

R/A FNL



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TP3910E

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

Second Edition

January 1987

Canada

ENGINE SERVICE AND

[illegible]

ENGINE SERVICE AND

MAINTENANCE RECORD

8

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

DATE: 10-28-98 HOBBS: 2549.0 AIRCRAFT S/N 501
CONTINENTAL TSIO-520-NB ENGINE S/N 276672-R
RIGHT ENGINE SMOH 30.9

Serviced enging with 12 quarts Aeroshell 15W50 oil and CH48108 oil filter. Checked magneto to engine timing. C/W AD 75-23-08R5 by visual inspection of exhaust. Cylinder compressions: 1 74, 2 75, 3 75, 4 74, 5 76, 6 76/80. Adjusted propeller govoner and linkage to match left engine.-END-

Loni Bangert
AP524395515

FIREWALL FORWARD INC.
5212 CESSNA DRIVE.
LOVELAND, CO. 80538
800-444-0556

4-23-99 Hobbs: 2600.6

Serviced engine w/ 12 qt Aeroshell 15W-50 oil and CH48108 oil filter. Filter checked and found OK. Complied w/ AD 75-23-08 R5 Exh system. C/W IAW AD by visual insp. Checked OK at this time.

William J. Russell Jr.
AP 242928525

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY

TOTAL SINCE MFG.

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

8-18-99 — Changed oil and filter. Serviced with Aeroshell 15W-50 oil and new CH48108 oil filter. Old filter checked and was found OK. C/W AD 75-23-08 R5 Exh system IAW AD by visual inspection. All checked OK at this time. End.

William J. Russell Jr.
AP 242928525

10-1-99 — Compression: #1 72/80 #2 74/80 #3 78/80 #4 78/80 #5 78/80 #6 78/80
Hobbs: 2666.0 C/W a 100 hr insp. IAW 340H 100 hr/Annual Insp. Sheet & Cont. Service Manual. Removed and inspected OIL filter. OK. Installed new CH48108 oil filter. Check mag timing. OK. Removed, clean & Reinstalled injector metering fuel filter. Clean, gap & Reinstalled spark plugs. Checked plug wires OK. Inspected all hoses and found OK. Applied noise muffle on waste gate. Rebed all controls. Installed new OH Valve Pump #W442CW #W07641 OK'd by RSVN4K688M on WD# 30771 dated 9-30-98. C/W the following AD's: AD 75-23-08 R5 Exhaust system. C/W IAW AD para 1(a). No cracks found at this time. Next due: 2716.0 Hrs.
AD 97-26-17 Crankshaft Fatigue cracks. Para (b) PCW. AD 98-17-11 Crankshaft N/A by STC not installed. AD 98-24-14 Exhaust Leaks. N/A by no WYE tubes replaced during time frame. AD 99-19-01 Crankshaft Failure. N/A by OH date. AD 98-01-08 Exh. Roller Rocker Arm. N/A by not installed. AD 99-07-17 Crankshaft Failure. N/A by OH date. All AD's complied w/ to this date. End.

"I certify that this Engine has been inspected in accordance with an 100hr/Annual inspection and was determined to be in airworthy condition."

William J. Russell Jr.
AP 242928525

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

RIGHT

ENGINE SERVICE AND

MAINTENANCE RECORD

7

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	

BROUGHT
FORWARD

8/07/98 HOBBS 2508.7
CHANGED OIL & FILTER. ADDED 12QTS Aeroshell 15W50
OIL. CUT OPEN OIL FILTER. CHECKED FOR CONTAMINATION
FOUND SATISFACTORY. PERFORMED DIFF COMP TEST
PLAN WITH T.C.M. SBM 84-15. #180 #280 #380 #480
#580 #680. FOUND SOME BLOW BY BY EXHAUST VALVES
ENGINE IS NOT APPROVED FOR RETURN TO SERVICE. GROUND
PLAN TO CHECK FOR OIL LEAKS. FOUND SATISFACTORY.
A&P 220781484

Aviation Consultants of America, Inc.
135 Green Oaks Lane
Danville, VA 24540

DATE: 9-24-98 HOBBS: 2518.1 ENGINE S/N: 276672-R
TIME SINCE FACTORY REMAN: 1329.3 SMOH: 000.0
CONTINENTAL TSIO-520-NB RIGHT ENGINE
ENGINE MAJOR OVERHAUL

