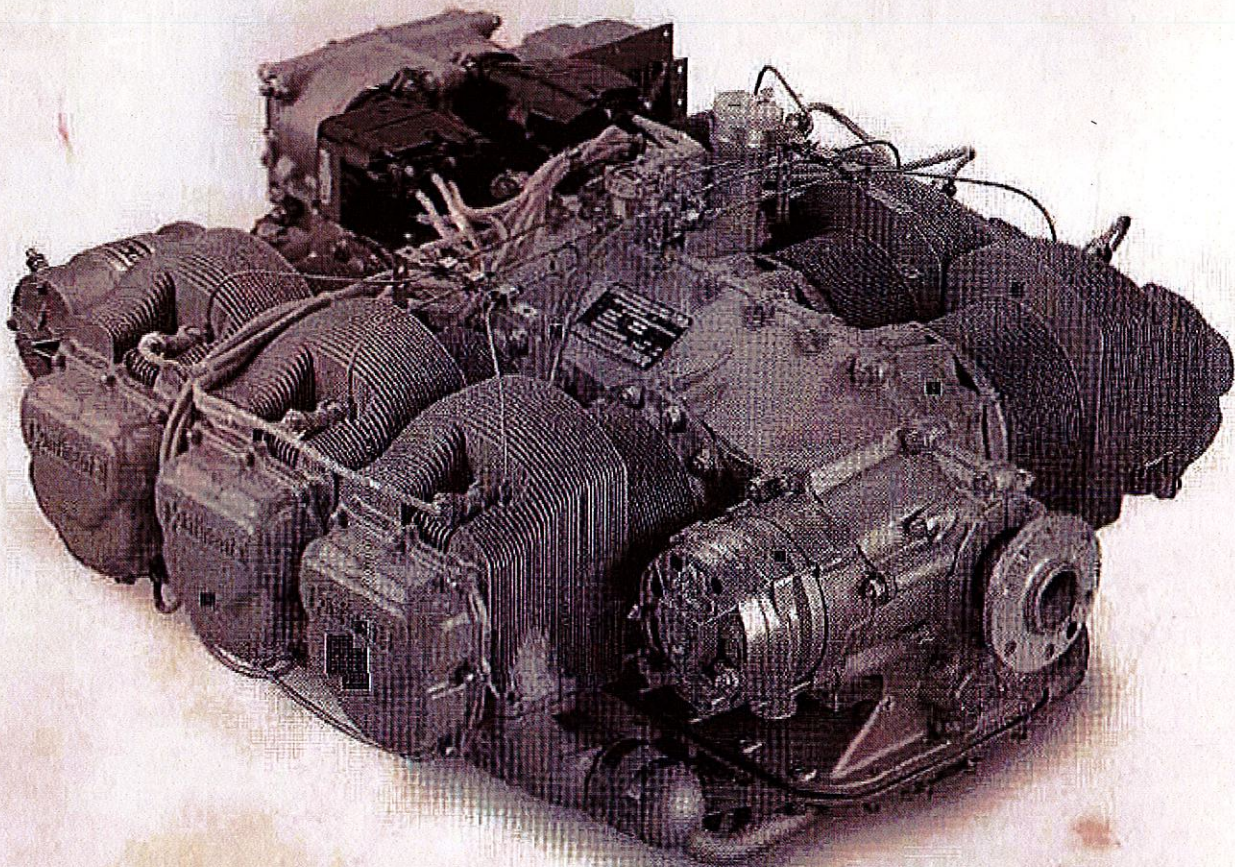


ENGINE LOG BOOK



Teledyne Continental Motors, Inc.



Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

Engine Component Information Sheet

Printed: 06/01/2003

Serial: 357675
Spec: I0360ES6B
New/Rebuilt: (NEW)

Assembled: 05/29/2003
Shipped:
Packed: 05/31/2003

Customer Name: TELEDYNE MATTITUCK SERVIC

Shipping Address:

Component	Serial Number
CAMSHAFT	Z03CA267
CRANKSHAFT	N03CA142
CRANKCASE	S03DA010
CONNROD	AE03CA768
CONNROD	AE03EA386
CONNROD	AE03EA388
CONNROD	AE03EA397
CONNROD	AE03EA402
CONNROD	AE03EA407
L MAGNETO	03030889
R MAGNETO	03030890
FUEL PUMP	B03EA334
MANIFOLD VALVE	C03EA329 P

Component	Serial Number
NOZZLE SIZE	10K
METERING UNIT	A03EA294
STARTER	02 343 0008
ALTERNATOR	D031957
OIL COOLER	B03-2152-73

Pack Inspection Stamp _____

All of the information provided herein is subject to verification by the user. Teledyne Continental Motors, Inc. makes no representation or warranty concerning the accuracy, completeness of the information and assumes no responsibility with respect thereto.

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
Abbeville Industrial Park
Suite 159
Abbeville, AL 36310
Printed: 08/31/2003

This engine model 3560B56, Serial No. 357675 was manufactured on 08/31/2003
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.

(45)

TELEDYNE CONTINENTAL MOTORS
A TELEDYNE TECHNOLOGIES COMPANY
CERTIFICATION CERTIFICATE NO. 586

Aircraft Engine Test Verification

This document verifies that the engine model listed below has satisfactorily completed all testing listed below in accordance with TCM standard engine testing specifications as approved by the FAA.

Engine Model EO360ES6B

Engine Serial Number 357675

Testing Completed

Standard Acceptance Test:

Date of Completion 5-30-69 Test Operator 29769



Form No 98344

Teledyne Continental Motors, Inc.
A Teledyne Technologies Company

TELEDYNE CONTINENTAL MOTORS

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

FACTORY SETTINGS:

RPM 2890 OIL TEMP 199 OIL PRESSURE 53.8
OIL PRESSURE PICK UP POINT: MAIN OIL GALLERY
BETWEEN #2 AND #4 CYLINDERS

655305

Now Engine at 306 Hobbs

Date	Total Time	Time Since Last Overhaul
Hrs	Mins	Hrs Mins

Engine Service and Maintenance Record

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

Address: 525 Airport Rd. Lititz, Pennsylvania 17543
 LOG ID: 431 13-June-2003 WO# 3679 REF# 3679 HOBBS 304.8
 NSN: 11-10-100-1042 CIRRUS SR20

Pg 1 / 1

ENGINE LOG -
 COMPLETED AN ANNUAL INSPECTION I/A A CIRRUS M/M CHECK SHEETS. INSTALLED THIS ENGINE S/N 357675 ON THIS AIRCRAFT S/N 1542. SERVICED ENGINE WITH 9 QTS OF A/S 100 MINERAL. C/W CONTINENTAL SIL 97-3A FUEL SYSTEM SET UP. PERFORMED A GROUND RUN UP AND LEAK CHECK. CHECKED GOOD. ALL AD'S CHECKED THRU 03-10. -END-

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

Signed A&P 19740391A Lawrence P. Marks

6-23-03 1 42 Test Flight. Oil pressure fine rpm fine, mag check OK, CHT 400-440 on climb out.
 John R. James Jr 342460168

8-17-03 27 - oil Δ, CH481085 filter, 8 qt Aeroshell 100 mineral safety wire, test run, no leaks no problems oil sample taken
 John R. James Jr 342460168

9-20-03 51 30 oil Δ CH481085 filter, 7.5 qts Exxon Elite 20W-50 safety wire filter, test run - no leaks oil sample sent
 John R. James Jr 342460168

2-24-03 95 - Removed cleaned gapped & retorted all spark plugs, copper & lower each cylinder. All plugs inspected OK IAW Cirrus Main. Manual 74-26

Removed inspected cleaned and replaced all 12 fuel injector nozzles. All inspected & leak tested on ground using boost pump. No leaks noted.

