR769B) under WO#: M323300 dated 03/29/2014. Ground run and ops tested O.K. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.

Ameer F. Mohamed
AP3270645

Aviation Plus LLC
262-656-1260
Aviationplusllc.com

7/22/2014 N385C Hobbs 1202.8
Changed oil and filter. Added 7 quarts Phillips 20W50XC.

Mark Stein
Mark Stein 2694878 A&P

ord
tions,

Date: 6/12/2014; Aircraft: N385C; Type: CIRRUS SR22; S/N: 0433; Hobbs: 1168.9; Total Time: 1168.9

Airframe Work

Removed fuel gauge p/n 13557-001, s/n 479 and installed as removed serviceable unit p/n 13557-001, s/n 2552. Defueled aircraft and calibrated fuel gauge per Cirrus Maintenance Manual. Operational checked good.

Dan Stammen
A&P 2636878 IA

Dan Stammen 263 6878 IA

Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Owner Oil Change 10/14/14 Hobbs 1240.2

Changed oil and filter p/n Ch48108-1, took sample and sent to Blackstone Lab, cut filter and found no trace metal. Serviced engine with 7 qts of 20W50 Conoco Philips X/C oil. Added 11 oz ASL Camguard. Ground run for ops and leak check was good.

James Scudder, Jr. - Owner/Pilot QRBBC 60 Quentin Road, Lake Zurich IL 600047

James Scudder, Jr.

Aviation Plus LLC
262-656-1260
Aviationplusllc.com

10/24/2014 N385C Tach 1249
Replaced #2 pushrod tube seals.

David Nesvacki
David Nesvacki 26281180 A&P

Registration:	N385C	Date:	12/18/2014
Manufacturer:	Continental	Tach Time:	1262.9
Model:	IO-550-N7	TSMOH:	1262.9
Serial Number:	686839	Total Time:	1262.9

-Oil drained and filter removed. Filter was cut open and no metallic contamination found. New Champion oil filter P/N CH48108-1 installed, torqued, and safetied. Engine serviced with 7 qts Phillips 20W50 oil and 11.2 oz. of CamGuard. Customer supplied oil, CamGuard and filter. Engine was run and no leaks noted.

The following people worked on this engine: Phil Maddux, Terry McClary, and Bob Schwartz

Phil Maddux

Phil Maddux A&P 2810179

Owner Battery Install 6/19/14
Hobbs 1200.0
Installed Gill G-243 Battery purchased from Aircraft Spruce

James Scudder, Jr.
James Scudder, Jr. - Owner / pilot 2720002 QRBBC 60 Quentin Road, Lake Zurich, IL 60047

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2.	3. Form Tracking Number: H-0031224
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AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

4. Organization Name and Address: HARTZELL ENGINE TECHNOLOGIES, 2900 SELMA HWY., MONTGOMERY, AL. 36108 (1HZR769B)	5. Work Order/Contract/Invoice Number: W/O: M323300
---	--

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	STARTER ***** MOD/NO *****	646275-1 MOD/NO END *****	1	H-0031224	OVERHAULED

12. Remarks: COPY OF WORK ORDER AVAILABLE ON REQUEST FROM HARTZELL ENGINE TECHNOLOGIES CERTIFIES THAT THE WORK SPECIFIED IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH EASA PART 145 AND WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.4418 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 1HZR769B. APPROVED FOR EXPORT THE ORIG. EQUIP. MFG. DATA APPEARS ON THE DATA PLATE IN THE LINES IDENTIFIED AS MOD/NO & ORIG. MFG. COMPLIES WITH PPS-9001 LATEST REVISION. OVERHAULED PER TCM SERVICE INSTRUCTION X30592, DATED 1/87.

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: <i>John Poole</i>	14c. Approval/Certificate No: 1HZR769B
13d. Name (Typed or Printed):	13e. Date (dd/mm/yy):	14d. Name (Typed or Printed): John Poole	14e. Date (dd/mm/yy): 29 MAR 2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/acticle.

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.

Statements in Block 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.

