ENGINE LOG BOOK



Publication ELB-01

JUN 2011

Service Information

Consult the Continental Motors web site at continentalmotors aero for engine related news or announcements. Continental Motors Internet Service contains

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Consult the Continental Motors web site at continentalmotors aero for engine related news or announcements. Continental Motors Internet Service contains Consult the Continental Motors web site at continental motors. Service contains useful information for Continental Motors engine owners, including electronic versions of the most current engine Instructions for Continued Airworthiness useful information for Continental Motors engine model and service bulletins that may be pertinent to your engine model.

If internet access is not available, contact our Customer Service Department at:

1-888-826-5465 Toll free in the United States or

1-251-438-8299 International

Engine Returns

Return engines for core credit with this log book to: Continental Motors, Inc. 2039 Broad Street Mobile, AL 36615 USA

Return engines for overhaul with this log book to: **Mattituck Services** 410 Airway Drive Mattituck, NY 11952 USA

USE ONLY FUEL CONFORMING TO ASTM D910 USE OF AUTOMOTIVE FUEL IS PROHIBITED



ontinental Motors,

Production Certificate 508

Printed:

02/15/2012

Test Date:

02/13/2012

This engine model I0360ES25B, serial number 1006112 was manufactured 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.

Date	TOTAL LILLE		Overhaul		Eligille Selvice and maniferiance reserve			
	Hours	Min	Hours	Min	Record maintenance actions including engine part removal a installation and compliance with inspections, Airworthiness Directive Special Inspections, Modifications and Service Bulletins			
		No.	1 1					
			_					
			<u>L</u>	owe	Aviation Company			
3					Macon, Georgia			
	1000000	aft Regis	<u>tration</u>	N117	7LF <u>Date</u> 6/4/2012			
	Mode	_		SR20	Work Older 12025			
	Seria	l Number	5	2148	8 <u>Flight Hobbs</u> 25.3			
	Drai	ned oil,	replaced	filter ar	nd added 8 quarts of 15w50. Leak checked ok.			
	, ren	Jillea C	ırrus De	livery Q	Quality Check II Inspection (25 hour interval items)			
	40	Cordant	C WILLI C	III US IVIA	allitenance Program. This work has been			
	" "ISPE	cieu ai	iu ioung	to be an	IIIWORTHY with respect to the work performed			
-	11113	engine	is returne Ier # 126	ea to se	ervice. Details are on file under Lowe Aviation ————			
	CO. V	VOIK OF	ier # 126	023.	Quic Par l -			
	0				Nick Porcel ———			
					FAA Repair Station # ETER699D			
	1 1 20		2 727					
			11					
			7 m		Arriotion Company			
			<u> I</u>	owe	Aviation Company			
		e Danis	-		Macon, Georgia			
	A Company of the Comp	raft Regis	-	N11	Macon, Georgia 17LF Date 10/4/2012			
	Mod		etration	N11 IO-3	Macon, Georgia 17LF Date 10/4/2012			
	Mod Seria	<u>el</u> al Numbe	<u></u> stration	N11 IO-3 100	Macon, Georgia 10/4/2012 17LF Date 10/4/2012 360-ES Work Order 12787 06112 Flight Hobbs 49.8			
	Mod Seria	el al Numbe	etration er	N11 IO-3 100 d filter a	Macon, Georgia 10/4/2012 17LF Date 10/4/2012 360-ES Work Order 12787 06112 Flight Hobbs 49.8 and added 8 quarts of 15w50. Leak checked ok.			
	Mod Seria Dra Per	el al Numbe ined oil, formed	replace	N11 IO-3 100 d filter a	Macon, Georgia 17LF Date 10/4/2012 360-ES Work Order 12787 06112 Flight Hobbs 49.8 and added 8 quarts of 15w50. Leak checked ok. items (In Service Inspection I) in accordance with			
	Mod Seria Dra Peri	el al Numbe ined oil, formed	replace 50 HR Interpretation	N11 IO-3 100 d filter a nterval it	Macon, Georgia 17LF Date 10/4/2012 360-ES Work Order 12787 06112 Flight Hobbs 49.8 and added 8 quarts of 15w50. Leak checked ok. items (In Service Inspection I) in accordance with am Requirements.			
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	Mod Seria Dra Peri Cirr This	ined oil, formed us Main work he performe Aviation And se Ran le Blacke Steve 5/13.	replace 50 HR Intenance as been med. Thon Co. w	N11 10-3 100 d filter and terval in Program inspection in Program	Macon, Georgia 17LF Date 10/4/2012 360-ES Work Order 12787 06112 Flight Hobbs 49.8 and added 8 quarts of 15w50. Leak checked ok. items (In Service Inspection I) in accordance with am Requirements. cted and found to be airworthy with respect to the ne is returned to service. Details are on file under der # 12787. Nick Porcel FAA Repair Station # ETER699D N117LF Tach Time 79.1 If and replaced filter CH48108-1 ts of Aeroshell 100W Plus oil. Test back into service. Sent sample of oil to es for analysis. N 3519047 Tach Time 96.1 Hobbs 139.9 Main & Rt Main W/ new Goodyear FLT Custom III			
	Mod Seria Dra Peri Cirr This	ined oil, formed us Main work he performe Aviati And see Ran le Blacke Steve 15x600	replace 50 HR Ir tenance as been med. Th on Co. w	N11 10-3 100 d filter a terval if Progra inspection is enging work or continued by the second of the second in th	Macon, Georgia 17LF Date 10/4/2012 360-ES Work Order 12787 06112 Flight Hobbs and added 8 quarts of 15w50. Leak checked ok. items (In Service Inspection I) in accordance with am Requirements. cted and found to be airworthy with respect to the ne is returned to service. Details are on file under der # 12787. Nick Porcel FAA Repair Station # ETER699D N117LF Tach Time 79.1 If and replaced filter CH48108-1 Its of Aeroshell 100W Plus oil. Test back into service. Sent sample of oil to es for analysis. Tach Time 96.1 Hobbs 139.9			