John R. James Jr
 342460168

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	→				
2-27-03	95	00			① test taxi new brakes. Taxied 1500' 1700 rpm 10 mph per 32-42 Brakes worked fine and held for runup ② observed fuel system for leaks after injectors cleaned - no leaks found ③ Changed Oil & Filter CH48108 safety wired filter checked for leaks after test run No leaks noted 6 qts Exxon 20W-50 Sent Oil sample for analysis ④ ✓ Battery level, ✓ Brake fluid level ok lube throttle & mixture cables 342-46-0168 John Jones Jr

Airways, Inc. 520 Airport Rd Lititz, Pennsylvania 17543
 LOG ID# 929 26-May-2004 WO# 4245 REF# 4245 HOBBS 430.7
 N811WM S/N 1042 Cirrus SR20 TSNEW 125.9

Pg 1/1

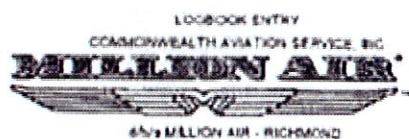
-ENGINE LOG-
 COMPLETED AN ANNUAL INSPECTION I/A/W THE CIRRUS M/M CHECK SHEETS. COMPRESSION CHECKS: #1 74/80, #2 71/80, #3 75/80, #4 75/80, #5 74/80, #6 73/80. DRAINED THE ENGINE OIL AND REPLACED FILTER, SERVICED WITH 8 QTS OF EXXON ELITE 20W50. CUT OPEN FILTER AND INSPECTED, REMOVED OIL SCREEN CLEANED AND INSPECTED, NOTHING NOTED AT THIS TIME. PERFORMED AN OIL ANALYSIS. MEGGED THE IGNITION HARNESS, CHECKED MAG TIMING, C/W CONTINENTAL SIL 97-3B ENGINE FUEL SYSTEM SET UP, GROUND RUN AND LEAK CHECKED GOOD. WASHED ENGINE. ALL AD'S CHECKED THRU 04-10.-END-

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I/A/W AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

William A. Wright
 Signed IA 171425658 william s. wright

9-2-04	163	.5 hrs			changed oil & filter. Champion CH48108 safety wired, leaks checked & test run up No leaks. Oil sample sent for analysis 7 qts Exxon Elite 20W50 ✓ Battery, brake fluid, inspect all lube throttle & mixture cables 342-46-0168 John Jones Jr
--------	-----	--------	--	--	--

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 →					



MANUFACTURE/TCM

Model	IO-360 ES4	Date	3/21/2006
S/N	257675	W.D.	MO60306
Reg #	N811AM	ACTT	590.1
		TTE	590.1

ENGINE LOGBOOK INSERT

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.

The Teledyne Continental IO-360 ES4B S/N 257675 engine was inspected IAW current maintenance rules of the Federal Aviation Regulations for a 100 hour inspection using the Cessna Design SR22 inspection guide and is approved for return to service.

Engine compression results

#1 80/77
#2 80/76
#3 80/78
#4 80/78
#5 80/78
#6 80/78

Removed all fuel injection nozzles and cleaned as required. Reinstalled nozzles and torqued IAW TCM IO-360 MM.

Signed

[Signature]

Print


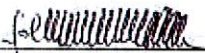
John T. Gaudier

Certificate #

AP22677652A

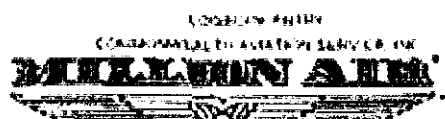
for
COMMONWEALTH AVIATION SERVICE, INC.

4-27-2006	598.4 Hobbs 292.4 since new	① Removed all 12 spark plugs and replaced with new Unison URM 385 fine wire plugs which were gapped & checked. Engine test run smoothly. Magcheck OK EGT/KHT OK
		② Changed oil and filter. Champion CH4810B 7 qt Exxon Elite 20W50. Safety wired filter. Oil sample taken. Test run No leaks
9-30-06	620.3 Hobbs 314 Since New	oil change iaw SR 20 Manual. Tenpest 4810B Filter 7qt Aeroshell 100 + 1002 ASL Vanguard Safety wired & test run. No leaks. Oil sample collected.

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 →					
LOGBOOK ENTRY COMMONWEALTH AVIATION SERVICE, INC.  68 1/2 MILLION AIR - RICHMOND					
MANUFACTURER TCM		Reg #		N811WM	
Model ID-350-E56		Date		2/23/2007	
S/N 357675		W.O.		M070138	
TTE 642.3		ACTT		642.3 TAT	
		HOBBS		642.3	
ENGINE LOGBOOK INSERT					
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.					
The Teledyne Continental IO-360-E5 S/N 357675 engine was inspected VAW current maintenance rules of the Federal Aviation Regulations for a inspection using the Cirrus Design SR20 inspection guide and is approved for return to service.					
Complied with engine cylinder compression check. Results as follows: # 1 - 76/80 # 2 - 73/80 # 3 - 78/80 # 4 - 74/80 # 5 - 78/80 # 6 - 71/80					
Removed fuel injectors, cleaned and reinstalled					
Adjusted prop governor. Found control rod end at prop governor worn. Removed defective rod end and replaced with a new rod end P/N 11314-002. Adjusted and rigged prop governor and controls as required to reach take off RPM.					
Removed alternator and alternator mount for evaluation of possible crack at alt alternator mount stud. Performed visible penetrant inspection. No cracks indicated. Reinstalled alternator mount and alternator VAW Cirrus SR20 MM.					
Signed:  Print: John T. Gardner Certificate # AP22641785JA for COMMONWEALTH AVIATION SERVICE, INC.					
3-25-07	647.9 Hobb	341.9 since new			
Oil change IAW Cirrus Maint. Manual Champion 48108 Filter, 7qt Aerashell 100 12 oz camguard additive Oil sent for analysis to Blackstone Lab Filter cut-ng metal no foreign body Safety wired fast run. No leaks normal pressure Battery water checked, Brake fluid checked o. John R. Janer Jr 342 460168					

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					
2-3-2008	676.3	11			Replaced Battery with new Concorde Battery Model RG 24-15M Serial No. 40207233
	370.3	2			Torqued Terminal to 70 in lb igw Concorde
					John R Jones Jr. 342460168

40207233



4000 MILLION AIR - RICHMOND

CRV VVWRSYV

MANUFACTURED BY	Reg #	NR11657
Model	Date	5/12/2008
SN	Alt	40207233
TEL	Alt	677.2
	Flight hours	677.2

ENGINE LOGBOOK HISTORY

The aircraft engine component inspection was requested and completed in accordance with current Federal Aviation Regulations and was found acceptable for return to service. Maintenance details of the repair are on file at this agency.

The Continental IO-360 P/N 014 357671 engine was inspected in accordance with the current maintenance rules of the Federal Aviation Regulations. The engine was inspected using the Cessna Design R100 current inspection guide and is approved for return to service. The following items were noted and required engine inspection to be noted.