Owner Oil Change 1/21/16 Hobbs 1364.0

ord

Changed oil and filter p/n Ch48108-1; took sample and sent to Blackstone Lab; cut filter and found no significant metal; Serviced engine with 8 qts 20W50 Conoco Philips X/C oil. Added 11 oz ASL Camguard. Ground run for ops and leak check was good.

James Scudder, Jr. - Owner / pilot 2720002 QRBBC 60 Quentin Road, Lake Zurich, IL 60047

Registration:	N385C	Date:	05/02/2016
Manufacturer:	TCM	Hobbs Time:	1397.2
Model:	IO-550-N7	TSMOH:	N/A
Serial Number:	686839	Total Time:	1397.2

Annual Inspection accomplished IAW Title 14 CFR Part 43 Appendix D.

- AD's checked thru bi-weekly revision 2016-08.
- Cylinder compressions - #1 68/80, #2 70/80, #3 40/80, #4 71/80, #5 69/80, #6 72/80.
- Removed rocker box cover, rocker shaft and exhaust valve springs from # 3 cylinder. Lapped exhaust valve and reinstalled valve springs and rocker shaft. Installed rocker cover with new gasket P/N 655705 and torqued screws. Cold compression now 63/80.
- Drained oil sample for analysis and drained engine oil. Removed oil filter, disassembled and inspected. No contaminants found. Installed new oil filter P/N CH48108-1, torqued and safetied. Serviced engine with 8 quarts Philips 20W50 oil.
- Removed fuel nozzles, ultrasonically cleaned and inspected. Reinstalled fuel nozzles with the following new parts: 6 ea. P/N X1473 gasket, 6 ea. P/N 640612 washer and 6 ea. P/N 630979-9 o ring. Torqued nozzles, reconnected fuel lines and torqued.
- Removed rocker cover from # 2 cylinder exhaust side and reinstalled using new gasket P/N 655705 and torqued screws.
- Installed 2 ea. P/N RHB32E spark plugs to # 3 cylinder, torqued and installed leads.

All work performed as per Cirrus Design SR22 and TCM IO-550 maintenance manuals and TCM SB96-7C Torque service bulletin.

Work performed by: Michael Dunkley and Philip Schmeid.

I certify that this ENGINE has been inspected IAW an ANNUAL INSPECTION and has been determined to be in an airworthy condition.

Michael C. Dunkley
A&P 2378026 IA

Aviation Plus LLC
262-656-1260
Aviationplusllc.com

01/03/2017 N385C Hobbs 1439

Changed oil and filter(8 qts Phillips 20W50 X/C). Serviced tires and battery as needed.

Robert Russell 3411885IA

Date: 3/28/2017; Aircraft: N385C; Type: CIRRUS SR22; S/N: 0433; Hobbs: 1412.2; Total Time: 1412.2
Engine Work

Date Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted. Serviced engine with 7 qts Phillips 20W50XC oil. Ground run for ops and leaks check normal. Adjusted oil pressure to 60 psi at full power. All work performed in accordance with Cirrus Design SR22 Maintenance Manual.
Dan Stammen
A&P 2636878 IA

cord
actions,

Brought F



Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

Registration: N385C Date: 06-02-2017
Manufacturer: TCM Hobbs Time: 1507.3
Model: IO-550-N7 Total Time: 1507.3
Serial Number: 686839

Annual Inspection accomplished IAW Title 14 CFR Part 43 Appendix D and using Cirrus Design SR22 Maintenance manual P/N 13773-001 Revision B5, dated 15 Dec 2014.

- Performed Cylinder compressions with the following results: #1 65/80, #2 63/80, #3 62/80, #4 68/80, #5 65/80, #6 68/80. Performed cylinder boroscope inspection. No defects noted.
- Drained engine oil and collected sample. Removed, cut open, and inspected oil filter and found it free of contaminants. Installed a new oil filter P/N CH-48108-1, torque and saftied. Serviced engine with 8 quarts of Phillips 66 X/C Avitaion SAE 20W50 oil.
- Installed 12 new spark plugs P/N RHB32E, torqued and installed leads.
- Re-secured #1 cylinder fuel injector line clip under induction hose clamp.
- AD's checked thru bi-weekly revision 2017-11.