		Deechcraft
	100	DVANCED PIPER
		14299 SW 127th St, Suite 101
ate		Miami, Florida 33186
		Ph: 305-259-8291 Fx: 305-259-8302
forward -	Date: 5/06/2013; Aircraft: N1	117LF; Type: Cirrus SR20; S/N: 2148; Total Time: 101.70; Engine - Type: IO-360-ES(25)B, S/N: 1006112,
-	Time: 101.70	100 Hr Inspection I/AW The Cirrus SR20 Maintenance Manual
	T at A Chapter #41	78/90 #2) 78/80 #3) 76/80 #4) /6/80, #3) /6/80, #6) /3/80
	3) Drained Oil, Replaced Filte	er Element, Inspect Old Filter Element For Metal, None Noted, Serviced Engine With Aeroshell 100 Plus
	7 Oil Leak Check OK	
	4) Took Oil Sample, Filled Ot 5) Clean All Fuel Injection No	IT All POMIS
	6) Clean & Gap All Spark Plu	ngs
	7) Secure All Pocker Boy Co	vers No Leaks Noted
	8) Install New #2 Alternator P	VN# 653344 S/N# H-H-101213, By Continental Motors Under W/O# 340280 0000117584 Form Tracking
	268524, See Form 8130, Ops 9) AD 2011-26-07 D/N/A Per	Engine Manufacture Date & TCM Magnetos Installed, No Further Action
	10) AD 2012-03-06C D/N/A N	lo AvStar Fuel System Installed
	THE ENGINE IDENTIFIED A	BOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF
	THE FEDERAL AVIATION A	DMINISTRATION UNDER FAR 43 APPENDIX "D" ANNUAL/100 HOUR INSPECTION AND IS
		TO SERVICE; PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER CORRESPONDING
	SHOP ORDER REFERENCE SIGNATURE OF AUTHORIZ	ENUMBER 13-1976 DATE: 05/06/2013
	FOR: ADVANCED AIRCRAF	T CENTER, INC PETER J. LO BELLO AP73543036IA
]		
•		14299 SW 127th St, Suite 101 Miami, Florida 33186 Ph: 305-259-8291 Fx: 305-259-8302
		1 II. 303-233-0231 T.X. 303-233-0302
Date: 6	06/2014; Aircraft: N117LF; Typ	e: Cirrus SR20; Total Time: 144.20; Engine - Type: IO-360-ES(25)B, S/N: 1006112, Time: 144.20
1) PER	FORMED ANNUAL/100 HR INS	SPECTION
		ECK : #1 76/80, #2 74/80, #3 74/80, #4 76/80, #5 74/80, #6 75/80.
3) DRA	NED OIL, REPLACED FILTER	ELEMENT, INSPECT OLD FILTER ELEMENT FOR METAL. NONE NOTED. SERVICED
ENGINE	WITH PHILLIPS 20W50 OIL.,	LEAK CHECK OK.
4) 1001 5) CLEA	(OIL SAMPLE, FILLED OUT A NED AND GAPPED ALL SPAI	ILL FORMS.
O) OLL	GAFFED ALL SPA	AN PLUGS.
THE EN	GINE IDENTIFIED ABOVE WA	AS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF
ILELE	PERAL AVIATION ADMINISTR	ATION UNDER FAR 43 APPENDIX "D" ANNI IAI /100 HOLIP INSPECTION AND IS APPROVED
FUR RE	URN TO SERVICE, ALL APP	LICABLE AD'S HAVE REEN REVIEWED AND LIDDATED: DEDTINENT DETAILS OF THE
IVELVIII	JRE OF AUTHORIZED REPRE	SPONDING SHOP ORDER REFERENCE NUMBER 42 4005 DATE: 06/06/2014
FOR: AD	VANCED AIRCRAFT CENTER	R, INC PETER J. LO BELLO AP735430361A Lety Bell
T	1 2	
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N117LF Cirrus Design