Complied with engine cylinder run-in/overhaul. Results as follows:

- #1 - 75/90
- #2 - 75/80
- #3 - 75/80
- #4 - 75/80
- #5 - 75/80
- #6 - 75/80

After engine is operating temperature, removed engine cooling. Cleared engine oil and was replaced by engine oil (customer supplied) 10W-30. Replaced oil filter and inspected for proper contamination. Then removed and installed a new oil filter (customer supplied) 10W-30. Replaced the engine with 8 quarts of customer supplied engine oil 10W-30. Then engine. Installed engine cooling. Oil and leak checks good.

Removed and inspected piston of cylinders. Cleared and inspected all injectors. Reinstalled engine with new gaskets, washers and o-rings. Reinstalled 10W-30 engine oil.

Removed right and left magnetos for overhaul. Installed 2 new rotor magnets and performed magnets to engine timing at 24 degrees BTDC. Reinstalled Cessna 5400 MAG and TCM IO-360-LS ECU. Left Magnet P/N 014 357671. Right Magnet P/N 014 357672. Left Magnet P/N 014 357673. Right Magnet P/N 014 357674.

Copy 1

Copy 2

Continental Aviation Service Inc.
F.A.A. Approved Repair Station No. VVWRSYV

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.	

Engine Model: **10-360-ES** Engine S/N: **357675** Engine Time: **3867 HRS**

Teledyne Mattituck Services

FAA Repair Station T10R307Y
410 Airway Drive
Mattituck, New York 11952

This engine was disassembled, cleaned, inspected and repaired as necessary. Parts replaced per the supplied parts list. Engine reassembled and test cell run per Teledyne Mattituck Special Process SP1012C.

Complied with the following Service Bulletins: SB96-11B, SB08-B, SB08-9, MSB 94-8C, SB 07-1, SB06-5, SIL99-2A, SB 96-75, SLD97-4C, SIL99-1, SB 97-6, SB05B, MSB 96-10, SIL95-5, SIL93-15, M93-8, M93-4, M97-5, M97-23, M74-4

Complied with the following AD Notes: 97-2617 TCM ENGINE- CRANKSHAFT INSP, VAR AND ULTRASONIC

This engine is airworthy and returned to service with respect to the work performed.

Work Order:

32970

Authorized Signature:

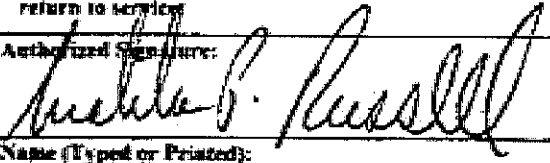
Michael P. Russell 10-9-2008

Form R5-061 Rev (Aug 2004)

Engine Component Serial Number Summary:

ITEM	Serial Number	Item	Serial Number
Camshaft	Z03CA267	Left Magneto	08011422
Crankshaft	N03CA142	Right Magneto	08011435
Crankcase	S03DA010	Starter	023430008
Connecting Rod	AE03EA388	Manifold Valve	C03EA329
Connecting Rod	AE03EA402	Fuel Pump	B03EA334
Connecting Rod	AE03EA397	Measuring Unit	A03EA294
Connecting Rod	AE03CA768	Oil Cooler	B03215273
Connecting Rod	AE03EA386	Alternator	H260221
Connecting Rod	AE03EA407	Turbocharger	N/A
Cylinder-1	TMS SN 89306	Turbocharger	N/A
Cylinder-2	TMS SN 89307	Turbo Controller	N/A
Cylinder-3	TMS SN 89308	Turbo Controller	N/A
Cylinder-4	TMS SN 89309	Overboost Valve	N/A
Cylinder-5	TMS SN 89310	Wastegate	N/A
Cylinder-6	TMS SN 89311		

Form R5-062 Rev (July 2008)

1. Approving National Aviation Authority/Country: UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 1009081	
4. Organization Name and Address: Teledyne Mattituck Services, Inc. Airway Drive Mattituck NY 11952 REPAIR STATION CERTIFICATE NO. T10R507Y						5. Work Order/Contract/Invoice Number: 32970	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Teledyne Continental Motors	IO-360-ES	TBV by installer	1	357675	Repaired	
13. Remarks: Engine disassembled, cleaned, inspected and repaired as necessary and reassembled on October 9, 2008. All applicable Airworthiness Directives thru biweekly issue 2008-20 are in compliance. Complied with AD. 97-26-17 Crankshaft ultrasonic inspection. Engine test run per Teledyne Mattituck Process Specification SP1012C and found to be operating to specifications. All work done in accordance with Teledyne Continental Motors, Inc. Overhaul Manual X30594A, 6/92. This engine is airworthy and approved for return to service with respect to the work performed. Total Engine Time: 386.7 Hrs. Time since Repair: 0. Hrs.							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 11.				19. <input checked="" 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:		16. Approval/Authorization No.:		20. Authorized Signature: 		21. Approval/Certificate No.: T10R507Y	
17. Name (Typed or Printed):		18. Date:		22. Name (Typed or Printed): Mahlon P. Russell		23. Date (m/d/yy): October 09, 2008	
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.							

INVOICE

Teledyne Mattituck Services, Inc.
Airway Drive
Mattituck, NY 11952
(631) 298-8330

Inv # : 00000

Date : 10/13/2008

0000 Flight Dynamics Inc.
900 Airport Road
Suite #7
West Chester

PA 19380

Flight Dynamics Inc.
900 Airport Road
Suite #7
West Chester

PA 19380

P O Date : 10/13/2008

Due Date : ASAP

Ship Via :

Qty	Part #	Description
1	646543A1	Gasket Set -Major Overhaul
1	653415	Gasket
1	641533	Seal - Tach Drive
1	530917	Seal
1	MS9144-01	Gasket - MS9144-01/AMS7283
10	642917-16	Hose 1.75 id x 2.50
1	646597A1	Bearing Set
12	642338	Bearing - Connecting Rod
1	MS35756-8	Key .125 x .625
12	654487	Nut - Connecting Rod
12	655959	Bolt - Connecting Rod
8	639198	Bushing
4	639580	Bushing - Crankshaft
8	629004	Ring-Ctw Plate Retaining
8	653143	Plate - Cwt Pin Retainer
2	643626-110	Pin - crkshsft Cwt
2	643626-111	Pin - Crkshsft Cwt
6	649225	Ring Set
4	36025	Washer
1	CH48108-1	Oil Filter
1	ES48108	Oil Filter
1	631928	Hose
24	646605	Nut - Plain
24	501867	Washer
6	633958-2	Seal
4	655269	Bushing - Magneto Dr
4	654584	Bolt - .3125-24
4	654586	Screw - Hex .31-24 x .36
3	653906	Lifter Asm - Hydraulic
6	538684	Bushing - Piston Pin
1	641346	Fastener - Baffle
1	642892	Gasket -Oil Filler 2.28 od
1	632983	Shoe
2	ANS00-10-16	Screw #10-24 x 1.00
4	537629	Screw - Plain .25-20 x .69
1	654732	Gasket - Throttle Body

Total Parts List
TCN 10-360-ES-68
SN 357675
WO# 32970



Teledyne Continental Motors, Inc.
Teledyne Mattituck Services
410 Airway Drive
Mattituck, NY 11952

ENGINE REPAIR OR OVERHAUL WORK ORDER

FAA REPAIR STATION: T10R507Y

DATE: 9-OCT-08	WORK ORDER: 32970
ENGINE MODEL: 10 360-ES	ENGINE SERIAL NUMBER: 357675
DESCRIPTION OF WORK TO BE ACCOMPLISHED:	CORRECTIVE ACTION TAKEN
1. PERFORM PROP STRIKE INSPECTION	COMPLIED WITH SERVICE BULLETIN 96-11A
2. COMPLY WITH APPLICABLE SERVICE BULLETINS	COMPLIED WITH, SEE LOG ENTRY AND SERVICE BULLETIN LIST
3. COMPLY WITH APPLICABLE AIRWORTHINESS DIRECTIVES	COMPLIED WITH, SEE LOG ENTRY AND AIRWORTHINESS DIRECTIVE LIST
4. REPLACE PARTS AS NECESSARY	SEE PARTS LIST
5.	
6.	
7.	

