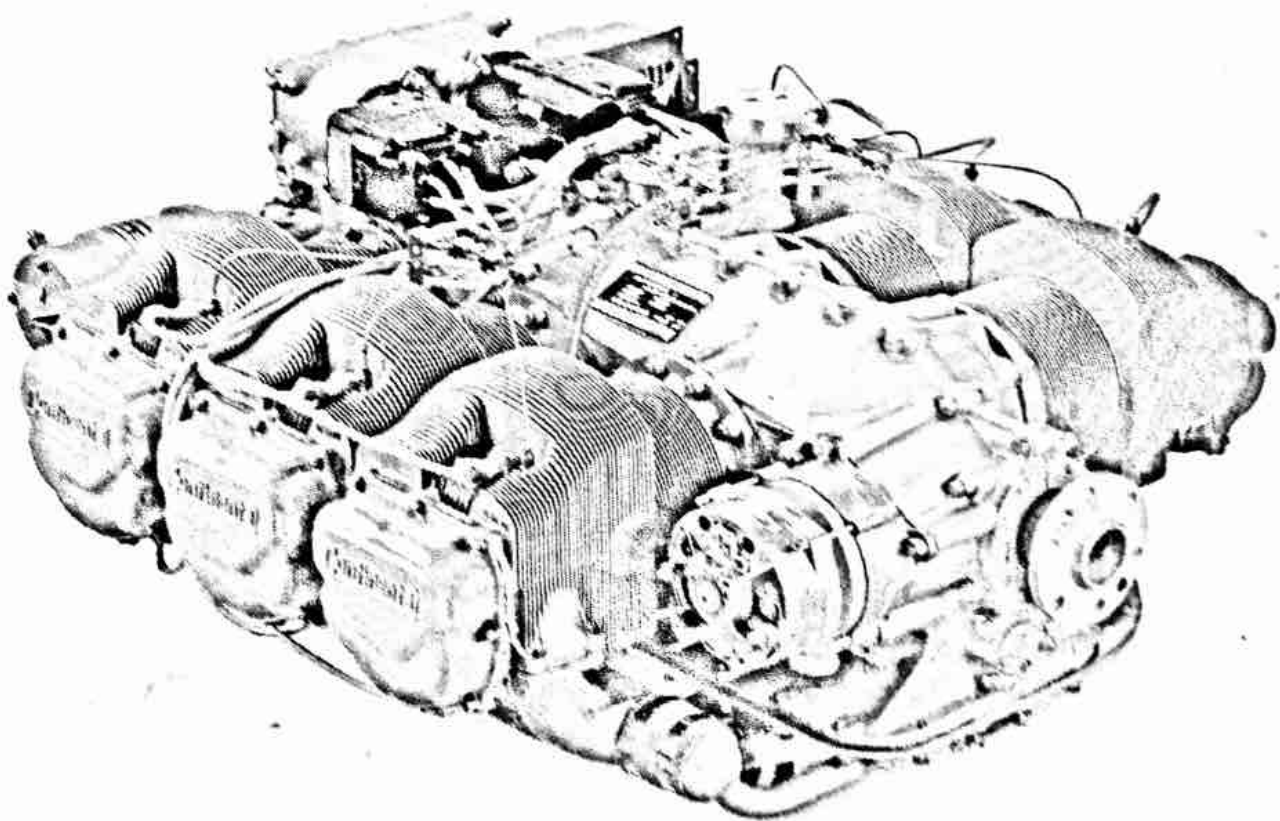


101124

ENGINE LOG BOOK



Teledyne Continental Motors, Inc.

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



Teledyne Continental Motors, Inc.

A Teledyne Technologies Company

Printed: 09/11/2002

This engine model **10360ES6**, Serial No. **357504** was manufactured on **08/24/2002** 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

MODIFICATIONS AND SERVICE BULLETINS

9-03-02	0		
10-4-02	25.8		

Serviced Engine with 8 Qts of Phillips 20 **WAFG** Straight Mineral Oil on 9 03 02 by **94**.

Change oil and filter. Service with 7 qts Aeroshell 100 mineral oil.
Ch. H. H. A&P 222541334

Make: -Cirrus Design
 Model: -SR20
 Serial No.: -1257
 Hours: - Hobbs 53.9



Reg. No.: -N907CD
 Date: 12/16/02
 W/O No.: -40395
 Page: 1

Log Book Entry

Description of Work Accomplished
 Accomplished oil and filter change, new filter CH48108 and 8 quarts Aeroshell 100W plus. Performed leak check.

Approval for Return to Service
 All work has been performed in accordance with the applicable manufacturer's maintenance instructions and functionally checked for proper operation. The item identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this agency under this work order.

Authorized Signature: *[Signature]* Henry A. Roe Inspector
 A&P 262042276

1635 NW 51st Place Fort Lauderdale, Florida 33309 Phone 954 491 3170 Fax 954 491 1612

Make: Continental
 Model: IO-360-ES
 Serial No.: 357504
 Hours: HOBBS 97.3



Reg. No.: N907CD
 Date: 2/3/03
 W/O No.: 40483
 Page: 1

Log Book Entry

Summary of work accomplished.
 Installed new CHT probe P/N 12637-001, ops check good.
 Accomplished oil and filter change, new filter CH48108 and 8 quarts Aeroshell 100W Plus.
 Cut open old filter, No contamination at this time.
 Ran engine performed leak check.

Approval for Return to Service
 All work has been performed in accordance with the applicable manufacturer's maintenance instructions and functionally checked for proper operation. The item identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this agency under this work order.

