

## ENGINE MAINTENANCE LOG

DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
19 <u>90</u>			
June 30	4560		Removed muffler (cracked) & reinstalled rebuilt muffler from Pawley Aviation (see yellow tag @ end of flw log) <i>JB Beyer</i> AP 323268764
8/11	4620	SMOTT: 1316.36	Changed oil (Aeroshell 50) & filter, checked engine, Tightened hoses on intake system. Changed spark plugs - installed overhauled plugs <i>JB Beyer</i> AP 323269764
10/1/90	4668.55	SMOTT 1364.91	Propeller Total 4457.22, SMOTT 1162.22 Performed 100 hr. inspection & annual. Checked all fuel & oil lines/screens. Checked all accessories for condition & security. Checked mag timing, checked tension on alt. belt. Checked & lubed all controls. Checked & tightened all hoses. Performed compression check: #1 - 79/80, #2 - 79/80, #3 - 80/80, #4 - 79/80, #5 - 78/80, #6 79/80. I certify that the powerplant & prop have been inspected in accordance with
Checked ADS or well			I certify this <u>Engine</u> has been inspected in accordance with a <u>Annual</u> inspection and found to be in airworthy condition.

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19 <u>90</u>			
10/14	4693		Changed oil & filter (Aeroshell 15x50) (checked upper half of engine & backing plate for prop spinner <sup>AP 323294764</sup> <del>AP 323294764</del> )
		4759.8	
4/11/91		TACH 4759.8	51000 HRS
			ENGINE MAJOR OVERHAUL THIS DATE. SEE ATTACHED SHEET FOR REPAIRS & O.H. OF COMPONENTS, ALSO RETURN TO SERVICE THIS ATTACHED TO READ PAGES OF THIS LOGBOOK. ENGINE O.H. IN ACCORDANCE WITH CONTINENTAL O.H. MANUAL & TEST RUN IN ACCORDANCE WITH CERMICROME RUN-IN PROCEDURE. TEST FLY AIRCRAFT CHECKS OK.
			Frank Chadell 1A221246026

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

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19__		

Parts:

Qty.	Part number	Description
	6 SA646985	Valve seals
	12 SA639292	Cotter pins
	4 SA638172	Magneto bushings
	24 SA24802	Valve keepers
	12 SA539740	Rocker arm shafts
	1 SA641250	Crank seal
	12 SA628488	Lifters
	1 537401-3 M10	Bearing set
	12 SA630826 M10	Rod bearings
	1 SA4701-A2	Ring set - 6 cylinder
	6 SA643873	Exhaust valves
	6 SA539467	Piston pins
	1 SA536092-A10	Major O.H. gasket set
	6 SA640518	Pistons
	12 SA626140	Rod bolt nuts
	12 SA35972	Rod bolts
	1 632653	Mag gear adapter plate
	1 632563	Oil pump housing
	1	Oil filter
	1	Vernier throttle control

**Outside Labor:**

Cylinders - 6 -Cermicrome complete stud assembly  
by Engine Components

Prop - Overhaul McCauley prop in accordance with  
McCauley Manual 720415 by Kai-Aero

Oil cooler - r-ray and flush by Southwest Cooler  
Service

Starter adapter - overhaul, cut shaft and gear  
M.015 by Custom Airotive

Crankcases -Repair crack in upper rear studhole,  
#4 cylinder. Cut mating surfaces, resize  
bores to factory limits by Divco

Crankshaft - Magnaflux, ck dimensions, grind  
rod and main journals M010, renitride,  
plate flange, certify by Rick Romans Inc.  
Counter weights - 2 - rebush by Rick Romans Inc.  
Crankshaft - install counterweight blade bush-  
ings, inst cuts on crank by Rick Romans  
Crankshaft - regrind by Rick Romans Inc.

Rods - 6 - rebush, ck alignment by Rick Romans

Rocker arms - 12 - rebush, relace by Rick Romans

Misc. steel gears - magnaflux by Rick Romans Inc

*Rick Romans*

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DATE	ACCUMULATED TOTALS	
	Hours	10ths
19 91		
5/5	4768.	
	4791.2	

8.2 SMOH. Changed oil & filter - Phillips 20x50 XC

4791.2 31.4 SMOH

COMPRESSION TESTS #1 <sup>75</sup>/<sub>80</sub>, #2 <sup>75</sup>/<sub>80</sub>, #3 <sup>76</sup>/<sub>80</sub>, #4 <sup>78</sup>/<sub>80</sub>, #5 <sup>75</sup>/<sub>80</sub>, #6 <sup>78</sup>/<sub>80</sub>  
 AD91-19-03 CHAMPION OIL FILTER IS N/A B/ DATE CODE ON FILTER. (SPECIAL ADVANCED AD NOTE)  
 AD NOTES RESEARCHED THRU ISSUE 91-18

