

YEAR: DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
7/6/00	1106.5	1802.5	730.4	821.5 completed 100 hr inspection this date checked mag to Engine Timing, & certify that this Engine has been inspected 3/4/00 on Annul/100 hr and was determined to be in an Airworthy Condition. S/P 104 ACP 58598795.
	5/00			oil annular started
8/9/00	1805.1	100pts		Annul shell 50wt/oil filler Test Run no leaks (over)
11/6/01	1884	100pts		Annul shell 40wt/oil filler #108 Test Run no leaks JEW 1766478

- Premier Aircraft, 1000 NW Perimeter Way, Troutdale, OR 97060-9524 503-661-4184

Manufacturer Continental

Total Time 3746

Date 08/15/2003

Model Number IO-520-CB

WO Number 07991

Repair

- Serial Number 126353-8-C Hobbs Time 1874.6

This engine only, excluding all accessories, was overhauled in accordance with TCM Manual X30039A. Engine was converted from a -C to a -CB. Installed an overhauled crankcase. Installed a new VAR crankshaft assembly, S/N N03EA226. Cylinders were overhauled on our WO 07894. See following list of parts installed. Engine was run on a test stand. Installed a new oil filter.

- Service Information

<u>Service Bulletin</u>	<u>Subject</u>	<u>Compliance</u>
M92-6	Rocker shafts	Installed solid rocker shafts. Torqued bolts 90-100 inch pounds.
M92-9	Thru bolt torque	Installed 12pt nuts. Torqued 790-810 inch pounds.
MSB93-12	Valve keepers	N/A by cylinder manufacturer.
M93-8	Roto coil clearance	Rocker arm to rotocoil clearance exceeds .020".
SB00-3	Crank, ctw's & rods	Inspected the crankshaft, counterweights and connecting rods.

Airworthiness Directives

- Engine

<u>AD Note</u>	<u>Amend #</u>	<u>Dated</u>	<u>R</u>	<u>Subject</u>	<u>Compliance</u>
79-05-09	39-3426	03/12/1979	N	Oil pressure relief valve	N/A by relief valve part number.
80-01-04	39-3647	01/25/1980	N	Rebarreled cylinders	N/A. Cylinders are not rebarreled.
86-13-04	39-5850	02/24/1988	Y	Cylinders	N/A by TIS and piston part number.

AD Note requires no further inspection.

- Continued on the next page.

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YEAR:

Airworthiness Directives

Engine

<u>DATE</u>	<u>AD Note</u>	<u>Amend #</u>	<u>Dated</u>	<u>R</u>	<u>Subject</u>	<u>Compliance</u>
88-03-06	39-5888	04/15/1988	N	TCM oil filter	N/A. A TCM oil filter was not installed at this time.	
91-19-03	39-8030	09/29/1991	N	Champion oil filter	N/A by the date code of the oil filter installed at this time.	
93-10-02	39-8603	08/12/1993	N	Valve retainers	Visually inspected the valve retainers.	
93-16-15	39-8743	12/14/1993	N	Fuel pump drive	A new drive shaft, part number 653359 was installed.	
95-03-14	39-9150	03/13/1995	Y	Engine mounts	Installed new mounts per paragraph (b).	
97-26-17	39-10260	01/23/1998	Y	Crankshaft inspection	<u>No further action is required by this AD.</u> Installed a new VAR crankshaft assembly.	
98-01-08	LETTER	01/15/1998	N	Roller rocker arm	<u>Re-inspection is required every time the crankshaft is removed from the engine.</u> N/A. Roller rocker arms are not installed.	
98-17-11	39-10713	10/19/1998	N	Nelson crankshafts	N/A. Nelson did not repair this crankshaft.	
99-19-01	39-11290	09/30/1999	N	Crankshaft inspection	N/A by crankshaft serial number and date of last factory work.	
2000-23-21	39-11994	12/12/2000	N	Crankshaft inspection	The crankshaft in this engine is not affected by engine or crankshaft serial number per Service Bulletin MSB00-5D.	

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Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair				

DATE Continued from the previous page.

Airworthiness Directives

Oil Filter Adapter

<u>AD Note</u>	<u>Amend #</u>	<u>Dated</u>	<u>R</u>	<u>Subject</u>	<u>Compliance</u>
96-12-22	39-9665	07/31/1996	Y	Oil filter adapter	An oil pump housing with a built in oil filter adapter was installed.