AUTHORIZED SIGNATURE

Michael P. Russell

DATE 9-OCT-08W/O NO. 32970CUST. FLT-DYNAMFG. TCM

LOG OF AIRCRAFT ENGINE TEST

TELEDYNE MATTITUCK SERVICES Inc.

Mattituck, N.Y., U.S.A

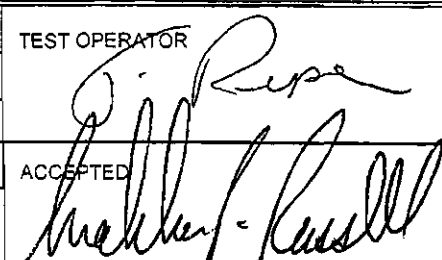
UNITED STATES FEDERAL AVIATION ADMINISTRATION

APPROVED REPAIR STATION NO. T10R507Y

MM () SS
MH () MISCX
()Engine Total Time 386.7 HRS

Model	<u>10-360-ES</u>	Starter Serial	<u>02-343008</u>	Manifold Valve	<u>VISUAL INSP CO3EA329</u>
Serial No.	<u>357675</u>	Gen/Alt Model	<u>VISUAL INSP</u>	Nozzle Ident	<u>HIS FLOWED</u>
S.L. Rated H.P. @ R.P.M.	<u>210 @ 2800</u>	Gen/Alt Serial	<u>H260221</u>	Mag. Model	<u>VISUAL INSP</u>
Fuel/Octane	<u>AUGAS 100</u>	Carb. Model	<u>N/A</u>	R.H. Mag Serial	<u>08011435</u>
Fuel Pump Model	<u>VISUAL INSP</u>	Carb. Serial	<u>N/A</u>	L.H. Mag Serial	<u>08011422</u>
Fuel Pump Serial	<u>BO3EA334</u>	Fuel Inj. Model	<u>VISUAL INSP</u>	Ign Timing	<u>24</u>
Starter Model	<u>VISUAL INSP</u>	Fuel Inj. Serial	<u>A03EA294</u>	Spark Plugs	<u>HIS</u>

TIME		POWER		OIL SYSTEM			FUEL SYSTEM			ATMOSPHERE					CYLINDER HEAD TEMP								EGT	
Read- ing	Min.	RPM	M.P.	Press. PSI	Temp °F	Cons lbs/hr	Flow gph/gph	Nozzle Press	Pump Press	Room °F	Inlet °F	Turbo Press	Case Press	Corr. Bar.	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	#/ °F	
1	5	1000	WARM - UP																					
2	10	1200	12	60 54	135	N/A	13	N/A	10.8	72	N/A	N/A	N/A		29.9	210	223	228	248	218	175	N/A	N/A	870
3	10	1500	15	60 56	147		19		13.2	73					29.9	215	248	243	262	235	186			890
4	10	1800	18	62 56	146		31		16.4	76					29.9	223	257	248	273	243	195			935
5	10	2000	20	58 52	152		43		18.8	78					29.9	226	260	252	285	256	200			1000
6	10	2200	22	56 50	155		55		20.0	79					29.9	228	274	262	294	266	205			1010
7	10	2400	24	52 50	162		72		24.0	81					29.9	244	285	278	314	278	211			1060
8	15	2800	27	54 51	173		108		27.0	83					29.9	248	300	292	325	287	226			1120
9	3	1000	COOL DOWN RUN																					
N/A																								

COMPRESSION TEST				<u>78</u>	<u>76</u>	<u>77</u>	<u>75</u>	<u>74</u>	<u>76</u>	<u>N/A</u>	<u>N/A</u>	ENGINE PERFORMANCE TEST				TEST OPERATOR							
				80	80	80	80	80	80	80	80	Both Mags R.P.M. <u>1800</u>				ACCEPTED 							
CYLINDER TYPE				Chrome	Steel	Nitride	Cerminil	TEST CLUB NO. <u>#5 WOOD</u>				R.H. <u>1720</u> L.H. <u>1720</u>											
					*							Drop R.H. <u>80</u> L.H. <u>80</u>											
OIL FILTER/SCREEN INSP OK <u>✓</u>								Idle Speed <u>✓</u>				Idle Mixture <u>✓</u>				Fuel Cut Off <u>✓</u>							

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 →					
11/20/08	693.1		HOBBS		REINSTALLED THIS ENGINE AND PROPELLER IN N811WM, CIRRUS SR20, S/N 1042 AFTER STATIC DROP STRIKE INSPECTION. ENGINE WAS NOT RUNNING. SERVICED W/ AEROSHELL 80 MINERAL OIL. FUEL INSPECTION SYSTEM CALIBRATED PER TEM SID 97-3 E. RUN-UP AND LEAK CHECK SATISFACTORY. RETURNED TO SERVICE WITH RESPECT TO WORK PERFORMED. 198480464
	387.1		SNEW		



LOGBOOK ENTRY
COMMONWEALTH AVIATION SERVICE, INC.
d/b/a MILLION AIR - RICHMOND
Cirrus Design Service Center
CRS VXWR051W

Manufacturer:	TCM	Date:	4/16/2009
Model:	IO-360-ES6	W.O.:	M090223
S/N:	357675	Reg #:	N811WM
TTE:	696.2	ACTT:	696.2
		Hobbs:	696.2

ENGINE LOGBOOK INSERT

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 for the work performed. Pertinent details of this work order are on file at this repair station.

The Teledyne Continental IO-360-ES6 S/N: 357675 engine was inspected referencing the current maintenance rules of the Federal Aviation Regulations for a 100 hour inspection using the Cirrus Design SR20 current inspection guide and is approved for return to service. The following items were serviced, repaired and/or inspected as noted.