Registration No. N117LF Model Number: SR-20 Serial Number: 2148 TSDS A00009CH July 10, 2015

Tach 223.9 hrs Hobbs 304.0 hrs ENG-TTSN 223.9 hrs

ENGINE LOG ENTRY – Annual Inspection

Teledyne Continental Motors Engine
Engine Type Certificate No. E1CE Rev 17
M/N IO-360-ES25B 200 Bhp @ 2,700 rpm
S/N 1006112
TCDS E1CE Rev 17

Conduct engine annual inspection in accord with 14.CFR.Part 43 Appendix D & AC 43.13 (1b2b).

Checked all Cylinder compressions when hot. Cylinder compression test results: Cyl-1 77/80 psig, Cyl-2 78/80 psig, Cyl 3 76/80,Cyl-4 74/80 psig, Cyl-5 71/80, Cyl-6 78/80. Inspect all fuel injection distribution lines for cracks and leaks at distributor and cylinders. No evidence of cracks or leaks observed.

Remove Continental drain plug 636376-H & install quick drain valve Curtis Model number SS6250 Change Oil and Oil filter – Service with 8 qts of Aeroshell-100+, & Tempest Oil Filter CH48108-2 Cut open existing oil filter, no contamination found. Provided owner with old oil sample for analysis. Run up engine and check for leaks, none observed, Ops check OK.

Remove, clean, gap, test, rotate and reinstall RHM38E Spark Plugs.

Gap set at 0.016" to 0.021". Apply electrically conductive grease to all cigarette tips. Apply anti-seize compound to plug threads, Replace spark plug washers with new Champion M-674 copper washers. Torque spark plugs to 25 to 30 Ft-lbf. Total time on plugs: 223.9 hrs

Magnetos:

Oil leak found on left magneto to accessory case interface. Remove left mag, install new gasket, re-time both mags, run up engine and test. Mag drops: 60 rpm right and 80 left. Max permissible drop 150 rpm and max differential permissible 75 rpm. Ops check OK. Check timing of existing magnetos, mags slightly retarded, re-set at 24° per Engine Data Plate. Left Side: PN 10-500556-3, Type S6L5C-25, SN D12AA060. Right Side PN 10-500556-3, S6L5C-25, SN D11LA059. Total time since magneto's new = 223.9 hrs.

Found No. 2 Continental Alternator inoperative. PN: 653344; SN: H-H-101213. Placarded in-operative at owner's request – aircraft may be operated VFR flight only according to Cirrus. Cirrus service center to remove and replace no 2 alt'n.