AD Note requires no further inspection.

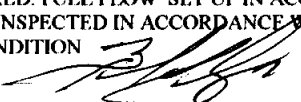
End.

The fuel injection system MUST be adjusted in accordance with the latest engine and airframe manufacturers instructions when this engine is installed in the aircraft.

The article identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service in respect to the work that was accomplished. Pertinent details of the repair are on file at this Repair Station under Work Order Number 07991.

Date: 08/15/2003 Signed  Inspector for Premier Aircraft RS JZYR537L.

Repair

YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
	MODEL: IO-520-C			<i>ALBANY AIRMOTIVE</i> DATE: 11/2/03
	SERIAL #: 126353-8-C			PO BOX 433 ALBANY, OR. 97321 HOBBS: 1874.2
	"N" NUMBER: N7803R			PHONE: (541) 812-0144 TACH:
	11/2/03 HOBBS 1874.2 TSOH 0 REINSTALLED THIS ENGINE IN N7803R, WITH NEW ENGINE MOUNTS AND BOLTS. REPLACED ALL HOSES WITH NEW. REPLACE UPPER FIREWALL TO ENGINE MOUNT BOLTS. REINSTALED ALL PREVIOUSLY REMOVED ACCESSORIES. ADDED 12 QUARTS PHILLIPS 20-50 NON-DETERGENT MINERAL OIL. PRE-OILED ENGINE. TEST RAN AND LEAK CHECKED. FUEL FLOW SET UP IN ACCORDANCE WITH SID 97-3. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION 			

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DATE				

MODEL: IO-520-B	ALBANY AIRMOTIVE	DATE: 1/10/05
SERIAL #: 121097-6-B/66	PO BOX 433 ALBANY, OREGON 97321	HOBBS: 2312.6 1914.2 ⁸
"N" NUMBER: N7803R	PHONE: (541) 812-0144	TACH:
<p>1/10/05 HOBS ^{1914.2} 2312.6 COMPLETED 100 HOUR INSPECTION THIS DATE. CHANGED OIL AND FILTER ADDED 12 QUARTS AEROHELL 50W. CHECKED MAG TO ENGINE TIMING. CLEANED AND GAPPED SPARK PLUGS. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION</p> <p><i>[Signature]</i> A84 585987958</p>		

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YEAR: _____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				engine has been inspected IDW an annual inspection & was determined to be in airworthy condition this date. <i>[Signature]</i> ATP 512703317 ID
9-11-07	NABG 2100.1			Drained oil & replaced with 12 qts Pennzoil 15W50. Removed oil filter & replaced with Champion CH5108-1. <i>[Signature]</i> ATP 3215072
4-2-08	NABG 2127.7			Replaced CNT probe with Morwich Aero P/N 102-00007. Ops checked OK. <i>[Signature]</i> ATP 3245072

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6-7-08	14.66	2135.2	264 SMCH	Annual inspection completed this date IPW FAR 43 Appendix D. Drained oil + replaced with 12 qts Amsoil 100. RTR oil filter with CH48108. Adjusted idle mixture. Adjusted mag timing. Compression as follows: #1 $\frac{100}{80}$ #2 $\frac{90}{80}$ #3 $\frac{72}{80}$ #4 $\frac{70}{80}$ #5 $\frac{72}{80}$ #6 $\frac{71}{80}$. Cleaned + gapped spark plugs. Cleaned fuel screen. Cleaned fuel nozzles. I certify that this engine has been inspected IPW an annual inspection + was determined to be in airworthy condition this date. /s/ PLT 1 ATP 30100D IP

Date: 10-1-2009
TTE: 4073.8

Mike Ward 573944410 IA

100 hour inspection and

Date: 10/2/2011
TTE: 4142.8

mx Ward

YE

FliteWing Inc.

Right Engine
Hobbs: 2293.5

N7803R
SMOH: 419.3

Date: 2/12/2013
TTE: 4165.3

DA

Performed a 100 hour inspection on this engine using the Beech service manual and FAR 43 appendix (d) as a guide. Complied with AD 77-13-22 (effective date 4/17/78) crankcase inspection with no cracks found, due again in 100 hours. Changed oil and filter with Aeroshell W-100 and a CH48108-1 filter. Cut old filter and inspected for metal with none found. Checked timing and compression as follows: #1-72/80 #2-70/80 #3-73/80 #4-72/80 #5-30/80 #6-70/80. Found large crack on #5 cylinder between head and cylinder. Replaced assembly with overhauled from Premier Aircraft. Cleaned, gapped and tested all spark plugs. Replaced Brackett air filter element. Test ran and leak checked engine. This engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.