Work performed by the following people: Dale Coates, David Blanton, David DeJong and Stephen Swartzentruber.

I certify that this ENGINE has been inspected IAW an ANNUAL INSPECTION and has been determined to be in an airworthy condition.

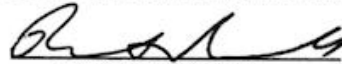


Dale M Coates
A&P # 3041483 IA

Aviation Plus LLC
262-656-1260
Aviationplusllc.com

08/11/2017 N385C Hobbs 1543.5

Changed oil and filter(8qts Phillips 25W50). Checked brake fluid reservoir. Checked tire pressures. Serviced battery.



Robert Russell 3411885IA

9/27/2017 N385C

Cirrus R22

Engine Logbook

Hobbs Hours: 1587.3

Changed oil and filter with Phillips 20W50 oil. Cut open filter to inspect for contamination, none found. Removed and replaced engine oil cooler after repair of cracked mounting flange by K&K Welding per Cirrus MM 79-20. Installed using new Continental gaskets supplied by Poplar Grove Airmotive. Engine was ground run, not leaks noted

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

Signed

David Tahaney A&P 2780247



K & K Precision Welding

2083 Hwy. L Unit 15
 East Troy, WI 53120
 (262) 642-5003
 (414) 333-6833

FAA Certified
 Repair Station
 #XKKR436L

Work Order # 6350

Name: <u>CAMPBELL AIRPORT LLC</u>	Date: <u>9-27-17</u>
Address: <u>2 SOUTH ROUTE 85 ILL.</u>	
City: <u>GRAYS LAKE</u>	State: <u>IL</u> Zip: <u>60030</u>
Phone #: <u>815-245-7996</u>	Fax #:
Aircraft Make - Model: <u>CIARUS</u>	N #: <u>385C</u>

Preliminary Insp.-Limits c/w KW 9-27-17
 Material I.D. c/w KW 9-27-17
 In Progress - Hidden Damage c/w KW 9-27-17
 Completed - Final Inspection c/w KW 9-27-17

Qty.	Part Number	Item Name	Mech In	Insp. Sign	Amount
<u>1</u>		<u>oil cooler</u>	<u>KW</u>	<u>K. Weckel</u>	

Damage Found - Repair Description

Weld 2" on mounting flange as needed
Repair IAW Spec # 1000. No other defects noted