Complied with engine cylinder compression check. Results as follows:

- #1 - 78/80
- #2 - 78/80
- #3 - 78/80
- #4 - 78/80
- #5 - 77/80
- #6 - 77/80

Signed:

Print:

John T. Gardner
John T. Gardner

for
COMMONWEALTH AVIATION SERVICE, INC.
F.A.A. Approved Repair Station No. VXWR051W

[illegible]

Dominion Aviation CRS ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

Date	Total Time		Time Since Last Overhaul		<h2 style="margin: 0;">Engine Service and Maintenance Record</h2> <p style="margin: 0;">Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins</p>
	Hrs.	Min.	Hrs.	Min.	
<div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 100px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">Brought Forward</div> </div>					
<div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <div style="text-align: center;"> <p style="font-size: 0.7em;">LOGBOOK ENTRY</p> <p style="font-size: 0.7em;">COMMONWEALTH AVIATION SERVICE, INC.</p> <p style="font-size: 0.7em;">MILLION AIR - RICHMOND</p> <p style="font-size: 0.7em;">Cirrus Design Service Center</p> <p style="font-size: 0.7em;">CRS VXR051W</p> </div> <div style="font-size: 0.7em;"> <p>Manufacturer: TCM Date: 6/3/2010</p> <p>Model: IO-360-ES6 W.O.: M100418</p> <p>S/N: 357675 Reg #: N811WM</p> <p>TTE: 771.9 Hobbs: 771.9</p> <p style="text-align: right;">ACTT: 771.9</p> </div> </div>					
<p style="font-size: 0.7em;">ENGINE LOGBOOK INSERT</p>					
<p style="font-size: 0.7em;">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 for the work performed. Pertinent details of this work order are on file at this repair station.</p>					
<p style="font-size: 0.7em;">The Teledyne Continental IO-360-ES6 S/N: 357675 engine was inspected referencing the current maintenance rules of the Federal Aviation Regulations for a 100 hour inspection using the Cirrus Design SR20 current inspection guide and is approved for return to service. The following items were serviced, repaired and/or inspected as noted.</p>					
<p style="font-size: 0.7em;">Complied with engine cylinder compression check. Results as follows:</p>					
<p style="font-size: 0.7em;">#1 - 76/80</p>					
<p style="font-size: 0.7em;">#2 - 72/80</p>					
<p style="font-size: 0.7em;">#3 - 78/80</p>					
<p style="font-size: 0.7em;">#4 - 78/80</p>					
<p style="font-size: 0.7em;">#5 - 75/80</p>					
<p style="font-size: 0.7em;">#6 - 77/80</p>					
<p style="font-size: 0.7em;">Drained oil and collected sample for analysis. Removed old oil filter. Cut open oil filter and inspected element. No metallic contamination noted. Installed a new customer supplied quick drain and oil filter P/N: CH48108-1. Serviced the engine with 8 quarts of customer supplied Aeroshell 15W-50 oil and Camguard additive. Ran engine. Ops and leak checks good referencing TCM IO-360 MM.</p>					
<p style="font-size: 0.7em;">Complied with AD 2009-24-52E. Researched engine logbook and verified that no hydraulic valve lifters were replaced after June 19, 2009. No further action required.</p>					
<p style="font-size: 0.7em;">Removed defective engine driven fuel pump and installed serviceable rebuilt fuel pump. Adjusted fuel pressures per TCM SID 97-3. Ops check good referencing TCM IO-360 OHM 72-60. P/N off: 649368-46A4 S/N off: B03EA334 P/N on: R-649368-55A10 S/N on: B10CA081R.</p>					
<p style="font-size: 0.7em;">Adjusted engine mixture as required referencing TCM IO-360 OM 73-10.</p>					
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Signed:</div> </div>					
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Print:</div> <div> <p style="font-size: 0.7em;">John T. Gardner</p> <p style="font-size: 0.7em;">for</p> <p style="font-size: 0.7em;">COMMONWEALTH AVIATION SERVICE, INC.</p> <p style="font-size: 0.7em;">F.A.A. Approved Repair Station No. VXR051W</p> </div> </div>					

Date: 7/13/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 851.8; Total Time: 851.8; Engine - Type: IO-360ES, S/N: 357675, Time: 851.8

-Complied with Cirrus 100 hour inspection checklist.

-Verified AD compliance through bi-weekly issue 2011-13.

-Compressions #1 72/80 #2 66/80 #3 70/80 #4 68/80 #5 72/80 #6 72/80

-Complied with TCM SID 97-3C as required per Cirrus AMM 5-20 (annual checklist).

-Performed post inspection operational check of aircraft systems - all working normal at this time.

-Work performed with reference to Cirrus SR-20 AMM.

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

Steve Miller _____ A&P 2700197IA

Leading Edge Aviation Manassas LLC
9990 Wakeman Dr. Manassas VA 20110
KHEF Manassas Regional Airport.

Date: 7/13/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 851.8; Total Time: 851.8; Engine - Type: IO-360ES, S/N: 357675, Time: 851.8

-Complied with Cirrus 100 hour inspection checklist.

-Verified AD compliance through bi-weekly issue 2011-13.

-Compressions #1 72/80 #2 66/80 #3 70/80 #4 68/80 #5 72/80 #6 72/80 M/O 42/80

-Complied with TCM SID 97-3C as required per Cirrus AMM 5-20 (annual checklist).

-Performed post inspection operational check of aircraft systems - all working normal at this time.

-Work performed with reference to Cirrus SR-20 AMM.

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

Steve Miller _____ A&P 2700197IA
Leading Edge Aviation Manassas LLC
9990 Wakeman Dr. Manassas VA 20110
KHEF Manassas Regional Airport.

Date: 7/14/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 852.5; Total Time: 852.5; Engine - Type: IO-360ES, S/N: 357675, Time: 851.8

-Removed and replaced quick drain plug with original approved drain plug P/N 532431 and approved gasket P/n MS35769 with reference to Cirrus SR-20 AMM.

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

Keston Rattan _____ A&P 3539360
Leading Edge Aviation Manassas LLC
9990 Wakeman Dr. Manassas VA 20110
KHEF Manassas Regional Airport.

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					
4/2/2011	532	.1	839.1		Installed new Concorde Battery Model RG24-15N Serial # _____ torqued to 70 in/lb iaw Concorde. <i>John R. Jones</i> 342460168

Date: 7/13/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 851.8; Total Time: 851.8; Engine - Type: IO-360ES, S/N: 357675, Time: 851.8

-Complied with Cirrus 100 hour inspection checklist.

-Verified AD compliance through bi-weekly issue 2011-13.

-Compressions #1 72/80 #2 66/80 #3 70/80 #4 68/80 #5 72/80 #6 72/80 M/O 42/80

-Complied with TCM SID 97-3C as required per Cirrus AMM 5-20 (annual checklist).

-Performed post inspection operational check of aircraft systems - all working normal at this time.

-Work performed with reference to Cirrus SR-20 AMM.

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

Steve Miller

Steve Miller
 A&P 27001971A
 Leading Edge Aviation Manassas LLC
 9990 Wakeman Dr. Manassas VA 20110
 KHEF Manassas Regional Airport.

Date: 7/14/2011; Aircraft: N811WM; Type: Cirrus; S/N: 1042; Hobbs: 852.5; Total Time: 852.5; Engine - Type: IO-360ES, S/N: 357675, Time: 851.8

-Removed and replaced quick drain plug with original approved drain plug P/N 532431 and approved gasket P/n MS35769 with reference to Cirrus SR-20 AMM.

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

Keston Rattan

Keston Rattan
 A&P 3539360
 Leading Edge Aviation Manassas LLC
 9990 Wakeman Dr. Manassas VA 20110
 KHEF Manassas Regional Airport.