Authorized Signature: *[Signature]* Henry A. Roe Inspector

FAA Certificated Repair Station WDR618M
 1635 NW 51st Place Fort Lauderdale, Florida 33309 Phone 954 491 3170 Fax 954 491 1612

Make: **Continental**
Model: **IO-360-ES6**
Serial No. **357504**
Hours **Hobbs 139.8**



Log Book Entry

Reg. No.: **N747AY**
Date: **10/20/03**
W/O No.: **41085**
Page: **1**

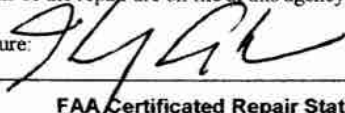
Summary of work accomplished.

Accomplished 100 Hour/Annual inspection in accordance with FAR Part 43 Appendix D and determined to be in airworthy condition. Compression check 1) 78/80 2) 77/80 3) 76/80 4) 76/80 5) 75/80 6) 76/80.
Performed oil and filter change. New filter CH48108 and 8 quarts Aeroshell 100W Plus oil.
Cut open old filter no contamination found at this time.
Removed, cleaned, gapped, inspected, and reinstalled all spark plugs.
Installed new P/N 10790-004 baffle.

Checked for new and recurring ADs through 2003-20.
Ran engine performed leak and operational check.
10/20/03

Approval for Return to Service

All work has been performed in accordance with the applicable manufacturer's maintenance instructions and functionally checked for proper operation. The item identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this agency under this work order.

Authorized Signature: 

Henry A. Roe Inspector

FAA Certified Repair Station WD4R618M

1635 NW 51st Place Fort Lauderdale, Florida 33309

Phone 954 491 3170 Fax 954 491 1612

Make: **Continental**
Model: **IO-360-ES6**
Serial No. **357504**
Hours **Hobbs 192.5**

EAM

Executive Aircraft Maintenance

Log Book Entry

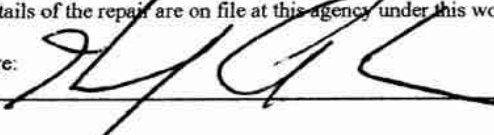
Reg. No.: **N747AY**
Date: **07/16/04**
W/O No.: **40057**
Page: **1**

Summary of work accomplished.

Accomplished oil and filter change new filter CH48108-1 and 8 quarts Aeroshell 100W Plus oil.
Cut open old filter, no contamination found at this time.
Ran engine, performed leak check.
7/16/04

Approval for Return to Service

All work has been performed in accordance with the applicable manufacturer's maintenance instructions and functionally checked for proper operation. The item identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service. Pertinent details of the repair are on file at this agency under this work order.

Authorized Signature: 

Henry A. Roe A&P262042276

1635 NW 51st Place Fort Lauderdale, Florida 33309

Phone 954 351-5000 Fax 954 351-1300

IN Number	A/C T.T.	Hobbs	ENG. S...	Each Time
747AY	216.6		216.6	216.6
ITEM	DESCRIPTION			
ELT	ELT Battery Due 3/08 FAR 91.207 (d) Due 9/05 Pitot Static Test Due 9/06 Transponder Test Due 9/06 Propeller Total Time 216.6 Engine T.T. 261.6			
Compression	78/80 74/80 76/80 74/80 76/80 78/80			

KIM DAVIDSON AVIATION INC.

2701 AIRPORT AVE.
SANTA MONICA, CA. 90405

PHONE (310) 391-6293
FAX (310) 391-6294

F.A.A. REPAIR STATION
YYKR678L

11/11/04

N 747AY

MAKE: CIRRUS MODEL: SR 20 S/N: 1257
 AC T.T. 217.3 HOBBS: 217.3
 ENGINE: T.C.M MODEL: IO-360-ES6 S/N357504
 PROPELLER: HARTZELL MODEL: BHC-JZYF-1BF S/N EF 312B

LABOR:

- 1.) C/W ANNUAL INSPECTION I.A.W. FAR 43 APPENDIX (d)
- 2.) COMPRESSION 1-78, 2-74, 3-76, 4-74, 5-76, 6-78
- 3.) C/W ANNUAL INSPECTION OF PROPELLER
- 4.) C/W FAR 91.207(d) ON ELT TEST & INSPECTION, BATT. DUE 3-08
- 5.) REPLACE RH MAIN TIRE WITH NEW
- 6.) REPLACE T&B BATTERY WITH NEW
- 7.) ADJUSTED SUCTION REGULATOR AS NEEDED PER M.M.
- 8.) REPLACE MISC. INSTRUMENT SCREWS WITH NEW DUE TO RUSTING.
- 9.) REPLACE WORN STEP NON-SKID TAPE WITH NEW.

I certify that this Aircraft /Engine was inspected in accordance with a
Annual inspection per FAR PART 43 APPENDIX 'D' and was found to be
in airworthy condition.

KIM DAVIDSON AVIATION INC.
RS# YYKR678L

SIGNATURE 

Total Time		Time Since Last Overhaul	
Hrs.	Min.	Hrs.	Min.