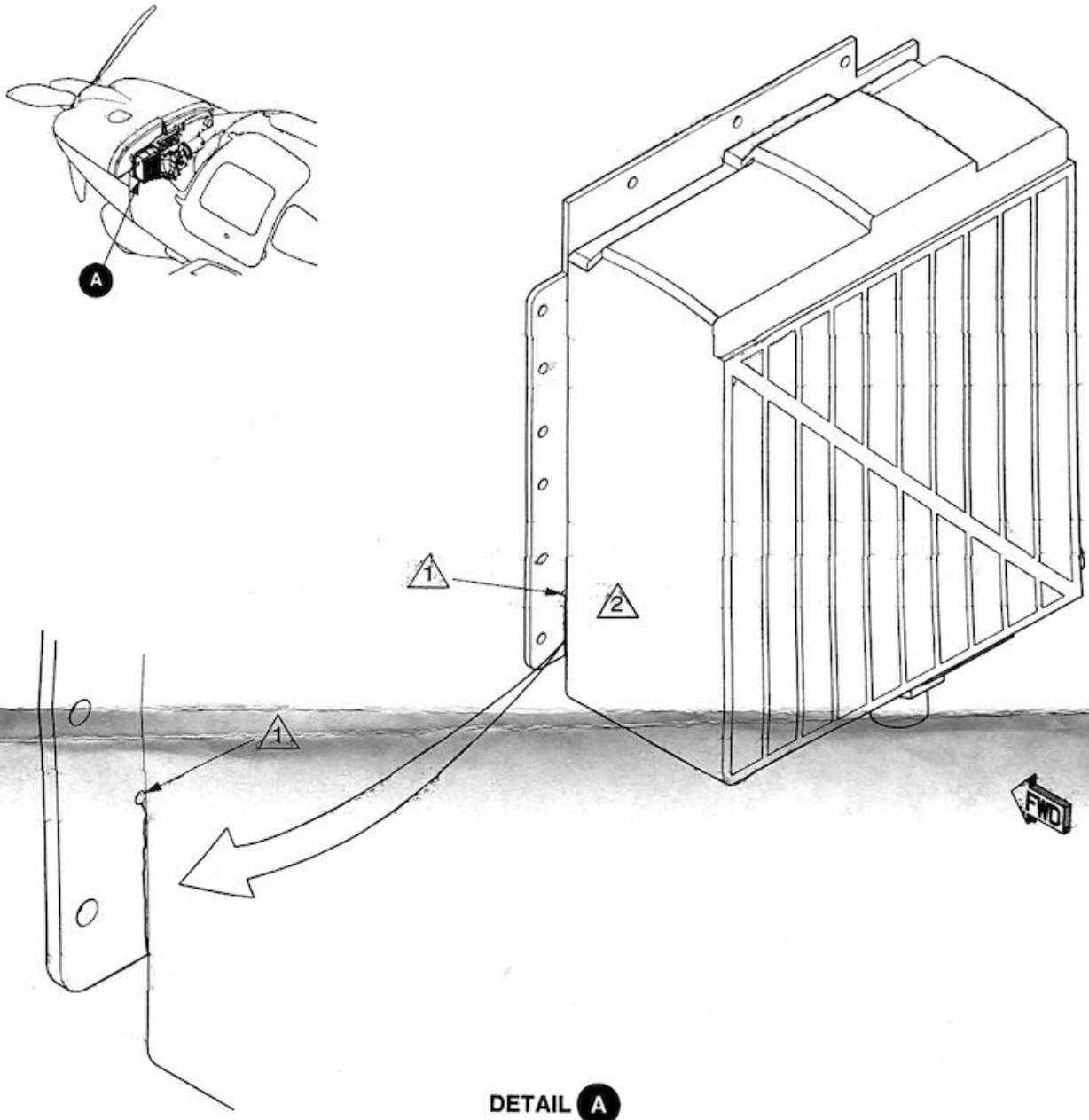
MAINTENANCE RELEASE

The aircraft and/or appliance identified on this form was repaired and inspected in accordance with current FAA regulations and was approved to return to service. Pertinent details of the repair are on file at this agency.

CRS #XKKR436L

Authorized Signature K. Weckel Date 9-27-17

Labor		
Materials		
Misc.		
Shipping		
Tax		
Total Amount		



DETAIL A

NOTE:

- 1 Use stop drill technique in accordance with FAA AC 43.13-1B to prevent crack in oil cooler mounting flange from spreading further.
- 2 If oil cooler mounting flange has any cracks that have spread into the oil cooler body, replace oil cooler.

SR22_MM79_2045

Figure 79-202
Approved Repairs - Oil Cooler Mounting Flange Weld

EFFECTIVITY:
 All

12/4/2017

N385C

Cirrus R22

Engine Logbook

Hobbs Time: 1607.6

Performed oil and filter change in accordance with the manufacturers maintenance manual. Installed 8 quarts of Phillips 20W50 Oil and CH48108 oil filter. Washed engine, run up and checked for leaks.

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

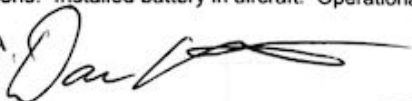
Signed 
David Tahaney A&P 2780247

nce Record
Special Inspections,

Date: 2/22/2018; Aircraft: N385C; Type: CIRRUS SR22; S/N: 0433; Hobbs: 1640.5; Total Time: 1640.5
Airframe

Serviced new battery p/n G-243, s/n G02978955 with acid and charged in accordance with Gill Activation and Service instructions. Installed battery in aircraft. Operational check normal.