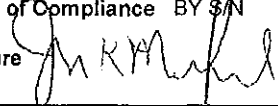
3-6-2012	622	(Hobbs 929)			Oil change. 6.5 qts Aeroshell 100 (50wt) 12 oz CAMGUARD, Champion 48108 Filter Oil sample obtained and sent to Blackstone Labs (Results on file) Old filter opened, filter element inspected. No metal seen. Filter and oil drain plug safety wired. Engine test run. No leaks noted. 342460168 <i>John R. Jones Jr</i>

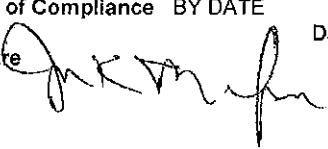
Airworthiness Directive Compliance Record

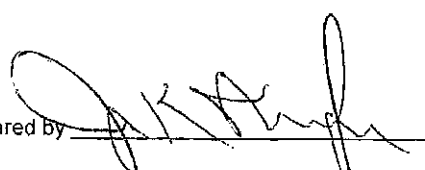
AIRCRAFT RECORDS - DO NOT DESTROY

engine

Company AVIATION RESOURCES, INC. DBA - VIRGINIA AVIATION
Manufacturer TELEDYNE CONTINENTAL MOTORS
Model IO-360-ES
Location Front
Serial # 357675
TSMOH
Total Time 650.4

11-26-07	01/24/12	MAGNETO IMPULSE COUPLING STOP PIN/
Method of Compliance BY S/N	Date 7/25/2012	Next Due N/A
SB #		Cert. # R54R804H
Signature 		

12-03-06	02/24/12	AFS FUEL SERVO DIAPHRAGM/
Method of Compliance BY DATE	Date 7/25/2012	Next Due N/A
SB #		Cert. # R54R804H
Signature 		

Prepared by 

Date 7/25/2012

Please affix to your aircraft/engine logbook.

N#: 811WM
WO#: V12-0313
DATE: 7/25/2012
HOBBS: 957.4
TTSN: 650.4

VA Virginia
Aviation

FAA REPAIR STA.
#RSUR804H
VARS-115

Cleaned and gapped spark plugs. Changed the Oil and Filter serviced with 7 qts Exxon Elite 20-50W and CAMGUARD. Performed compression test #1 73/80 #2 73/80 #3 72/80 #4 72/80 #5 72/80 #6 72/80 Complied with TCM SID 97-3E fuel setup. Removed and replaced induction air filter BA24. C/W AD 2012-03-06 on AFS Fuel Servo Diaphragm which is N/A by Date. C/W AD 2011-26-07 which is N/A by Magneto S/N. I certify that this engine has been inspected in accordance with an annual inspection and the Cirrus SR20 Maintenance Manual Guide and was determined to be in airworthy condition. End

Signature: 

N#: 811WM
WO#: V13-0887
DATE: 7/23/2013
HOBBS: 986.0
TTSN: 679.0

WAVirginia
Aviation

FAA REPAIR STA.
#RSUR804H
VARS-115

Changed oil and filter P/N CH48108-1 serviced with 7 Qts Exxon Elite 20w50 and 1 qt CAMGUARD. Cleaned and gapped sparkplugs. Replaced the induction air filter element BA24. Performed a compression test as per Continental Service Letter Master orifice value was 46 , #1 62/80, #2 68/80, #3 66/80, #4 66/80 #5 68/80, #6 68/80. C/W AD 08-11-18. No leaks noted. Next due 1086.0 hobbs, C/W SA-12-13 concerning Continental Service Bulletin CSB12-1. N/A by Serial Number. Engine Serial Number is 357675. Cleaned connectors and the #1 CHT probe and re-installed in the Cylinder head. I certify that this engine has been inspected i/a/w an Annual Inspection with reference to Cirrus AMM 05-20 and was determined to be in airworthy condition. End.

Signature: 

N#: 811WM
WO#: V12-0313
DATE: 7/25/2012
HOBBS: 957.4



FAA REPAIR STA.
#RSUR804H
VARS-115

TTSN: 650.4

Cleaned and gapped spark plugs. Changed the Oil and Filter serviced with 7 qts Exxon Elite 20-50W and CAMGUARD.

Performed compression test #1 73/80 #2 73/80 #3 72/80 #4 72/80 #5 72/80 #6 72/80 Complied with TCM SID 97-3E fuel setup.

Removed and replaced induction air filter BA24. C/W AD 2012-03-06 on AFS Fuel Servo Diaphragm which is N/A by Date. C/W AD 2011-26-07 which is N/A by Magneto S/N. I certify that this engine has been inspected in accordance with an annual inspection and the Cirrus SR20 Maintenance Manual Guide and was determined to be in airworthy condition. End

Signature: _____

Please affix to your aircraft/engine logbook.



DOMINION AVIATION

Date: 6/27/2014; Aircraft: 811WM; Type: CIRRUS SR-20; S/N: 1042;
Hobbs: 1009.3; Total Time: 1009.3; Engine - Type: IO360 ES(6), S/N: 357675, Time: 1009.3; Prop - Type: , S/N: , Time: 1009.3
ENGINE 702.3

-Removed and replaced oil filter. Inspected filter no defects noted. Leak checked good. Added one quart of oil (Exxon Elite 20W50)

-Removed the spark plugs. Inspected, cleaned, gapped and rotated the spark plugs. Re-installed the spark plugs with new gaskets, pn# M674. Reference : Champion aviation service manual AV6-R.

-Complied with a compression check on all engine cylinders. The readings were as follows: #1 - 72/80, #2 - 74/80, #3 - 71/80, #4 - 76/80, #5 - 76/80, #6 - 74/80.

The maintenance described above was performed and inspected in accordance with current FAA Regulations and is approved for return to service only for the work performed. Ref: 14 CFR Part 43.9. Pertinent details of the repair are on file at this repair station under

Work Order number 25382

Signed _____

Dominion Aviation CRS# ODAR018H
7511 Airfield Drive
Richmond, Virginia 23237
(804) 271-7793

DAS FORM LB-1

Heart of Virginia Aviation
11152 Airpark Rd
Ashland, VA 23005



Phone: 804-798-6500
Fax: 804-798-6544
WO # A14-6678

N811WM

July 10, 2014

Aircraft Hobbs: 1015.3

Aircraft Total Time: 1015.3

Engine TSN: 708.3

Complied with 100 Hour inspection in accordance with FAR 43 Appendix D. Compressions as followed 1/70, 2/74, 3/74, 4/72, 5/78, 6/70. Drained oil and removed filter, no contaminates found. Serviced with 8 quarts of Phillips 20W50 and added new filter. Cleaned, gapped, tested and rotated spark plugs. I certify this engine has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition.

Daniel Mcsherry AP3110300IA

11-24-14

1068.7 Hobbs

Engine TSN:

761.7

Changed Oil 7 qts Phillips 20W50XC
New Tempest AA48108 Oil Filter
installed. Old Filter internally
inspected checked OK-

Scott Rogn

A4P244784714

End

ENGINE MODEL:
IO-360-ES 6B
ENGINE S/N: 357675
REG. NO: N811WM
WORK ORDER:
3993-07-2015

ADVANCED Advanced Lancaster LP

530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 7/29/2015
A/C TSN: 1119.2
ENG TT: 813.2
HOBBS: 1119.2