Engine Service and Maintenance Record

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

ENGINE MODEL:
ENGINE S/N
REG NO 747AY
WORK ORDER: 00777



Kim Davidson Aviation, Inc.
Repair Station No. YYKR678L
2701 Airport Avenue
Santa Monica, CA 90405
Phone: (Maint 310-391-8293) (Avionics 310-391-0892)

DATE: 10/28/2005
A/C TSN: 227.0
ENG TT: 227.0
HOBBS: 227

Engine Entries

I certify that this engine has been inspected in accordance with with an ANNUAL inspection I.A.W. Cirrus Checklist and has been determined to be in AIRWORTHY CONDITION....&...Removed and replaced oil with -8 qts of 15W50-. Removed oil filter, cut and inspected for metal, and replaced with new. No metal found at this time. Run up and no leaks noted....&...Perform engine compression check 178 /80 2) 76 /80 3) 76 /80 4) 78 /80 5) 76 /80 6) 78 /80

Maintenance Release

The aircraft, airframe, engine, propeller, or appliance identified above was repaired and inspected in accordance with the 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 Certified Repair Station CRS# YYKR678L.

DATE: 10/28/2005

SIGNED:

Work Order: 00777

Kim Davidson
Certified Repair Station No. YYKR678L

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
10-360-ES6B
ENGINE S/N 357504
REG NO 747AY
WORK ORDER:
1025-03-2006



Executive Aircraft Maintenance, Corp.

1735 N.W. 51st Place
Fort Lauderdale, FL 33309
Phone: 9543515000

DATE: 3/17/2006
A/C TSN: 269.2
ENG TT: 269.2
HOBBS: 269.2

Engine Entries

(1) Repaired alternator field and battery wire as required. Functional check good.... (2) Drained oil, cut open filter, no contamination found. Installed new filter P/N CH48108-1 and added 8 quarts 100W Plus oil. Ran engine no leaks noted.

All work has been performed in accordance with the applicable manufacturer's maintenance instructions and functionally checked for proper operation. The item identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service.

DATE: 3/17/2006

SIGNED:

Henry Roe, A&P: 262042276

Work Order: 1025-03-2006

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:
10-360-ES6B
ENGINE S/N: 357504
REG. NO: 747AY
WORK ORDER:
2012-10-2006

T & R Aviation

4613 N. University Dr. #287
Coral Springs, FL 33067
Phone: 561-289-7180

DATE: 10/18/2006
A/C TSN: 282.9
ENG TT:
HOBBS: 282.9

Engine Entries

(2) Complied with 100 Hr / Annual Inspection IAW FAR 43 Appx D. Researched AD's through biweekly 2006-21.... (3) Complied with compression check. Results are as follows. #1 78/80 #2 76/80 #3 76/80 #4 76/80 #5 76/80 #6 75/80... (4) Drained oil, cut open filter, no contamination found. Installed new CH48108-1 filter and added 8 QTS Aeroshell 100W oil. Ran engine no leaks noted. Installed oil drain valve.... (12) Removed all fuel injectors, cleaned and reinstalled. Ops check good.

All work has been performed in accordance with applicable manufacturer's maintenance instructions, FAA regulations, and has been functionally checked for proper operation. I certify this aircraft/engine was inspected in accordance with a Annual inspection and was determined to be in airworthy condition.

DATE: 10/18/2006

SIGNED:

Ronald A. Anders, IA: 562633335

Work Order: 2012-10-2006

Printed by EBis 3 (datcomedia.com)

Engine Service and Maintenance Record

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

Total Time		Time Since Last Overhaul	
Hrs.	Min.	Hrs.	Min.
→			

ENGINE MODEL:
IO-360-ES6B
ENGINE S/N: 357504
REG. NO: 747AY
WORK ORDER:
2073-02-2007

T & R Aviation
4613 N. University Dr. #287
Coral Springs, FL 33067
Phone: 561-289-7180

DATE: 2/28/2007
A/C TSN: 309.9
ENG TT: ~~28~~
HOBBS: 309.9

Engine Entries

(1) Drained oil, cut open filter, no contamination found. Installed new CH48108-1 filter and added 8 Qts Aeroshell 100W50 Plus oil. Ran engine no leaks noted.

All work has been performed in accordance with the applicable manufacturer's maintenance instructions and functionally checked for proper operation. The item identified above was repaired and inspected in accordance with current FAA regulations and is approved for return to service.

DATE: 2/28/2007

SIGNED: 

Ronald A. Anders, IA: 562633335

Work Order: 2073-02-2007

Printed by EBis 3 (datcomedia.com)

Manufact: TCM	Total Time: 439.4	Hobbs: 439.4	Ser. No.: 357504	Reg: N747AY
	Model: IO360ES (6)			

ENGINE MAINTENANCE NOTES

1. PERFORM ANNUAL/100HR INSPECTION PER THE CIRRUS SR20 INSPECTION GUIDE
2. COMPRESSION CHECK: #1 70/80, #2 69/80, #3 69/80, #4 66/80, #5 74/80, #6 72/80
3. DRAINED OIL, REPLACED FILTER ELEMENT, INSPECTED OLD FILTER ELEMENT FOR METAL, NONE NOTED, SERVICED ENGINE WITH PHILLIPS 20W50 OIL
4. CLEAN ALL FUEL INJECTION NOZZLES
5. INSTALL NEW SPARK PLUGS, P/N# RHM38E
6. INSTALL NEW INTAKE AIR FILTER, P/N# BA-24

MAINTENANCE RELEASE

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY UNDER FAR 43 APPENDIX "D" ANNUAL/100HR INSPECTION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. # AY101807 DATE: 11/28/2007

SIGNATURE OF AUTHORIZED REPRESENTATIVE:

FOR: ADVANCED AIRCRAFT CENTER, INC. *Peter J. Lo Bello* PETER J. LO BELLO AP735430301A

ADVANCED AIRCRAFT CENTER, INC.
14300 SW 129TH STREET
MIAMI, FLORIDA 33186
PHONE # 305-259-8291

Date: 4/21/2008	Total Time: 508.4	Hobbs: 508.4	Ser. No.: 357504	Reg: N747AY
Manufact: TCM	Model: IO360ES (6)			

ENGINE MAINTENANCE NOTES

1. DRAINED OIL, REPLACED FILTER ELEMENT, INSPECTED OLD FILTER ELEMENT FOR METAL, NONE NOTED, SERVICED ENGINE WITH PHILLIPS 20W50 OIL

MAINTENANCE RELEASE

THE ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE UNDER WORK ORDER NO. # AY4708 DATE: 4/21/2008

SIGNATURE OF AUTHORIZED REPRESENTATIVE:

FOR: ADVANCED AIRCRAFT CENTER, INC. *Peter J. Lo Bello* PETER J. LO BELLO AP735430301A

Date	Total Time	Time Since Last Overhaul

Engine Service and Maintenance Record

Installations, Inspections, Airworthiness Directives, Special Inspections,

LEADING EDGE 
 AVIATION SERVICES, INC.
Tampa, FL



CIRRUS
 AUTHORIZED SERVICE CENTER

Date: 12/24/2008; Aircraft: N747AY; Type: SR-20; S/N: 1257; Hobbs: 576.6; Total Time: 576.6; Engine - Type: IO-360-ES (6), S/N: 357504, Time: 576.6

- Removed and replaced oil filter and installed CH48108-1. Cut open filter for inspection, no abnormal particles were found. Drained oil and collected sample, serviced with eight quarts of Phillips 20W50 oil.
- Installed new air filter element P/N BA-24.
- Complied with fuel set-up (TCM SID 97-3E).
- Compression test performed, #1 69/80, #3 68/80, #5 67/80, #2 66/80, #4 64/80, #6 60/80
- Removed and replaced damaged spark plug with new RHM38E.
- Verified AD compliance through Bi-weekly issue 2008-24
- Complied with SB 2X-71-10R1 (Oil breather line insulation sleeve installation) by installing kit # 70092-001.

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

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

LEADING EDGE

AVIATION SERVICES, INC.
Tampa, FL



CIRRUS
AUTHORIZED SERVICE CENTER

Date: 4/23/2009, Aircraft: N747AY; Type: SR-20; S/N: 1257; Hobbs: 676.5; Total Time: 676.5; Engine - Type: IO-360-ES (6), S/N: 357504, Time: 675.9, SMOH: 675.9

Complied with Cirrus 100 hour inspection. Performed operational check. Drained oil and took sample for oil analysis. Removed oil filter, cut open and inspected; no problems noted at this time. Installed new CH-48108-1 oil filter and serviced engine with 8 quarts of Phillips X/C 20W50. Performed compression check with the results as follows: 1/70, 3/64, 5/72, 2/62, 4/72, 6/62. Removed spark plugs, cleaned, inspected, gapped, tested and reinstalled. Timed magnetos to 24 degrees BTDC as per mfr specs. Removed and replaced fuel pump gasket P/N 653747. Cleaned corrosion from crankshaft flange, prepped and painted. Performed operational check. No problems noted at this time. Checked AD's through bi-weekly issue 2009-07. Reference TCM EMM.

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.

Chris Sampson  A&P 3254789
6582 Eureka Springs Rd. Tampa, FL 33610
Tampa Executive Airport (KTPX) 813 626 1515

LEADING EDGE

AVIATION SERVICES, INC.
Tampa, FL



CIRRUS
AUTHORIZED SERVICE CENTER

Date: 8/13/2009; Aircraft: N747AY; Type: CIRRUS; S/N: 1257; Hobbs: 686.2; Total Time: 686.2; Engine - Type: IO-360-ES (6), S/N: 357504, Time: 686.2, Last MOH: 686.2-7/01/2009, SMOH: 0.0

-Removed engine S/N 357504 from aircraft. Removed accessories and exterior equipment to allow for engine to be inspected by engine shop. Work performed by Robert Zurawski.

-Installed engine S/N 357504 following repair IAW Cirrus M.M. Repair completed by Zephyr Aircraft Engines inc. RS # VI4R597M on ZAE W.O 29115. Ops check OK. No defects noted at this time. Work performed by Robert Zurawski.

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

Brian Bills  A&P 3197850
6582 Eureka Springs Rd. Tampa, FL 33610
Tampa Executive Airport (KTPX) 813 626 1515

Engine Service and Maintenance Record

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

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward				

Date: July 1, 2009

Tach Time 686.2

T.T. 686.2

Model: IO-360-ES

S/N. 357504

ZAE W.O 29115

Engine disassembled for repair, for sudden stop inspection per TCM S.B.96-11A. Engine received with out the induction system, fuel system, magnetos, harness, spark plugs. All parts received were cleaned inspected, steel parts magnafluxed, crankcase inspected. Engine reassembled in accordance with TCM overhaul manual X30594A. Crankshaft overhauled by Rick Romans CRS#BE2R713K. Installed new main bearing M010, rod bearing ~~252~~, rod bolts, nuts, crank gear bolts, cam gear bolts, damper pins, counterweight bushing, counterweight plates & snap rings, nose seal, pressure spring inner & outer, gasket set, all bearing for starter adapter, lock tabs & keys. AD 97-26-17 done per TCM MSB96-10 by Rick Romans CRS#BE2R713K. Continuing time on engine. No other work, nor accessories done, at this time by this agency. A description of this repair is on file at this agency under W.O. 29115. The induction system, fuel system, magnetos, harness, spark plugs and any other engine items must be installed , by the installing agent.