Dan Stammen
A&P 2636878 IA



Wisconsin Aviation - Madison
3606 Corben Court
Madison, WI 53704
608-268-5003



Wisconsin Aviation - Watertown
1741 River Drive
Watertown, WI 53094
920-261-4567

4/6/2018

N385C

Cirrus SR22

Engine Logbook

Hobbs 1649.8

Performed oil and filter change in accordance with the manufacturers maintenance manual. Installed 8 quarts of Phillips 20W50 Oil and CH48108 oil filter. Cut open filter to examine for contamination - none found. Washed engine, run and checked for leaks.

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

Signed 
David Tahaney A&P 2780247

MMS Aviation

24387 Airport Road
Coshocton OH 43812
Phone: 740-622-6848

Registration:	N385C	Date:	07/02/2018
Manufacturer:	Continental	Hobbs Time:	1671.1
Model:	IO-550-N7	Tach Time:	
Serial Number:	686839	TSMOH:	1671.1
		Total Time:	1671.1

-Annual inspection accomplished IAW 14CFR Part 43, Appendix D. using Chapter 5-20, Traditional Program, Annual / 100 Hr, Cirrus Airplane Maintenance Manual as a checklist.

-AD compliance verified through bi-weekly revision 2018-13

-Cylinder compressions were taken with the following results: #1- 74/80, #2- 65/80, #3- 67/80, #4- 70/80, #5-73/80, #6-70/80. Master orifice reading: 48

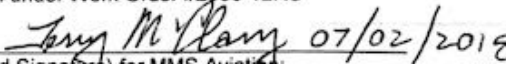
-After pre-inspection engine run, engine oil was drained and filter removed. Opened filter, removed filter media and inspected. No metallic material was found. Installed new Champion CH48109-1 oil filter and torqued per label on filter. Removed oil sump plug, cleaned, and installed with new AN900-10 crush gasket. Engine serviced with 8 quarts Phillips XC20W50. Oil filter and sump plug safetied. Oil sample mailed to Blackstone Lab.

-Spark plugs removed, inspected, cleaned, and gap checked. Spark plugs rotated and reinstalled using annealed washers. Spark plugs torqued per Table B-4, TCM IO-550 Permold Engine Maintenance and Overhaul Manual dated 1 Sept. 2014

-Removed induction air filter element and installed a new Brackett P/N BA24 element

The following people worked on this engine: D. Neely and Terry McClary

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair are on file at this Repair Station under Work Order #2330-12RS

Signed: Terry McClary  07/02/2018

(Authorized Signature) for MMS Aviation;

FAA approved repair station certificate no UUMR721L;
24387 Airport Rd, Coshocton, OH 43812



Travel Express Aviation Maintenance, Inc.
DuPage Airport, West Chicago, IL 60185

Date: 8/15/2018 Aircraft: N385C Model: Cirrus SR22 Serial: 0433 Invoice: 8989

Record
Sections,

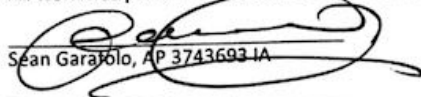
Hobbs: 1673.9

Brought

The following work was accomplished:

- Removed top plugs. Connected testing equipment. Tested compressions: Cylinder #1 – 64/80, #2 – 60/80, #3 – 60/80, #4 – 65/80, #5 – 62/80, #6 – 67/80, Master orifice: .040 – 48 PSI. Reinstalled spark plugs.
- Removed fuel injectors, o-rings and seals. Sonic cleaned fuel injectors and cleaned pressure tubes. Reinstalled injectors using new seals and o-rings. Leak checked and inspected.

All work was performed in accordance with manufacturer's specifications and Federal Aviation Regulations.