Completed engine major overhaul this date in accordance with Continental overhaul manual X30574A, parts manual X30580A and all applicable service bulletins. This engine has been overhauled to factory new fits & limits. Crankcase overhauled/certified, crankshaft ground M010 mains/polished STD rods/certified, connecting rods align new Superior Air Parts assembly, camshaft replaced with bored, and cylinders replaced with new Superior Air Parts Millennium complete assemblies. Accessories overhauled or exchanged as follows: Fuel injection system, fuel pump, magnetos, starter, alternator, new ignition harness, new spark plugs, tach generator, oil cooler, turbocharger, controller, wastegate, and P.R.V. Engine modified by the installation of GAMI injector nozzles per STC# SE09289SC. Serviced engine with 50wt. Aeroshell non-detergent oil. Engine test flight operational and leak check satisfactory. This engine is approved for return to service. All maintenance release tags and list of C/W A.D.'s in back of logbook for complete details concerning this overhaul, refer to Work Order #7997 on file at this overhaul facility. END.

Donald D. Mumford
A&P523801911

FIREWALL FORWARD, INC.
5212 CESSNA DR.
LOVELAND, CO. 80538
970-669-6185

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SINCE MFG.REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

DATE: 9-24-98 HOBBS: 2518.1 AIRCRAFT S/N: 340A0501
CONTINENTAL TSIO-520-NB ENGINE S/N: 276672-R
TIME SINCE FACTORY REMAN: 1329.3 SMOH: 000.0
ENGINE MAJOR OVERHAUL RIGHT ENGINE

Completed removal and installation of engine this date to facilitate engine major overhaul. Engine installed using new oil and fuel hoses and shock mounts. Engine modified by the installation of turbo GAMI injectors per STC# SE09289SC and a Shadin Fuel Flow monitoring system per STC# SA544GL and SE444GL. (reference 337's this date). Serviced engine with 12 qts. Aeroshell 50 wt. non-detergent oil. Engine flight test operational and leak check satisfactory. I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition. For complete details concerning this installation, refer to W.O.# 7997 on file at this overhaul facility. END.

Glenn M. Trostel
A&P523628689

FIREWALL FORWARD, INC.
5212 CESSNA DR.
LOVELAND, CO. 80538
970-669-6185

DATE: 9-24-98 HOBBS: 2518.1 S/N: 276672-R
CONTINENTAL TSIO-520-NB SMOH: 000.00

ACCESSORIES OVERHAULED OR EXCHANGED AT OVERHAUL

MFG. NAME	COMPONENT	MODEL/PN	SERIAL NO.
Modine	XX Oil Cooler	1E3132	0688
Prestolite	XX Starter	MHJ 4003	7010990
Prestolite	XX Alternator	ALV9510	A-131028
Bendix	XX Magneto (LT)	S6RN-1201	F088824FR
Bendix	XX Magneto (RT)	S6RN-1205	F298818FR
TCM	XX Metering Unit	632916-11	H028803AR
TCM	XX Fuel Pump	646210-11	H028810BR
TCM	XX Flow Divider	634326-4A18	G308806CR
Garrett	## Turbocharger	407810-9001	BH028204
Garrett	XX Bypass Valve	470908-13	FB0156
Garrett	XX Controller	470836-18	PL0105
Garrett	XX P.R.V.	470944-15	HD0106
McCauley	XX Governor	DCFS290D7/T3	780782
Globe	XX Tach Gen	22A667	127

XX - Original overhauled
** - New replacement
OO - Overhaul exchange
- Factory O/H - New