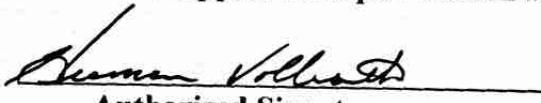
End of work done.

Zephyr Aircraft Engines Inc.

F.A.A. Approved Repair Station # VI4R597M

39320 B ave.

Zephyrhills, Florida 33542



813-788-3305

Authorized Signature

Zephyrhills, Florida 33542
813-788-3305

Robert Zurawski
Authorized Signature

LEADING EDGE 

AVIATION SERVICES, INC.

Tampa, FL



CIRRUS
AUTHORIZED SERVICE CENTER

Date: 10/29/2009; Aircraft: N747AY; Type: CIRRUS; S/N: 1257; Hobbs: ~~711~~ 757.8; Total Time: ~~711~~ 757.8; Engine - Type: IO-360-ES (6), S/N: 357504, Time: 772.0, Last MOH: 686.2-7/01/2009

Changed oil and filter. Cleaned finger screen. Filter cut open and inspected OK. Serviced with 8 QTs Phillips XC20W50 oil. Ground run and leak checked. Work performed by Robert Zurawski.

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.

Ed Speck *Ed Speck* A&P 2663498
6582 Eureka Springs Rd. Tampa, FL 33610
Tampa Executive Airport (KTPX) 813 626 1515

LEADING EDGE 

AVIATION SERVICES, INC.

Tampa, FL



CIRRUS
AUTHORIZED SERVICE CENTER

Date: 12/18/2009; Aircraft: N747AY; Type: CIRRUS; S/N: 1257; Hobbs: 778.0; Total Time: 778.0; Engine - Type: IO-360-ES (6), S/N: 357504, Time: 778.0, Last MOH: 686.2-7/01/2009

- Complied with Cirrus 100hr inspection checklist.
- Cleaned engine and performed run up. Inspected for leaks and general overall condition.
- Drained oil and serviced with 8 quarts of Philips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Collected oil sample for analysis. Installed cowling and performed run up.
- Complied with fuel set-up (TCM SID 97-3E).
- Removed cleaned gapped spark plugs verified correct mag timing L&R.
- Performed compression check 1/70,2/66,3/62,4/66,5/72,6/76.
- Inspected Fuel nozzles for leaks.

Engine Service and Maintenance Record

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

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward				

- Inspected electrical wiring for chafing and security.
- Inspected Fluid carrying hoses.
- Removed gascolator cleaned, inspected and reinstalled.
- Replaced air filter P/N BA-24.
- Verified AD compliance through Bi-weekly issue 2009-24.
- Tightened pilot side outboard elevator hinge as required.
- Tightened oil cooler vibration dampener as required.
- Replaced missing baffle fastener above oil cooler.
- Verified AD 2009-24-52 applicability. N/A by engine S/N & N/A by P/N of lifters.
- 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.

Ed Speck



A&P 2663498IA

6582 Eureka Springs Rd. Tampa, Fl 33610
Tampa Executive Airport (KTPX) 813 626 1515

Date: April 26, 2010

Tach Time 826.1

T.T. 826.1

Model: IO-360-ES

S/N. 357504

ZAE W.O 210063

Engine disassembled for repair, for #6 cylinder piston detonation. All parts received were cleaned inspected, steel parts magnafluxed, crankcase inspected. Engine reassembled in accordance with TCM overhaul manual X30594A. AD 97-26-17 done per TCM MSB96-10 by D&S Camshaft Corp. CRS#D13R133Y. Installed new main bearing M010, rod bearing, rod bolts, nuts, crank gear bolts, cam gear bolts, counterweight plates & snap rings, [12] re-ground hydr. Lifters, rod bushing, tach seal, nose seal, gasket set, oil filter, lock tabs & keys. #6 cylinder replaced with O/H unit using new piston pin, piston, ring set, exhaust valve, all springs, keepers & roto coil. Engine test ran. Continuing time on engine. No other work or accessories done, at this time by this agency. A description of this repair is on file at this agency under W.O. 210063.

End of work done.

Zephyr Aircraft Engines Inc.

39320 B ave.

Zephyrhills, Florida 33542

813-788-3305

F.A.A. Approved Repair Station # VI4R597M



Authorized Signature

LEADING EDGE

AVIATION SERVICES, INC.

Tampa, FL



CIRRUS
AUTHORIZED SERVICE CENTER

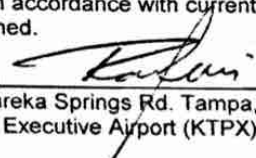
Date: 6/03/2010; Aircraft: N747AY; Type: CIRRUS; S/N: 1257; Hobbs: 826.1; Total Time: 826.1; Engine - Type: IO-360-ES (6), S/N: 357504, Time: 826.1

-Engine removed from N747AY and reinstalled following repair by Zephyr Aircraft Engines, Inc. WO# 210063 dated April 26, 2010.

-Serviced with 8 qts of Phillips XC20W-50 oil. Ground run and leak checked.

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.