Sean Garafolo, AP 3743693 IA

END

Date: 3-19-2019
Registration: N385C
Make: Cirrus SR22
S/N: 433

Airframe Logbook Insert

Hobbs: 1723.2

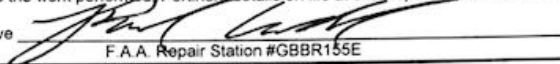
ACTT: 1723.2

**JACKSON
JETCENTER**
FBO CHARTERS MAINTENANCE
3673 Rickenbacker St. Boise, ID 83705

Performed oil change ref Cirrus AMM chapter 20. Removed oil filter. Opened and inspected filter (no contamination noted). Installed new oil filter CH48109-1. Serviced engine with 7 qts. Phillips X/C 20W50. Run up and leak check satisfactory.

MAINTENANCE RELEASE: The Aircraft identified above was repaired and inspected in accordance with current regulations of the F.A.A and the was determined to be in an airworthy condition and approved for return to service with respect to the work performed. Pertinent details on file at this Repair Station under Work Order No. JJC-19111.

Signature of Authorized Representative


F.A.A. Repair Station #GBBR155E

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	→				

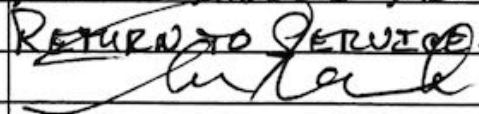
DATE: 03/15/2020

HOBBS/TT: UNKNOWN

TSMOH: 0

THIS ENGINE MODEL IO-550-N SN 686839 MAJOR OVERHAULED THIS DATE IN ACCORDANCE WITH TCM OVERHAUL MANUAL PUBLICATION M-16 CHANGE 2 DATE JULY 2015. ENGINE WAS DISASSEMBLED, CLEANED, AND VISUALLY INSPECTED. THE FOLLOWING ITEMS WERE SENT OUT FOR INSPECTION, AND CERTIFICATION: CRANKCASE, OIL COOLER, CRANKSHAFT, CONNECTING RODS, CAMSHAFT, LIFTERS, ROCKER ARMS, STARTER ADAPTER PIECES, AND ALL INTERNAL STEEL. CYLINDERS ARE NEW TCM KITS PN 658815A2. SEE TAGS ON ALL CERTIFIED ITEMS. ENGINE WAS ASSEMBLED WITH THE FOLLOWING NEW PARTS: MAIN AND ROD BEARINGS, ROD BOLTS AND NUTS, CRANK GEAR BOLTS, CAM GEAR BOLTS, ALL INTERNAL HARDWARE, OIL PRESSURE RELIEF SPRING, OIL TEMP CONTROL VALVE, OIL COLLAR, PISTON PINS, ALL GASKETS AND SEAL. STARTER ADAPTER WAS REASSEMBLED WITH NEW BEARINGS, SPRING CLUTCH, AND OTHER WEAR ITEMS. ENGINE IS APPROVED FOR RETURN TO SERVICE PENDING INSTALLATION AND TEST RUN. SEE AD LIST FOR AD COMPLIANCE.....END.


 BRUCE MCWHORTER A&P 3690658

4/15/2020	HOBBS 1750.1	ETT 1750.1	T&O 0.0	INSTALLED
				ENGINE IN N385C \$R22 S/N 0433
				IN ACCORDANCE WITH CONTINENTAL
				M.M. AND CIRRUS M.M. SERVICED
				WITH PHELIPS 20W-50 M OIL, INSTALLED
				OH'D MAGNETOS P/N 10-500556-1 S/N'S
				DOZKA016 & DOZKA012, ENGINE SPOCK
				MOUNTS REPLACED, REPLACE IGNITION
				HARNES AND SPARK PLUGS, ENGINE
				GROUND RUN AND OPS. CK GOOD. THIS
				ENGINE HAS BEEN INSPECTED FOR
				A 100 HR INSPECTION WITH REFERENCE
				TO CONTINENTAL M.M. AND FAR 43
				APP. "D" AND IS AIRWORTHY FOR
				RETURN TO SERVICE.
				 A&P3694082.