Date 10-3-91 A/D Time 4791.2 End Time 31.4 W.D.# 4640-156

I certify that this aircraft has been inspected in accordance with the requirements of ANNUAL inspection and was determined to be airworthy, and approved for return to service. Signed W. Croller TO:

AERO SERVICES - REPAIR STATION # JY1 8201K

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

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	Hours	10ths	
1992			
6/2	4822	62	hrs SMOH - Changed oil & filter - Phillips 20x50 XC Installed "quick drain" to drain oil easier. Checked engine area. All OK. J. B. Bryan A&E 323269764
9-10-92	TACH 4838.1	78.3	SMOH 78.3 S. PROP 9H COMPRESSION TEST: #1 $\frac{75}{80}$ , #2 $\frac{72}{80}$ , #3 $\frac{76}{80}$ , #4 $\frac{76}{80}$ , #5 $\frac{75}{80}$ , #6 $\frac{75}{80}$ CLEANED SPARK PLUGS. AD NOTES RESEARCHED THRU ISSUE 92-17.

Date 9-10-92 A/C Time 4838.1 Eng Time 78.3 W.O.# 4040-467  
 I certify that this aircraft has been inspected in accordance with a  
ANNUAL inspection and was determined to be airworthy and  
 approved for return to service. Signed William G. Geller for  
 AERO SERVICES - REPAIR STATION # JY1 8 261K

# ENGINE MAINTENANCE LOG

Description of Inspection, Repair and Overhaul

and overhaul,  
either the FAA

DATE

19

KAL-AERO, INC. FAA CRS EBVR 450D

## SERVICEABLE PART/MAINTENANCE RELEASE

OWNER N# 498 EK

WORK ORDER 07948

PART DESC. Carburetor

MODEL NO. MA-4-5

PART NO. 10-4893

NEW

OVHL

SERIAL NO. BD-0-609

REPAIRED

BENCH CHECK

REMARKS: Replaced needle & seat valve assem.

to Float per Facit Aerospace manual

# Pages - 2

This signed tag is an official document and shall be kept with the AIRCRAFT'S OFFICIAL HISTORICAL RECORDS. The component or appliance identified above was inspected and/or repaired in accordance with current FEDERAL AVIATION ADMINISTRATION REGULATIONS and that work performed is approved for return to service. Details of the work performed are on file at this agency. The mechanic installing this part must C/W FAR 43.9.

DATE

9-23-92

SIGNED

Larry Laforte

FOR

KAL-AERO, INC. EBVR 450D

## ENGINE MAINTENANCE LOG

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s and overhaul,  
either the FAA

DATE

19

KAL-AERO, INC.    FAA    CRS    EBVR 450D  
**SERVICEABLE PART/MAINTENANCE RELEASE**

OWNER N# 498 EK

WORK ORDER 07948

PART DESC. Carburetor

MODEL NO. MA-4-5

PART NO. 10-4893

NEW

OVHL

SERIAL NO. BD-0-609

REPAIRED

BENCH CHECK

REMARKS: Replaced needle & seat valve assembly  
 - F float per Facit Aerospace manual  
 # Facit-2

This signed tag is an official document and shall be kept with the AIRCRAFT'S OFFICIAL HISTORICAL RECORDS. The component or appliance identified above was inspected and/or repaired in accordance with current FEDERAL AVIATION ADMINISTRATION REGULATIONS and that work performed is approved for return to service. Details of the work performed are on file at this agency. The mechanic installing this part must C/W FAR 43.9.