Conduct Engine Annual inspection, complied with all AD's thru 2015-11, see separate AD compliance record. All work above was accomplished in accordance with the appropriate sections of 14.CFR Part 43 Appendix D & FAA AC 43.13-1B2B.

I certify that this engine has been inspected in accordance with an annual inspection per 14.CFR Part 43 & AC 43.13(1b2b) Appendix D and have determined it to be in airworthy condition and approve it for return to service.

Edward S. Sorrell A&P 3472028 IA

Date	Hours	Min	Hours	Min	Record maintenance actions including engine installation and compliance with inspections, Airwo Special Inspections, Modifications and Service Bull	part removal and orthiness Directives, etins
ried forward		-				
					OK ENTRY	
	+	-	S/N 1000 REG.# N		MODEL: 10-360-ES25B DATE: 02/12/2016 TIME: TACH: 265,3	
			MAINTE	NANCE	TEMS C/W. T.S.N. 265.3	
			1.	REMOVE	D RIGHT MAGNETO , SENT TO TROPIC AIRPOWER PAIR . INSTALLED P/N 10-500556-3 S/N D11LA059	
				AND RE-	TIMED BOTH MAGNETO'S TO THE ENGINE.	
	-	$\overline{}$	2	(SEE 813	0-3 W.O. T4033) RUN AND OPERATIONALLY CHECKED .	
		_			CKS NORMAL.	
			WA EL E		YOU .	
		100	JIM FLEI A&P 343	7766 V	N 4	
	2				<u>-</u>	
	11	4/0	9/2016		N117LF Tach Time 275.3	
					and replaced filter CH48108-1	
			R. Schoolson in Schoolson of	September 1997	ets of Aeroshell 100W Plus oil. Test	
		Kan	leak che	cked, pu	back into service. Sent sample of oil to	
					Pilot 3519047	
			CII IJAIIAE			
	1					
	S/N RE	1 10061 1 G.# N117 INTENA 1. COI #1 7	TLF DANCE ITEM MPRESSION 74/80 #2 70	DEL: 10 TE: 03/0 IS C/W. ON CHEC 0/80 #3 7	D-360-ES25B T.S.N. 17/2017 TIME: TACH: 301,1 CK AS FOLLOWS: 17/80 #4 76/80 #5 70/80 #6 72/80 STEM FOR LEAKS.	
	- 	3. CLE	EANED AN	ID GAPP	ED SPARK PLUGS	
	I CE	RTIFY 1	THIS ENGI	NF HAS	REFN INSDECTED IN	
	FOL	JND TO	BE IN AN	AIRWOR	IS APPENDIX "D" ANNUAL INSPECTION AND WAS STREET ON AT THIS TIME.	
	MIC	HAEL M	URRELL	Mu	iluef Minell	
	AGP	262176	312 I.A.			
			ň			
	- FNO	NE 1 0 0				
	- S/N	INE LUG 1006112	BOOK EN	ITRY FI: 10-	360-ES25B T.S.N. 328 6	1
	KEG.	# N117L	F DATI	E: 03/10/	360-ES25B T.S.N. 328.6 2018 TIME: TACH: 328.6	
	MAIN	COM	CE ITEMS	CW.	AS FOLLOWS:	
		#1 ///	VOU #2 78/8	30 #3 7 <i>8/</i> /	RO #4 79/90 #5 70/00 #6	
	2. - 3.			JEI 315	IEM EOD I EAVO	
	4		INCO OIL.	REMUVE	CED ALL SPARK PLUGS. D AND REPLACED OIL FILTER	
	ICED	P/N A	A48108-2	, SERVIC	ED WITH 8 QTS. OF AEROSHELL 100PLUS.	
	7000	RDANC	E WITH	A D 42	ED WITH 8 QTS. OF AEROSHELL 100PLUS. EEN INSPECTED IN APPENDIX "D" ANNUAL INSPECTION AND WAS HY CONDITION AT THIS TIME.	
	- i i				THIS TIME.	
	MICH	AEL MUI	RELL	Me	Luf Munell	
	- A&P2	26217631	2 I.A.		- manel	
	- A&P 2	6217631	2 I.A.		-4 marely	