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

engine

Company HEART OF THE WEST AIRCRAFT ENGINES, INC.
Manufacturer TELEDYNE CONTINENTAL MOTORS
Model IO-550 SERIES IO-550-N
Location
Serial # 686839
TSMOH "0"
Total Time

*86-13-04 R3	02/24/88	CYLINDER BARREL CRACKING/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #	Date		Next Due
Signature			Cert. #
87-14-02	10/05/87	STARTER ADAPTER SHAFTS/	
Method of Compliance	NA NOT EQUIPPED		
SB #	Date		Next Due
Signature			Cert. #
88-03-06	04/15/88	TCM PRO-TECH ENGINE OIL FILTER/	
Method of Compliance	NA NOT EQUIPPED		
SB #	Date		Next Due
Signature			Cert. #
88-17-03	08/10/88	STARTER ADAPTER DRIVE SHAFT/	
Method of Compliance	NA BY ENGINE MODEL		
SB #	Date		Next Due
Signature			Cert. #
91-19-03	09/29/91	CHAMPION ENGINE OIL FILTER/	
Method of Compliance	NA NOT EQUIPPED		
SB #	Date		Next Due
Signature			Cert. #
93-08-17	08/23/93	OIL PICK-UP TUBE INSPECTION/	
Method of Compliance	NA BY ENGINE MODEL		
SB #	Date		Next Due
Signature			Cert. #
93-10-02	08/12/93	CYLINDER VALVE RETAINER KEY/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #	Date		Next Due
Signature			Cert. #
93-16-15	12/14/93	FUEL PUMP DRIVE SHAFT COUPLING/	
Method of Compliance	NA BY ENGINE MODEL		
SB #	Date		Next Due
Signature			Cert. #

Prepared by

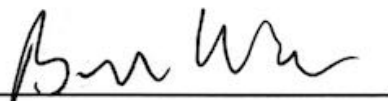
Date

3/15/2020

Airworthiness Directive Compliance Record

*94-09-07	07/05/94	SUPERSEDED BY AD 95-03-14/	
Method of Compliance	SUPERSEDED		
SB #	Date		Next Due
Signature			Cert. #
94-14-12	06/23/94	SUPERSEDED BY AD 95-21-15/	
Method of Compliance	SUPERSEDED		
SB #	Date		Next Due
Signature			Cert. #
*95-03-14	03/13/95	INSPECTION OF ENGINE MOUNT BRACKETS/	
Method of Compliance	NA BY ENGINE MODEL		
SB #	Date		Next Due
Signature			Cert. #
95-21-15	11/28/95	ENGINE TEARDOWN AND INSPECTION/	
Method of Compliance	NA BY ENGINE MODEL		
SB #	Date		Next Due
Signature			Cert. #
*96-12-22	07/31/96	OIL FILTER ADAPTER ASSEMBLY NUT/	
Method of Compliance	NA NOT EQUIPPED		
SB #	Date		Next Due
Signature			Cert. #
98-01-08	12/23/97	EXHAUST ROLLER BEARING ROCKER ARMS/	
Method of Compliance	NA NOT EQUIPPED		
SB #	Date		Next Due
Signature			Cert. #
99-09-17	04/22/99	SUPERSEDED BY AD 99-19-01/	
Method of Compliance	SUPERSEDED		
SB #	Date		Next Due
Signature			Cert. #
99-19-01	09/30/99	CRANKSHAFT CHEEK CRACKS/	
Method of Compliance	NA BY ENGINE SN		
SB #	Date		Next Due
Signature			Cert. #
00-08-51	04/28/00	SUPERSEDED BY AD 2000-23-21/	
Method of Compliance	SUPERSEDED		
SB #	Date		Next Due
Signature			Cert. #
00-23-21	12/12/00	CRANKSHAFT CONNECTING ROD JOURNAL/	
Method of Compliance	NA BY ENGINE SN		
SB #	Date		Next Due
Signature			Cert. #