DATE 9-23-92

SIGNED Larry Laforte FOR

KAL-AERO, INC. EBVR 450D

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	Hours	10ths	
19 <u>93</u>			
7/25	4860		100 SMOH - Changed oil & filter Phillips 20x50 <del>50</del> Checked engine area carefully W.B. Began 323208764 A/P
10-543	4863.6		AD NOTE 93-05-06 N/A, BENDIX IGN SWITCH IS INSTALLED. AD 93-08-17 OIL PICK UP TUBE N/A THIS ENGINE. COMPRESSION TEST: #1 $\frac{76}{80}$ , #2 $\frac{74}{80}$ , #3 $\frac{75}{80}$ , #4 $\frac{76}{80}$ , #5 $\frac{76}{80}$ , #6 $\frac{75}{80}$ . TORQUED LOOSE NUT ON OIL FILTER ADAPTER. REPLACED O-RING SEAL ON OIL DIPSTICK.
I certify this <u>Engine</u> has been inspected in accordance with a <u>Annual</u> inspection and found to be in airworthy condition.			I certify that this Aircraft or engine has been inspected in accordance with a <u>100 HOUR</u> inspection and found to be air worthy for return to service.
Total time <u>4863.6</u> hours			Date <u>10-543</u> Signed <u>William Grell</u> A&P 379325025
<u>Richard Duchow</u>			



DATE	ACCUMULATED TOTALS		Description of Inspection, Repair and Overhaul Enter here general data with reference to inspections, alterations and repairs and overhaul. ALL DATA must be endorsed with the name, rating and certificate number of either the FAA Repair Station or the mechanic.
	Hours	10ths	
12-17-94	4899.3	TACH	<p>CHANGED OIL &amp; FILTER, SERVICED WITH PHILLIPS 20W 50 OIL. INSPECTED THREADS ON SHANK OF OIL FILTER ADAPTER AND A/C HOUSING INTERNAL THREADS PER CESSNA SER 93-1-RIP. COMPRESSION TEST: #1 <math>\frac{79}{80}</math>, #2 <math>\frac{74}{80}</math>, #3 <math>\frac{75}{80}</math>, #4 <math>\frac{68}{80}</math>, #5 <math>\frac{45}{80}</math>, #6 <math>\frac{75}{80}</math>.</p> <p>I certify that this Aircraft or engine has been in accordance with a <u>ANNUAL</u> inspection and found to be air worthy for return to service.</p> <p>Total time <u>4899.3</u> hours</p> <p>Date <u>12-17-94</u> Signed <u>William Guelch</u> A&amp;P 3793250251A</p>

CARRY ACCUMULATED TOTALS FORWARD TO TOP OF NEXT PAGE

**Description of Inspection, Repair and Overhaul**

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 Repair Station or the mechanic.

DATE	ACCUMULATED TOTALS	
	Hours	10ths
12-17-94	4899.3	TACH

CHANGED OIL & FILTER, SERVICED WITH PHILLIPS 20W 50 OIL. INSPECTED THREADS ON SHANK OF OIL FILTER ADAPTER AND A/C HOUSING INTERNAL THREADS PER CESSNA SER 93-1-RIP. COMPRESSION TEST: #1  $\frac{79}{80}$ , #2  $\frac{74}{80}$ , #3  $\frac{75}{80}$ , #4  $\frac{68}{80}$ , #5  $\frac{75}{80}$ , #6  $\frac{75}{80}$ .

I certify that this Aircraft or engine has been inspected in accordance with a ANNUAL inspection and found to be air worthy for return to service.

Total time 4899.3 hours

Date 12-17-94 Signed William G. [Signature]

A#P 3793250251A

Enter here general data with reference to inspections, etc.  
ALL DATA must be endorsed with the name, rating and certificate number of either the FAA  
Repair Station or the mechanic.

ths

ISMOH 190.2

CHANGED OIL WITH 13 QTS AEROSHELL 65 MINERAL OIL AND CH48110 OIL FILTER. REMOVED #4 CYLINDER FOR  
REPAIR AND REINSTALLED REPAIRED CYLINDER. HOT COMPRESSION CHECK-#1-78/80, #2-74/80, #3-77/80,  
#4-74/80, #5-75/80, #6-72/80. CLEANED CORROSION ON FUEL PRIMER DISTRIBUTION MANIFOLD FITTINGS.  
TIGHTENED ALTERNATOR BELT. REPLACED ALL PRIMER LINE GROMMETS. REPLACED ALL IGNITION LEAD  
GROMMETS. CLEANED PRIMER FUEL NOZZLES. REPLACED ANTI-CHAFE HOSE ON PROP CONTROL CABLE.  
REROUTED ALTERNATOR WIRING HARNESS. CLEANED GASCOLATOR SCREEN AND REPLACED 'O' RING. REPLACED  
OIL SEPERATOR HOSE STANDOFF. CLEANED, GAPPED, CHECKED AND ROTATED SPARK PLUGS. REPAIRED  
BAFFLING ON #6 CYLINDER. REPLACED ALL CABIN HEAT SCAT TUBING. RETIMED MAGNETOS TO 22 DEGREES  
BEFORE TDC.