Robert Zurawski



A&P 267433553

6582 Eureka Springs Rd. Tampa, FL 33610

Tampa Executive Airport (KTPX) 813 626 1515

Hrs.	Min.	Hrs.	Min.	Instructions, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
Brought Forward				

LEADING EDGE 
 AVIATION SERVICES, INC.
Tampa, FL



Date: 2/10/2011; Aircraft: N747AY; Type: CIRRUS; S/N: 1257; Hobbs: 859.2; Total Time: 859.2; Engine - Type: IO-360-ES (6); S/N: 357504.
 Time: 859.2

- Complied with Cirrus 100hr inspection checklist.
- Cleaned engine and performed run up. Inspected for leaks and general overall condition.
- Drained oil and serviced with 8 quarts of Phillips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Collected oil sample for analysis. Installed cowling and performed run up.
- Complied with fuel set-up (TCM SID 97-3E).
- Removed cleaned gapped spark plugs verified correct mag timing L&R.
- Performed compression check #1 68/80 #2 62/80 #3 64/80 #4 62/80 #5 72/80 #6 74/80.
- Inspected Fuel nozzles for leaks.
- Inspected electrical wiring for chafing and security.
- Inspected Fluid carrying hoses.
- Removed gascolator cleaned, inspected and reinstalled.
- Replaced air filter P/N BA-24.
- Verified AD compliance through Bi-weekly issue 2011-02.
- Performed post inspection operational check of aircraft systems - all working normal at this time.

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

Paul Stern  A&P 3078823IA
 6582 Eureka Springs Rd. Tampa, FL 33610
 Tampa Executive Airport (KTPX) 813 626 1515

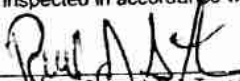
LEADING EDGE 
 AVIATION SERVICES, INC.
Tampa, FL



Date: 3/01/2012; Aircraft: N747AY; Type: CIRRUS; S/N: 1257; Hobbs: 888.9; Total Time: 888.9; Engine - Type: IO-360-ES (6); S/N: 357504.
 Time: 888.9

- Drained oil and serviced with 8 quarts of Phillips X/C 20W50. Removed and replaced oil filter, cut open oil filter for inspection. Collected oil sample for analysis. Installed cowling and performed run up.
- Removed and replaced air filter element with new PN BA-24.
- Compression Check #1 68/80 #2 70/80 #3 70/80 #4 64/80 #5 68/80 #6 72/80 MO44/80.
- Verified AD compliance through bi-weekly issue 2012-03.
 AD 2011-26-07 N/A by magneto SN.
- Complied with fuel set-up (TCM SID 97-3E).

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

Paul Stern  A&P 3078823IA
 6582 Eureka Springs Rd. Tampa, FL 33610

Engine Service and Maintenance Record

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

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
Brought Forward	→			

June 23rd 2012

N747AY CIRRUS SR 20 G1 S/N 1257

TT 908.9 Hrs Hobbs 908.9 Hrs

Continental IO 360 ES 6 S/N 357504

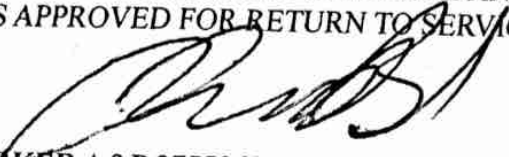
TT 908.9 Hrs Hobbs 908.9 Hrs

Hartzell PBHC-J2YF-1BF S/N EF312B

TT 908.9 Hrs Hobbs 908.9 Hrs

Removed cowling, adjusted fuel flows high, low and idle using TCM SID97-3E as a guide. Performed a dynamic propeller balance IAW FAA approved Chadwick Helmuth Document , initial IPS .517 reduced to .022 IOS by installation of balance weights on spinner bulkhead. Sealed numerous baffle airleaks. Leak check and ground run found satisfactory. Installed cowling. Flight check found satisfactory

THE AIRCRAFT, ENGINE, PROPELLER AND OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FAA AND IS APPROVED FOR RETURN TO SERVICE.



JIM BARKER A&P 2755069

AVIATION RESOURCES, LLC

Hangar (715) 822 5787

101 Airport Ave Hangar 7

Cell (715) 491 1303

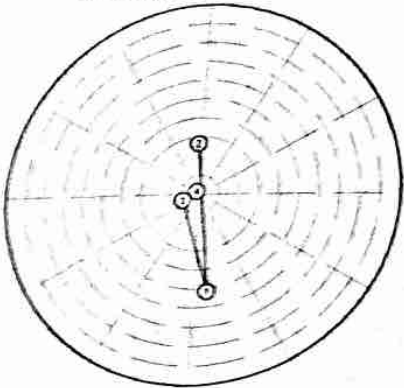
Cumberland, WI 54829

Email jim@aviationvibes.com

www.aviationvibes.com

ENGINE DYNAMICALLY BALANCED

— POLAR PLOT - 1.0 IN/S FS —



Operator Comments

Performed a dynamic balance IAW FAA approved Hartzell SI #115 and Chadwick Helmuth Doc AW 9511-2 dated 12 June 1990 using DSS Microvib II equipment and application note AN-MV2 Prop Rev 001 July 2003. Initial IP/S @ 2578 rpm reduced to 0.22 IP/S @ 2577 rpm by installation of AN hardware on spinner rear bulkhead. Adjusted high Fuel Flow IAW TCM Service documents as guide. Jim Barker A&P 2755069 Aviation Resources LLC Hangar 7 101 Airport Ave Cumberland, WI 54829 Hangar 715 822 5787 Cell 715 491 1303 email jim@aviationvibes.com www.aviationvibes.com

N747AY Cirrus SR 20 G1 1257 908.9 Hrs
Cont/Hart 357504

Front

MicroVib II SN:1173 Cal:03/29/2012

Initial: 0.517 IN/S @ 2577.8 RPM Final: 0.022 IN/S @ 2576.6 RPM

Oper:

Date 06/22/2012

Jim Barker 2755069

MYERS AVIATION INC. - OSHKOSH, WI. ENGINE LOG ENTRY - N747AY

August 28, 2012 Hobbs 916.5

Installed JPI EGT-701 Temperature Indicator according to manufacturer's instructions—see 337 for details. Drained oil and removed filter for inspection – OK. Serviced engine with Sgts Exxon Elite 20W50 and new AA48108-2 filter. Washed down engine and ground run for leaks and performance.