Prepared by



Date

3/15/2020

Airworthiness Directive Compliance Record

04-08-10	05/05/04	ENGINE COMPONENTS, INC. STC'D CYLINDERS/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #		Date	Next Due
Signature			Cert. #
07-04-19	03/12/07	REVISED BY AD 2007-04-19 R1/	
Method of Compliance	REVISED		
SB #		Date	Next Due
Signature			Cert. #
07-04-19 R1	05/07/07	SUPERIOR AIR PARTS, INC. CAST CYLINDER ASSEMBLIES/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #		Date	Next Due
Signature			Cert. #
07-16-10	08/23/07	TURBOCHARGER COMPRESSOR ROTOR/	
Method of Compliance	NA BY ENGINE MODEL		
SB #		Date	Next Due
Signature			Cert. #
*09-16-03	09/09/09	SUPERSEDED BY AD 2014-05-29/	
Method of Compliance	SUPERSEDED		
SB #		Date	Next Due
Signature			Cert. #
*09-19-07	10/07/09	EQ3 CYLINDER HEAD ASSEMBLIES/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #		Date	Next Due
Signature			Cert. #
09-24-51	11/16/09	SUPERSEDED BY AD 2009-24-52/	
Method of Compliance	SUPERSEDED		
SB #		Date	Next Due
Signature			Cert. #
09-24-52	11/18/09	SUPERSEDED BY AD 2010-11-04/	
Method of Compliance	SUPERSEDED		
SB #		Date	Next Due
Signature			Cert. #
10-11-04	06/16/10	HYDRAULIC VALVE LIFTERS/	
Method of Compliance	NA NOT EQUIPPED		
SB #		Date	Next Due
Signature			Cert. #
11-25-51	12/28/11	SUPERSEDED BY AD 2012-10-13/	
Method of Compliance	SUPERSEDED		
SB #		Date	Next Due
Signature			Cert. #

Prepared by

Bum

Date

3/15/2020

Airworthiness Directive Compliance Record

12-03-06	02/24/12	AFS FUEL SERVO DIAPHRAGM/	
Method of Compliance	NA NOT EQUIPPED		
SB #		Date	Next Due
Signature			Cert. #
<hr/>			
12-10-13	06/08/12	STARTER ADAPTER SHAFT GEAR/	
Method of Compliance	NA NOT EQUIPPED		
SB #		Date	Next Due
Signature			Cert. #
<hr/>			
*14-05-29	04/25/14	SUPERIOR AIR PARTS INVESTMENT CAST CYLINDER ASSEMBLIES/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #		Date	Next Due
Signature			Cert. #
<hr/>			
16-16-12	09/15/16	ECI CLASS 71 OR CLASS 76 CYLINDER ASSEMBLY FAILURES/	
Method of Compliance	NA BY INSTALLED CYLINDERS		
SB #		Date	Next Due
Signature			Cert. #

Prepared by Bur M

Date 3/15/202

Airworthiness Directive Compliance Record

AIRCRAFT RECORDS - DO NOT DESTROY

engine

Company SOUTHWEST TEXAS AVIATION INC.
Manufacturer ~~TELEDYNE CONTINENTAL MOTORS~~
Model IO-550N (7)
Location
Serial # 686839
TSMOH
Total Time 160.2

00-08-51 04/28/00 SUPERSEDED BY AD 2000-23-21/
Method of Compliance SUPERSEDED
SB #
Signature *Zunee Jalp* Date 7-1-04 HOBBS: 160.2 Next Due
Cert. # 455827575 IA

00-23-21 12/12/00 CRANKSHAFT CONNECTING ROD JOURNAL/
Method of Compliance N/A BY ENGINE S/N
SB #
Signature *Zunee Jalp* Date 7-1-04 HOBBS: 160.2 Next Due
Cert. # 455827575 IA

04-08-10 05/05/04 ENGINE COMPONENTS, INC. STC'D CYLINDERS/
Method of Compliance N/A, ECI CYLINDERS NOT INSTALLED
SB #
Signature *Zunee Jalp* Date 7-1-04 HOBBS: 160.2 Next Due
Cert. # 455827575 IA

Prepared by

Zunee Jalp

Date

7-1-04