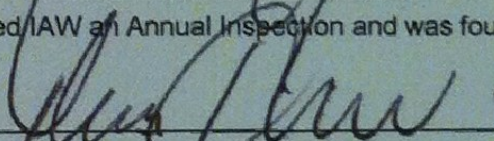
Engine Entries

Cirrus Engine Annual Inspection completed using the Cirrus AMM check list ch. 5-20. Compression check (x/80) 1: 64 2: 62 3: 54 4: 60 5: 64 6: 68. MO 44. Drained and sampled the oil, removed and inspected the oil filter. Installed a new oil filter and serviced the engine with 7 quarts of Phillips XC 20W-50. Cleaned, gapped and tested the spark plugs. Cleaned the fuel injector nozzles. Checked the mag timing. Final run up/leak check good. All Ad's current thru 2015-15.... AD 2012-03-06 Avstar Diaphragms, N/A, not installed.... AD 2011-26-07 Slick Mags. N/A by S/N.... AD 2010-11-04 Hyd Lifters, N/A by P/N.... AD 2000-23-21 Crank Shaft, N/A by manufacture date.... AD 1997-26-17 Crank Shaft, PCW at Hobbs: 692.7, ETT: 386.7.... Removed and reinstalled the Mags for Overhaul. Overhaul completed by Quality Aircraft Accessories under Work Orders 006083 & 006084.... Removed and reinstalled Alt2 at the proper angle.... Removed and replaced the Engine Driven Fuel Pump. Installed Overhauled Pump S/N: B10GA039. Completed and SID 97-3F fuel system setup.... Installed additional Adel clamps on the fuel line between the FF Xducer and the FF divider.... Removed and reinstalled the #1 Alternator for repair. Repairs completed by Quality Aircraft Accessories under WO 006498.

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 7/29/2015

SIGNED:



Richard A. Barnhart II, IA: 3124994AP

Work Order: 3993-07-2015

Printed by EBis 3 (datcomedia.com)

1. Approving Civil Aviation Authority/Country: FAA/United States		2 AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: B10GA039	
4. Organization Name and Address: Kelly Aerospace Power Systems, 1400 E. South Blvd., Montgomery, AL 36116 (9KPR369B)					5. Work Order/Contract/Invoice Number: M1406-114	
6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work	
1	FUEL PUMP	649368-55	1	B10GA039	OVERHAULED	
12. Remarks: OVERHAULED IN ACCORDANCE WITH TCM X30593A DATED MAY 1987. FULL DETAILS OF WORK CARRIED OUT PER WORK ORDER NO. M1406-114 CERTIFIES THAT THE WORK IN BLOCK 11/12 WAS CARRIED OUT IN ACCORDANCE WITH TITLE 14, CODE OF FEDERAL REGULATIONS, PART 43 AND WITH EASA PART 145. WITH RESPECT TO THAT WORK THE AIRCRAFT COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE UNDER EASA APPROVAL CERTIFICATE NUMBER EASA.145.6193 AND BY THE FAA AIR AGENCY CERTIFICATE NUMBER 9KPR369B.						
13a. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service			
13b. Authorized Signature:		13c. Approval/Authorization No.:	14b. Authorized Signature: 		14c. Approval/Certificate No.: 9KPR369B	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed): STANLEY K. TINDAL		14e. Date (dd/mm/yyyy): 25 JUN 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 authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.						
Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the National regulations by the user/installer before the aircraft may be flown.						

1. Approving Civil Aviation Authority/Country: FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: QAA# 006083	
4. Organization Name and Address: Quality Aircraft Accessories Inc. (QYIR334Y) Phone: 1-877-833-6948 5746 East Apache 918-835-6948 Tulsa, OK 74115 Fax: 918-835-2804						5. Work Order/Contract/Invoice Number: 006083	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	MAGNETO	6314	1	08011435	OVERHAULED		
12. Remarks: <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> CSB641 CAPACITOR <input type="checkbox"/> MSB644 COIL & ROTOR (AD 94-01-03R2) <input type="checkbox"/> MSB645 500 HR. IMPULSE INSPECTION (AD 2005-12-06) </div> <div style="width: 48%;"> <input checked="" type="checkbox"/> SB2-80C 500 HR. INSPECTION <input checked="" type="checkbox"/> SB1-98 250 HR. IMPULSE INSPECTION (AD-99-04-04) <input checked="" type="checkbox"/> SB2-08B BREAKER POINT CAM <input checked="" type="checkbox"/> SB3-08C CARBON BRUSH <input checked="" type="checkbox"/> SB1-12 BREAKER POINT <input type="checkbox"/> SB 1-15 DISTRIBUTOR GEAR </div> </div> MANUAL # EA3000 ISSUE DATE: 08/14 Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the article is considered ready for release to service under EASA Part 145 approval no EASA 145.5982 <div style="text-align: right;">See Attached Work Order Summary for details. (3) pages (MECH: MB)</div>							
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 type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.				
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:	
				<i>Dorothy Lowan</i>		QYIR334Y	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
				<i>Dorothy Lowan</i>		16/JUL/2015	
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/article. 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 Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: QAA# 006084	
4. Organization Name and Address: Quality Aircraft Accessories Inc. (QYIR334Y) Phone: 1-877-833-6948 5746 East Apache 918-835-6948 Tulsa, OK 74115 Fax: 918-835-2804					5. Work Order/Contract/Invoice Number: 006084	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	MAGNETO	6314	1	08011422	OVERHAULED	
12. Remarks:						
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> CSB641 CAPACITOR <input type="checkbox"/> MSB644 COIL & ROTOR (AD 94-01-03R2) <input type="checkbox"/> MSB645 500 HR. IMPULSE INSPECTION (AD 2005-12-06) </div> <div style="width: 48%;"> <input checked="" type="checkbox"/> SB2-80C 500 HR. INSPECTION <input checked="" type="checkbox"/> SB1-98 250 HR. IMPULSE INSPECTION (AD-99-04-04) <input checked="" type="checkbox"/> SB2-08B BREAKER POINT CAM <input checked="" type="checkbox"/> SB3-08C CARBON BRUSH <input checked="" type="checkbox"/> SB1-12 BREAKER POINT <input type="checkbox"/> SB 1-15 DISTRIBUTOR GEAR </div> </div> <p>MANUAL # EA3000 ISSUE DATE: 08/14</p> <p>Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the article is considered ready for release to service under EASA Part 145 approval no EASA 145.5982</p> <p style="text-align: right;">See Attached Work Order Summary for details. (3) pages (MECH: MB)</p>						
13a. Certifies the items identified above were manufactured in conformity to:			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12			
<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.			Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature:		13c. Approval/Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						QYIR334Y
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
						16/JUL/2015
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: QAA# 006498	
4. Organization Name and Address: Quality Aircraft Accessories Inc. (QYIR334Y) 5746 East Apache Tulsa, OK 74115				5. Work Order/Contract/Invoice Number: 006498		
6. Item:		7. Description:		8. Part Number:	9. Quantity:	10. Serial Number:
1		ALTERNATOR		ES4024LPR	1	J112059
11. Status/Work: REPAIRED						
12. Remarks: MANUAL # TW5000 ISSUE DATE: 10/12 Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the article is considered ready for release to service under EASA Part 145 approval no EASA 145.5982 See Attached Work Order Summary for details. (2) pages (MECH: JJ)						
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 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>Doan Low</i>		14c. Approval/Certificate No.: QYIR334Y
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed): <i>Doan Low</i>		14e. Date (dd/mm/yyyy): 24/JUL/2015
User/Installer Responsibilities						
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p>						