Pata	Total Time	Time Since Last Overhaul	Engine Service and Maintena	ance Record
1	Registration: N	N117LF Date: 4 Cirrus S/N: SR20	I-12-2019 2148 ACTT: 442.4	nd 3s,
airworth Schedule listing.	ine has been inspec y condition at this ti ed Inspection Repor	ine Model: IO ted in accordance me. Complied with t, Section 5-20 of t	ne Log Book Entry 0-360-ES25B S/N: 1006112 with a 100 Hour Inspection and determined to be Inspection Checklist as per Appendix D to Part Athe cirrus Maintenance Manual. For AD complian	43, Cirrus — ce see AD —
replaced serviced	ssions #1 76/80 #2 filter, Added 8 qts air filter, cleaned ii inspection IAW 201	W100 Aeroshell o njectors.	#4 77/80 #5 77/80 #6 77/80 Master orifice 46. I il, cleaned and gapped plugs, checked magneto	timing, —
I certify t and was return to	determined to be in service	aired and inspecte a airworthy condition	ed in accordance with the current federal aviation on with respect to the work performed and is app	regulations proved for —
		T , T		-
			EMINI	
	1470	00 North Airport Drive • Suit	te 130 • Scottsdale, AZ 85260 • (480)991-5387	
• n	Tail Number: N117 Hobbs Meter: 598.		60-ES25B S/N: 1006112 Date: May 24, 2019	TA(H 462.4
niter i	or metal contamination	ined oil sample for an n, filter normal. Insta	E LOG ENTRY nalysis. Removed oil filter assy. Cut and inspected oil alled new oil filter PN: CH48108-1 and serviced engine nee with CM M-7 Sec. 6-3.	
Compr #4 - 54 Due 06	·/80, #5 - 52/80, #6 - 5	rdance with CM M-0 0/80, Master Orifice	Sec. 6-4.11.2. #1 - 50/80, #2 - 64/80, #3 - 68/80, Reading 40 PSI. Tool GT075 S/N: 3518 Calibration	
Adjuste accomp	ed prop governor low olished IAW Cirrus SI	pitch stop. Ran aircra R20 AMM Chap. 61-	aft at full power reaching 2660 RPM. Work 20.	
I certify A.M.M determi	that this aircraft has b Maintenance Manual F ned to be in an airwort	een Inspected/Repairo N: P/N 12137-001, Re hy condition and is ap	leak checks, no defects noted at this time. ed IAW the current FAA Regulations and Cirrus SR20 ev. Orig., dated June 2010. This Aircraft has been peroved to return to service in regards to the work	
accompi Signatu	lished. For additional d	etails see W/O# 05193	112 & 0519320. Cert: FAA CRS# GNUR484X	
	1			
		4 2 2		

Southeast Aero Services Inc.

St Augustine, FL. Phone (904) 824-1899/Fax (904) 824-6334

s/n:1006112 N117LF Continental IO-360-ES(25)B Completed an Flight Hr:512.2hrs. Engine Total Time:512.2hrs. 5-14-2020 Hobbs:677.3hrs. Annual inspection in accordance with 14CFR 43 Appendix D with references to Chapters 4&5 Cirrus SR20 maintenance manual this date. AD's checked thru FAA Bi-Weekly 2020-10. Compression checked as follows: 1)58/80 2)64/80 3)73/80 4)66/80 5)58-80 6)60/80. Oil drained, Blackstone sample taken. Oil filter removed and contents examined with no contaminants noted. New filter installed and engine serviced with 7qts Phillips 20-W-50 oil. Installed overhauled magneto's (p/n's:10-500556-3, s/n Lt:D12LA062R, s/n Rt:D08BA437) left/right locations and timed to engine using new drive bushings/gaskets. Installed new ignition lead springs, all sparkplug locations. Installed new exhaust riser assemblies #1 / #6 cylinder locations using new gaskets/hardware. Installed new seals, left/right cylinder head drain manifold locations. Installed new induction air filter element. Engine ground run completed referencing Chap.6.4 Continental Standard Practice Maintenance Manual. Adjusted/set RPM, unmetered/metered fuel pressures, idle speed and mixture settings. Systems function check satisfactory with no leaks noted.

I certify this Engine has been inspected in accordance with an Annual inspection and determined to be in

Airworthy condition at this time.

Bryan M Wood A&P3216290IA

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