*David A. Willett*  
DAVID A. WILLETT A&P #371727167

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 Repair Station or the mechanic.

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	Hours	10ths	
1996			
02/02/96	ACTT 4950.0		T.S.MOH. 190.2. Annual inspection done in accordance with manufacturers Maint. Manual. Work performed is on L&W work order 0414. I certify that this aircraft engine has been inspected in accordance with a annual inspection and was determined to be in airworthy condition. <u>R. Koppke</u> AP 311526287 IA
04/21	4963.66		changed oil filter ch 48110 and 11 quarts sea shell 80W. <u>Manda A. Shellett</u> P 371727767

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19 <u>97</u>	5102	0

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 Repair Station or the mechanic.

Comp CK #1 68/80 #2 66/80 #3 74/80 #4 67/80 #5 70/80 #6 70/80  
 REMOVED #6 CYL. FOR REPAIR REPLACED EXH GUIDE GRIND  
 VALVE TO SEAT. WORK DONE BY AIRCRAFT ENGINE SERVICE  
 INSTALLED NEW RING SET #649226CP. CLEANED & GAPPED  
 SPARK PLUGS. CHECKED MAG TIMING. REPLACED OIL  
 FILTER SERVICED WITH 11 QTS AEROSHELL #80 MINERAL  
 ALL WORK DONE I.A.W. CESSNA'S SERVICE MANUAL.  
 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I.A.W.  
 A 100HR INSPECTION AND WAS DETERMINED TO BE IN  
 AIRWORTHY CONDITION.

*Gregory E. Smith*

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19 <u>  </u>			
10/5/97	Tach	5111.23	<p>R&amp;R STARTER DRIVE ASSY. REPLACED THE FOLLOWING PARTS X13041 &amp; 534685 BEARINGS, 534980 SLEEVE MS 9021-038, MS 29561-012 O-RING, 534938 SEAL, SA537749 SA537745 GASKETS.</p> <p style="text-align: right;"><i>Gregory E. Smith 3695444801A</i></p>

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19			
5/12/00			Chg-950 oil & coated cylinders for non-usage
5/20/02			Lubricated all cys w/ fogging oil. SPRAYED INSIDE ENG through o.i filler
2003			
6-29	5181	46	Aircraft Prepped for service. Annual inspection complete this date Compression ck mid 70's all sparkplugs cleaned and chkd/gapped Oil screen ck & cleaned, new oil filter installed CH 48110 new Bracket air filter installed dressed minor nicks @ both prop blades Drained and flushed carb bowl accelerator screen chkd and cleaned

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			<p>engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.</p> <p style="text-align: right;">Steph - 2</p>
8-12-03	5190.8		<p>TACH REPLACED LEFT MAG + INSTALLED 22° BTDC. PULLEY TIMING MARK MAG DROP OK: L:110</p>
<p>Avantgarde Aviation, Inc. Oakland-Pontiac Airport 6250 11 Row</p>			

### WARNING

- When installing drive gear or driver onto magneto, torque nut provided to 120 to 320 inch lbs.
- Use only the installation hardware provided.
- Secure nut with appropriate cotter pin.

### FAA-PMA Approved

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in Unison Industries' L-1318 Document in the F-1100 Master Service Manual. For LASAR® Magnetos, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No. 6310

Magneto Serial No. 02110829

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2003 Sept 5	5200	5	Installed Skytec starter per Maintenance instructions. P/N# C-ST1 SN# C2-409908. Name: [Signature] P# 3717727767 Note Weight & Balance adj.
Sept 8-2003			changed engine oil changed oil filter tech time 5206

## FAA/PMA APPROVED

THIS STARTER WAS MANUFACTURED FROM ALL NEW COMPONENTS IN ACCORDANCE WITH FAR 21.303(h) UNDER AUTHORITY OF PMA NO. PQ852SW AND IS AIRWORTHY. THIS STARTER IS FAA/PMA APPROVED AND IS ELIGIBLE FOR INSTALLATION ON CONTINENTAL O-300-D, O-300-E, IO-360, TSIO-360, O-470 & IO-470 SERIES ENGINES. ENTER STARTER MODEL, SERIAL AND DATE OF INSTALLATION. ATTACH THIS TAG TO ENGINE LOGBOOK.

SKY-TEC MODEL C12 ST1 SERIAL C2-409908  
DATE OF INSTALLATION 5 Sept 03

CARRY ACCUMULATED TOTALS TO...