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	→				
8/27/16	Hobbs	1206.9	-		Oil & Filter changed Serviced with 7qts Phillips 20W50XC Tempest Filter 48108-2, old filter cut open and inspected - no contaminants found Engine Run-up, NO leaks noted ATP 3298211 owner Kevin A. Hill
12/09/16	Hobbs	1222.7			Installed new Concorde battery Model RG24-15M torqued to 70 IN/LB. 1AW Concorde ATP 3298211 owner Kevin A. Hill
<div> <div> ENGINE MODEL: IO-360-ES (6B) ENGINE S/N: 357675 REG NO: N811WM WORK ORDER: 5161-05-2017 </div> <div> ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Littitz, PA 17543 Phone: 717-735-5179 </div> <div> DATE: 6/19/2017 A/C TSN: 1230.3 ENG TT: 924.3 HOBBS: 1230.3 </div> </div>					
Engine Entries Annual Engine Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D, with reference to the Cirrus AMM checklist ch 5-20. Compression check (x/80): 1 70 2 65 3 64 4 62 5 69 6 68 MO 47. Drained and sampled the oil, removed and inspected the oil filter. Installed a new oil filter and serviced the engine with 8 quarts of Phillips XC 20W-50. Cleaned, gapped and tested the spark plugs. Cleaned the fuel injector nozzles. Checked the mag timing. Final run up/leak check good. All Ad's current thru 2017-12.					
I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.					
<div> <div>DATE: 6/19/2017</div> <div> SIGNED: <i>Joel A. Glover</i> Joel A. Glover Certified Repair Station No. 5T2R901C </div> <div> Work Order: 5161-05-2017 Printed by EBis 3 (datcomedia.com) </div> </div>					
<div> <div> MAKE: Cirrus MODEL: SR20 S/N: 1042 REG NO: N811WM WORK ORDER: 5520-11-2017 </div> <div> ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Littitz, PA 17543 Phone: 717-735-5179 </div> <div> DATE: 11/30/2017 A/C TSN: 1258.1 HOBBS: 1258.1 </div> </div>					
Airframe Entries Removed and replaced the #5 CHT probe... Re-tensioned the NLG spindle cup tension per the CMM.					
Maintenance Release The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.					
<div> <div>DATE: 11/30/2017</div> <div> SIGNED: <i>Joel A. Glover</i> Joel A. Glover Certified Repair Station No. 5T2R901C </div> <div> Work Order: 5520-11-2017 Printed by EBis 3 (datcomedia.com) </div> </div>					
<div> <div> ENGINE MODEL: IO-360-ES (6B) ENGINE S/N: 357675 REG NO: N811WM WORK ORDER: 5520-11-2017 </div> <div> ADVANCED Fly Advanced Repair Station No. 5T2R901C 530 Airport Rd. Littitz, PA 17543 Phone: 717-735-5179 </div> <div> DATE: 11/30/2017 A/C TSN: 1258.1 ENG TT: 952.1 HOBBS: 1258.1 </div> </div>					
Engine Entries Drained the engine oil and replaced filter. Serviced engine with 6 qts of Phillips 20W50 X/C and 1pt of CamGuard. Cut open filter and inspected, no contamination found at this time. Performed oil analysis. Ground run and leak checked good.					
Maintenance Release The aircraft and/or component(s) on N811WM was repaired and inspected in accordance with the current rules and regulations of Title 14 of the Code of Federal Regulations, was found Airworthy and was returned to service.					
<div> <div>DATE: 11/30/2017</div> <div> SIGNED: <i>Joel A. Glover</i> Joel A. Glover Certified Repair Station No. 5T2R901C </div> <div> Work Order: 5520-11-2017 Printed by EBis 3 (datcomedia.com) </div> </div>					

Engine Service and Maintenance Record

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

DATE: 7/19/2018
A/C TSN: 1281.1
ENG TT: 975.1
HOBBS: 1281.1

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DATE: 7/19/2019
A/C TSN: 1311.9
ENG TT: 1005.9
HOBBS: 1311.9

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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-360-ES (6B)
ENGINE S/N 357675
REG. NO. N811WM
WORK ORDER:
6968-12-2019

ADVANCED Fly Advanced

Repair Station No. 5T2R901C
530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 7/9/2020
A/C TSN 1328 9
ENG TT 1022 9
HOBBS 1328 9

Engine Entries

Annual Engine Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM checklist ch 5-20. Compression check (x/80) 1: 68 2: 70 3: 58 4: 70 5: 70 6: 69 - MO 43. Drained oil and performed Blackstone oil analysis. Removed and inspected the oil filter, no contamination noted. Installed a new AA48108-2 oil filter and serviced the engine with 7 quarts of Phillips XC 20W-50 and 1 pint CamGuard. Cleaned, gapped and tested the spark plugs. Cleaned the fuel injector nozzles. Checked the mag timing. Final run up/leak check good. All Ad's current thru 2020-14. Installed missing throttle body return spring. Removed and replaced the left magneto with rebuilt assembly P/N: 6314, S/N: 10060976 (Removed S/N: 08011422), magneto installed with new gasket and timed to engine. Removed and replaced the right magneto with rebuilt assembly P/N: 6314, S/N: 15010438 (Removed S/N: 08011435), magneto installed with new gasket and timed to engine.

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 7/9/2020

SIGNED

Joshua J. Ferry

Certified Repair Station No. 5T2R901C

Work Order: 6968-12-2019

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4/8/2021 Hobbs 1338.5

oil & Filter changed, Serviced with 7 qts. Phillips XC 20W-50 and 1 pt. CamGuard. Tempest oil Filter #48108-2, Filter cut open & inspected, no contaminants found. Engine Run up no leaks noted ATP #3298211, Owner Ken A. DeO

ENGINE MODEL:
IO-360-ES (6B)
ENGINE S/N 357675
REG. NO. N811WM
WORK ORDER:
8242-07-2021

ADVANCED Fly Advanced

Repair Station No. 5T2R901C
530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 9/10/2021
A/C TSN 1356 8
ENG TT 1050 8
HOBBS 1356 8

Engine Entries

Annual Engine Inspection completed IAW FAR 91.409 and the requirements outlined in FAR 43 App. D. with reference to the Cirrus AMM checklist ch 5-20 and Continental Motors Maintenance and OH Manual Sec. 6-3.4. Compression check (x/80) 1: 66 2: 67 3: 56 4: 69 5: 67 6: 69 - MO 43. Drained oil and performed Blackstone oil analysis. Removed and inspected the oil filter, no contamination noted. Installed a new customer supplied AA48108-2 oil filter and serviced the engine with (customer supplied) 7 quarts of Phillips XC 20W-50 and 1 pint CamGuard. Performed borescope inspection, no defects noted. Cleaned, gapped and tested the spark plugs. Cleaned the fuel injector nozzles. Checked the mag timing. Final run up/leak check good. All Ad's current thru release 2021-18. C/W AD 2008-11-18 Heat Exchanger Inspection IAW SB 2X-78-07R1, no defects noted. Next due Hobbs 1456.8. Inspected Cylinder #2 and #4 for intake and exhaust leaks. Removed and replaced the Cylinder #2 and #4 intake gaskets. Removed and re-installed the engine driven fuel pump P/N: 649368-55, S/N: B10GA039, fuel metering assembly P/N: 652844-1A4, S/N: A03EA294, and fuel manifold valve P/N: 646508-10A6P, S/N: C03EA329 after overhaul by Great Planes Metering Inc. (see 8130-3 dated 08-18-21). C/W fuel system setup IAW Continental maintenance and overhaul manual M-7. Set unmetered fuel at 8GPH and mixture rise at 50 RPM.

I certify that this ENGINE has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 9/10/2021

SIGNED

Joshua J. Ferry

Certified Repair Station No. 5T2R901C

Work Order: 8242-07-2021

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