Steve J. Myers AP35210971A
Myers Aviation, Inc.

Steve J Myers

ENGINE LOG ENTRY - N747AY

October 16, 2012 Hobbs 720.5

Removed and replaced all 12 sparkplugs with URHM38E sparkplugs.

Nathan Smith

Nathan Smith A&P 3523790

Nov 15, 2012 933.8

Installed Reiff Standard Preheat System according to Manufacturer's guidelines. -End-

Nathan Smith
A&P 3523790

Date: 3/25/2013; Aircraft: N747AY; Type: CIRRUS SR20; S/N: 1257; Hobbs: 944.70; Total Time: 944.70; Engine - Type: IO-360-ES6, S/N: 357504, Time: 944.70; Prop - Type: BHC-J2YF-1BF, S/N: EF312B, Time: 944.70
*** Engine Work ***

Completed an Annual inspection in accordance with FAR 43, Appendix D. Changed oil and filter p/n CH48108-1, took sample, cut filter, no metal noted, serviced engine with 7 qts. 20W50 X/C Phillips. Compression test as follows: #1) 78/80, #2) 75/80, #3) 76/80, #4) 75/80, #5) 77/80, #6) 78/80. Master Orifice of the day 68/80. Performed borescope inspection per TCM SB03-3, no defects noted.

Cleaned, gapped and tested spark plugs. Checked mag to engine timing. Checked engine control travels and lubricated. Replaced #6, #4 and #2 cylinders exhaust gaskets p/n 630365 with new. Replaced vacuum pump drive seal p/n 25102 with new. Replaced vacuum pump inlet and outlet hoses MIL-H-6000 hose with new. Ground run for operational and leak checks good.

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

Doug Seibel
A&P389765035 IA

Doug Seibel IA389765035

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



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

Apr-11-13 Hobbs 957 Act 957 ET 957

REMOVED STARTER ADAPTER OUT FOR O/H.
O/H BY POPLAR GROVE AIRCRAFTIVE W/O 5433
REINSTALLED ADAPTER OPS CHECK OK.
Al Thigpen 522199032 A&P

Brought Forward → Modifications and Service Bulletins

1. Approving National Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 5433	
4. Organization Name and Address: Poplar Grove Airmotive, Inc 11619 Route 76 Poplar Grove, IL 61065		5. Work Order/Contract/Invoice Number: 5433				6. CRS: YYBR664L	
6. Item:	7. Description:	8. Part Number:	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
1	Starter Adapter	646220A53	N/A	1	None	Overhauled	

13. Remarks:
Disassembled, cleaned, inspected, repaired and assembled in accordance with TCM overhaul manual P/N X30594A dated 6/1992.
Installed Standard size clutch spring and new bearings.

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 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.	
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15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature: <i>Joe Naebe</i>	21. Approval Certificate No.: YYBR664L
17. Name (Typed or Printed):	18. Date (m/d/y):	22. Name (Typed or Printed): Joe Naebe	22. Date (m/d/y): Apr. 5, 2013

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 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.

N747AY Model: Cirrus SR20 S/N: 1257 Hobbs: 1004.7 ACTT: 1004.7 Date: July-11-2013
Continental IO360-E56 Ser# 357504 Eng TTSN: 1004.7
Hartzell Model BHC-J2YF-1BF Ser# EF312B Prop TSO: 318.5
Bun Air W/O 12049

Brouc

Performed a 50hr Inspection.

- Changed oil and filter. Installed 7 qts Phillips 20W50XC oil and an AA48108-2 filter. An oil sample was taken at this time.
 - Cleaned, tested and rotated the spark plugs.
 - Washed down engine and firewall.
- Run up and leak check good. All AD'S thru this date complied with.

Kirk Knepper  A&P522199032

N747AY Model: Cirrus SR20 S/N: 1257 Hobbs: 1050.8 ACTT: 1050.8 Date: Sept-19-2013
Continental IO360-E56 Ser# 357504 Eng TTSN: 1050.8
Hartzell Model BHC-J2YF-1BF Ser# EF312B Prop TSO: 364.6
Bun Air W/O 12049

Performed a 50hr Inspection.

- Changed oil and filter. Installed 7 qts Phillips 20W50XC oil and an AA48108-2 filter. An oil sample was taken at this time.
 - Cleaned, tested and rotated the spark plugs.
 - Replaced the Tach sensor. Installed P/N12323-001 Ser# 2250.
 - Washed down engine and firewall.
- Run up and leak check good. All AD'S thru this date complied with.