FIREWALL FORWARD, INC.
5212 CESSNA DR.
LOVELAND, CO. 80538
970-669-6185

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

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RIGHT

RIGHT

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
6/12/97	Hobbs	2350.5	TOTAL	UNKNOWN	SMOOTH 1161.7
Inspected engine IAW FAR 43 Appendix D, 100 Hour Inspection. Changed oil & filter. Added 11 qts Aeroshell 15W50 oil. Cut open filter & checked for contamination. Found satisfactory. Cleaned, capped & tested all spark plugs. Checked ignition harness. Checked magneto timing. Checked induction air filter. Checked exhaust & induction system for leaks. Performed diff comp test #1⁵⁹/₈₀ #2⁵⁵/₈₀ #3⁶²/₈₀ #4⁶³/₈₀ #5⁶²/₈₀ #6⁶²/₈₀ IAW T.C.M. 513. MS4-15. Lubed & checked engine controls. Washed engine. Ground ran. Checked for fuel & oil leaks. Found satisfactory.					
DATE 6/12/97 TACH 2350.5 TOTAL UNKNOWN SMOOTH 1161.7 Aviation Consultants of America, Inc. certify that this engine has been inspected in accordance with an 100 Hour inspection and was determined to be in an airworthy condition. Chapman, Mark A. AEP 220781484					
9/13/97	Hobbs	2383.3	TOTAL	UNKNOWN	SMOOTH 1194.5
Changed oil & filter. Added 11 qts Aeroshell 15W50 oil. Cut open oil filter. Checked for contamination. Found satisfactory. Performed diff comp test IAW T.C.M. 513. MS4-15 #1⁵⁹/₈₀ #2⁵⁵/₈₀ #3⁶²/₈₀ #4⁶³/₈₀ #5⁶²/₈₀ #6⁶²/₈₀. Cleaned, capped & tested all spark plugs. Rejected 3 & replaced with 3 new spark plugs PN RH B37E. Checked magneto timing. Checked induction & exhaust systems for leaks. Ground ran. Checked engine for fuel & oil leaks. Found satisfactory. Chapman, Mark A. AEP 220781484					
Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540					

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

STEVENS AVIATION

N340DL

S/N 0501

ACTT

HM 2389.4

October 8, 1997

Removped the KLN-90A, PN 066-04031-1121, SN X20736 Loaner and Installed the Factory Repaired KLN-90B, PN 066-0431-1121, SN 23691. System ops checked normal operation. Also repaired the AMR-350, PN 622-2087-011, SN 5405 Marker IAW Manual PN 523-0766040. System ops checked normal operation. Also cleaned and Adjusted the Glide Slope Pointer in the KI-525A, PN 066-3046-01, SN 12399. System ops checked normal operation. Also removed the KN-65A, PN 066-1029-03, SN 20834 DME RT Unit for Maintenance.

The Maintenance Identified Above Has Been Inspected And The Item Is Approved For Return To Service. Work Order Number 31090.

Signed

For STEVENS AVIATION NASHVILLE, TN 37217 CRS VIB3368K

01/22/98 Hobbs 2416.0

Changed oil & filter. Added 11 qts Aeroshell 15W50 oil. Cut open oil filter. Checked for contamination. Found satisfactory. Ground ran. Checked engine for oil leaks. Found satisfactory. Lubricated watergate butterfly valve.

Chapman, Mark A. AEP 220781484

Aviation Consultants of America, Inc.

135 Green Oaks Lane

Danville, VA 24540

2/20/98 Hobbs 2446.0

Replaced #5 cylinder valve cover gasket with a new valve cover gasket. Ground ran. Checked satisfactory.

Chapman, Mark A. AEP 220781484

Aviation Consultants of America, Inc.

135 Green Oaks Lane

Danville, VA 24540

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

Changed to U.S. Registration
N340DL

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					
N340DL (Right engine log entry) <i>connect s/n</i> TCM TSIO520NB s/n 276657-R <i>276672-R</i>					
Inspected engine as required by FAR91.409 per inspection meeting requirements of FAR43 App. D. Change oil filter. (No oil change) Compression #1 74/80 #2 70/80 #3 74/80 #4 68/80 #5 70/80 #6 67/80 AD89-24-01R1 eff. 8/10/90 Scavenge oil pump found new style gear installed. AD93-16-15 eff. 12-14-93 Fuel Pump drive shaft found old style drive and old style pump installed. OK til next engine OVH. AD95-21-15 eff. 7/10/95 Detonation NA S/N					
DATE 6/24/96 Hobbs 2162.7 Engine Total Time UNK TTSMOVH 973.9 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.					
ANTHONY R. SAXTON AP2705607671A <i>Anthony R. Saxton</i>					
 TAS AVIATION, INC. ROUTE 1, DEFIANCE, OHIO 43512					
9/17/96 Hobbs 2249.9 Performed DIFF Comp Test #1 ⁶⁸ / ₈₀ #2 ⁵⁹ / ₈₀ #3 ⁵⁶ / ₈₀ #4 ⁶⁸ / ₈₀ #5 ⁶⁸ / ₈₀ #6 ⁶⁸ / ₈₀ I/LAW T.E.D.Y.N.G. CONTINENTAL S/B M84-15. Replaced #2 & #4 cylinder VALVE COVER GASKETS. ENGINE GROUND RAN. checked VALVE covers for oil leaks, found SATISFACTORY. <i>Chrysler Mark Rembold</i> AEP 220781484 Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540					
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