Kirk Knepper  A&P522199032

N747AY Model: Cirrus SR20 S/N: 1257 Hobbs: 1099.5 ACTT: 1099.5 March- 18-2014
Continental IO360-ES6 Ser# 357504 Eng TTSN: 1099.5
Hartzell Model BHC-J2YF-1BF Ser# EF312B Prop TSO: 413.6
Bun Air W/O 12049

Performed an Annual Inspection at this time.

- Changed oil and filter. Installed 7 qts Phillips 20W50XC oil and an AA48108-2 filter. An oil sample was taken at this time.
- Cut open the oil filter, no metal noted.
- Compression test over 80 psi #1-70, #2-62, #3-70, #4-68, #5-65, #6-78.
- Mag timing checked.
- Checked travel of the engine controls and lubricated.
- Cleaned, tested and rotated the spark plugs.
- Washed down engine and firewall.

All AD's C/W thru this date. Run up and leak check good. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition at this time.

Kirk Knepper *[Signature]* A&P522199032IA

CIRRUS SR20 N747AY S/N:1257 DATE: 7-14-14
HOBBS: 1176.3 BUN AIR W/O:12197

DRAINED ENGINE OIL AND REMOVED OIL FILTER AND CUT OPEN. NDN. INSTALLED NEW OIL FILTER P/N AA48108-2 AND SERVICED ENGINE WITH PHILLIPS 20W-50.

REMOVED JPI EDM 700 TO SEND OUT FOR REPAIR. INSTALLED REBUILT JPI EDM700 S/N 33143 IAW CURRENT AND APPROVED TECHNICAL DATA.

TIMOTHY GRIFFITH *[Signature]* A&P 3611291

CIRRUS SR20 N747AY S/N:1257 DATE: 9-25-14
 HOBBS: 1227.3 BUN AIR W/O:12220

Maintenance Record

DRAINED ENGINE OIL AND REMOVED OIL FILTER AND CUT OPEN. NDN.
 INSTALLED NEW OIL FILTER P/N AA48108-2 AND SERVICED ENGINE WITH
 7 QUARTS OF PHILLIPS 20W-50.

ness Directives, Special Inspections,

PERFORMED SOHR INSPECTION IAW CIRRUS SR20 MM.

TIMOTHY GRIFFITH *Timothy Griffith* A&P 3611291

Date	Total Hrs.
Brought Forward	

N747AY Model: Cirrus SR20 S/N: 1257 Hobbs:1267.0 ACTT: 1267.0 March- 12-2015
 Continental IO360-ES6 Ser# 357504 Eng TTSN: 1267.0
 Hartzell Model BHC-J2YF-1BF Ser# EF312B Prop TSO: 581.1
 Bun Air W/O 12283

Performed an Annual Inspection at this time.

- Changed oil and filter. Installed 8 qts Phillips 20W50XC oil and an AA48108-2 filter. An oil sample was taken at this time.
- Cut open the oil filter, no metal noted.
- Compression test over 80 psi #1-75, #2-60, #3-52, #4-62, #5-60, #6-75.
- Mag timing checked.
- Checked travel of the engine controls and lubricated.
- Cleaned, tested and rotated the spark plugs.
- Washed down engine and firewall.
- Repaired eng baffle. R/H side upper baffle and L/H rear top baffle.

All AD's C/W thru this date. Run up and leak check good. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition at this time.

Kirk Knepper *Kirk Knepper* A&P522199032IA

BunAir

MAKE: CONTINENTAL
REGISTRATION: N747AY
AFTT: 1405.9
ETT: 1405.9

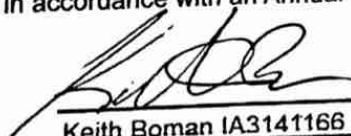
697 Belden Rd, Bedford, Pa 15522
PH:800-296-8171 FAX:814-623-8173
MODEL: IO-360ES6
SERIAL NUMBER: 357504
HOBBS: 1405.9
TSN: 1405.9

DESCRIPTION OF WORK PERFORMED

- 1 Performed an Annual Inspection In Accordance with FAR 43 Appendix D
 - 2 Differential Compression Results: 72/80 cyl 1, 62/80 cyl 2, 60/80 cyl 3, 70/80 cyl 4, 72/80 cyl 5, 74/80 cyl 6
 - 3 Drained oil and cut filter for inspection - no defects noted at this time
 - 4 Serviced engine with 8qts Phillips 20W50XC and installed new AA48108-2
 - 5 Serviced spark plugs: Cleaned, Gapped, Tested, and Reinstalled
 - 6 Removed Birds Nest from between cylinders #1 and #3
 - 7 Repositioned Oil cooler baffle seal for proper fit
 - 8 Replaced LH baffle tie rod spring
 - 9 Replaced RH baffle with new Cirrus part
 - 10 Replaced Alternator Belt and Alternator Bracket - Adjusted Belt Tension IAW Cirrus Maintenance Manual
 - 11 Replaced Oil Cooler with O/H exchange PN 20458A SN L98-3263-87 and Oil Cooler Shoe/Adjusted per MM
 - 12 Repositioned Cylinders #2 & #4 inner cylinder baffle upper brace in cylinder fins
 - 13 Replaced Fuel Pump gasket due to heavy oil seep
 - 14 Replaced all 12 rocker cover gaskets
 - 15 Reworked engine baffle around oil filler neck to prevent chafing - replaced dipstick grommet
 - 16 AD's checked through this date - no new AD's and no recurring AD's due at this time
- I certify that this engine has been inspected in accordance with an Annual Inspection and found to be in airworthy condition.

4/6/16

DATE


Keith Boman IA3141166

3141166 IA