MAINTENANCE RECORD

5

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
10/10/96 Hobbs 2258.8 CHANGED oil & FILTER. ADDED 12 qts Aeroshell 15W50 oil. CUT OPEN oil FILTER checked for CONTAMINATION, found SATISFACTORY. Performed DIFF Comp Test #1 ⁶² / ₈₀ #2 ⁶⁶ / ₈₀ #3 ⁶⁷ / ₈₀ #4 ⁶⁴ / ₈₀ #5 ⁶² / ₈₀ #6 ⁶⁸ / ₈₀ I/LAW T.C.M. SB M84-15. CLEANED, CAPPED, TESTED & ROTATED all spark plugs. Ground RAN to check for oil leaks, found SATISFACTORY. <i>Chrysler Mark Rembold</i> AEP 220781484 Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540		
3/13/96 Hobbs 2306.6 CHANGED oil & FILTER. ADDED 11 qts Aeroshell 15W50 oil. CUT OPEN oil FILTER checked for CONTAMINATION, found SATISFACTORY. Performed DIFF Comp I/LAW T.C.M. SB M84-15. #1 ⁵⁸ / ₈₀ #2 ⁶⁴ / ₈₀ #3 ⁶⁰ / ₈₀ #4 ⁵⁸ / ₈₀ #5 ⁶⁸ / ₈₀ #6 ⁶⁸ / ₈₀ . CLEANED, CAPPED & TESTED all spark plugs. Rejected 3 spark plugs. Replaced with 3 NEW spark plugs Plw RH B32E, CAPPED & TESTED. WASHED ENGINE. Ground RAN to check for oil leaks, found SATISFACTORY. <i>Chrysler Mark Rembold</i> AEP 220781484 Aviation Consultants of America, Inc. 135 Green Oaks Lane Danville, VA 24540		

MAXIMUM HOURS

HOURS.

DATE	TIME RUN		TIME SINCE OVERHAUL	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD →			948	9
MAR. 28 / 96	20	8	969	7
APR. 12 1996	ø		969	7
			100 HR / ANNUAL INSPECTION CARRIED OUT IN ACCORDANCE WITH: TRANSPORT CANADA AWM671-101(4) APPENDIX A	
			FUEL NOZZLES CLEANED. BRACKETT AIR FILTER SEPARATORS CLEANED.	
TOTAL THIS PAGE			CARRIED FORWARD	
TOTAL FROM PREVIOUS SUMMARY				
TOTAL SINCE MFG.				

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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

3

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD → 6760					
Oct 8/93	8	4	684	4	Prop Governor removed FOR Prop Governor installed Enterer transcribe from Journal
THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF TRANSPORT CANADA. AIRCRAFT RELEASED FOR RETURN TO SERVICE.					
Nov 17/94	40	0	724	4	- Check Starter Brunker - Wash Slat 1 1/80 2 1/80 3 1/80 - oil Change & filter Shell 15W50
MAR 28/95	120	1	844	5	Oil and filter changed Aeroshell 15W50 Added. Air oil separators Serviced - Starter Motor Repaired
Aug 10-95	54	0	899	3	Oil and filter changed Aeroshell 15W50 Added
DEC 28/95	33	6	932	9	Removed alternator for drive gear alternator re-installed + engine run
JAN. 8/96	16	0	948	9	RA. ENG. OIL + FILTER CHANGED, WEAR CHECK OIL AEROSHELL 15W-50 OIL ADDED.
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TOTAL SINCE MFG.					

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
overhaul Log Book 1/2		
100 HRS. ON CASE 4663 March 17/94 LEGAT 5 2.73		
4 1/80 5 1/80 6 1/80		
100 HRS / ANNUAL INSPECTION CARRIED OUT IN ACCORDANCE WITH TRANSPORT CANADA AWM571-101(a) APPENDIX A	"The maintenance described has been performed in accordance with the applicable standards of airworthiness."	MO7242
	"The maintenance described has been performed in accordance with the applicable standards of airworthiness."	MO7242
inspection + compliance with AD 76-02-07 function tested serviceable		17314873
SAMPLE TAKEN, AVIATION UNLIMITED MAINTENANCE TRANSPORT CANADA AMO No. 65-04	"The maintenance described has been performed in accordance with the applicable standards of airworthiness."	MI13519

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

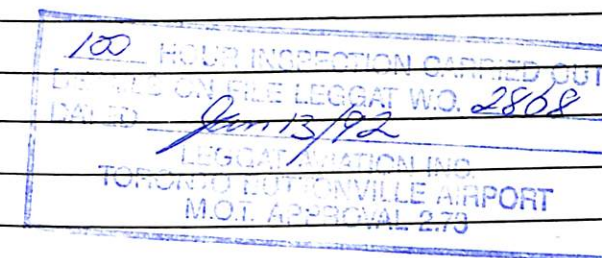
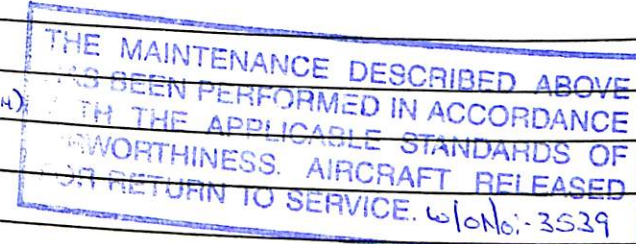
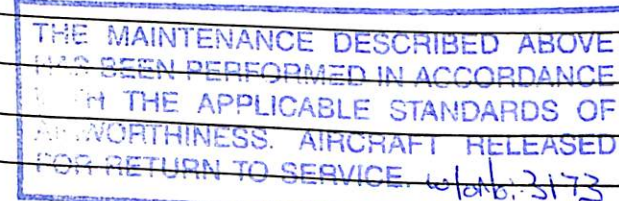
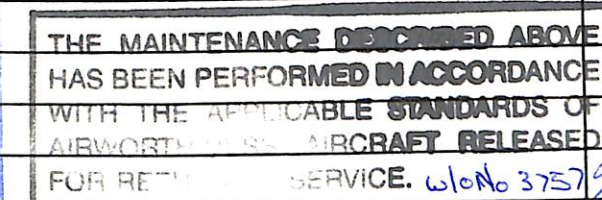
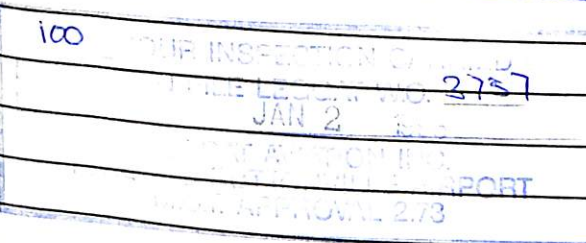
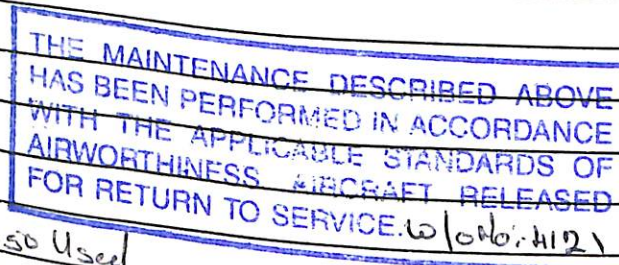
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DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→		302	1	
Jun 13/92	129	1	432	2	THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE STANDARDS OF AIRWORTHINESS. AIRCRAFT RELEASED FOR RETURN TO SERVICE.
May 19/92	43	5	475	7	Oil Change Filter Replaced
October 5/92	48	2	523	9	Oil Change, Filter Replaced Baffle Seals Replaced Vacuum Pump Replaced (No. 442 CW 5/16" 3/8" ISI (OFF) Exhaust Collector Repaired.
JAN 26 1993	44	8	568	7	Motostat No. 70/80 No. 2-74/80 No. 3-74/80 No. 4-74/80 No. 5-74/80 No. 6-70/80 Oil Change Carried out. Aeroshell 15W50 installed Oil Filter replaced Prop control rod end replaced. Fuel bracket on top of No. 1 cylinder replaced
June 30/93	40	8	609	5	Oil Change Carried Out. Aeroshell 15W50 Used Oil Filter Replaced
Sept 31/93	66	5	676	0	Oil Change Carried Out. Filter Replaced, Aeroshell 15 Vacuum Pump Adapter Seal Replaced Ground Run, no leaks
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

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 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER



MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

1

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE LOG

1. Make CONTINENTAL
2. Model TSIO 520 NB2
3. Specification _____
4. Manufacturer's Serial Number 276672-R
5. Date of Manufacture UNKN
6. Aircraft Inspection Cycle _____