Mike Ward 573944410 IA



Date: 4/18/2014
TTE: 4256.5

Mike Ward 573944410 IA

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Date: 7/1/2017
TTE: 4352.0

Mike Ward 573944410 1A

with a 100 hour inspection

VI

DA

FliteWing Inc. RIGHT eng.

3280 25th St. SE

Salem, OR. 97302

Tach: 213

SMOH: 652.3

N7803R

Date: 7/18/2018

PO Box 13047

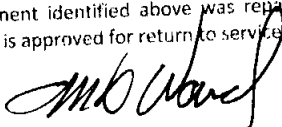
Salem, OR. 97309

TTAF: 4398.3

Performed a 100 hour inspection on this engine using the Beech service manual and FAR 43 appendix (d) as a guide. Complied with AD 77-13-22 (effective date 4/17/78) crankcase inspection with no cracks found, due again in 100 hours. Changed oil and filter with Aeroshell W-100 and a CH48108-1 filter. Cut old filter and inspected for metal with none found. Checked timing and compression as follows: #1-72/80 #2-72/80 #3-72/80 #4-74/80 #5-70/80 #6-74/80. Cleaned, gapped and tested all spark plugs. Replaced left landing light bulb. Replaced Brackett air filter element. Replaced the distributor block and gear then performed a 500 hour inspection on the right magneto. Replaced the left magneto with overhauled 10-349220-5 s/n G06714. Test ran and leak checked engine. This engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.

This aircraft and/or component identified above was repaired or inspected in accordance with current FAA regulations and is approved for return to service only for the work accomplished.

M Ward 573944410 IA



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FliteWing Inc. RIGHT eng.

3280 25th St. SE

Salem, OR. 97302

Tach: 227.7

SMOH: 667.0

N7803R

Date: 12/18/2018

PO Box 13047

Salem, OR. 97309

TTAF: 4413.0

Performed a 100 hour inspection on this engine using the Beech service manual and FAR 43 appendix (d) as a guide. Complied with AD 77-13-22 (effective date 4/17/78) crankcase inspection with no cracks found, due again in 100 hours. Changed oil and filter with Aeroshell W-100 and a CH48108-1 filter. Cut old filter and inspected for metal with none found. Checked timing and compression as follows: #1-76/80 #2-68/80 #3-72/80 #4-70/80 #5-76/80 #6-76/80. Cleaned, gapped and tested all spark plugs. Replaced Brackett air filter element. Test ran and leak checked engine. This engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.

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M Ward 573944410 IA

M Ward

YEAR

DATE

FliteWing Inc. RIGHT eng.

3280 25th St. SE

Salem, OR. 97302

Tach: 265.5

SMOH: 704.8

N7803R

Date: 2/14/2020

PO Box 13047

Salem, OR. 97309

TTE: 4550.8

Performed a 100 hour inspection on this engine using the Beech service manual and FAR 43 appendix (d) as a guide. Complied with AD 77-13-22 (effective date 4/17/78) crankcase inspection with no cracks found, due again in 100 hours. Changed oil and filter with Aeroshell W-100 and a CH48108-1 filter. Cut old filter and inspected for metal with none found. Checked timing and compression as follows: #1-70/80 #2-70/80 #3-70/80 #4-70/80 #5-72/80 #6-72/80. Cleaned, gapped and tested all spark plugs. Replaced Brackett air filter element. Test ran and leak checked engine. This engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.

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M Ward 573944410 IA



YE

DA

FliteWing Inc. RIGHT eng.

3280 25th St. SE

Salem, OR. 97302

Tach: 270.4

SMOH: 709.7

N7803R

Date: 4/16/2021

PO Box 13047

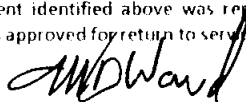
Salem, OR. 97309

TTE: 4555.7

Performed a 100 hour inspection on this engine using the Beech service manual and FAR 43 appendix (d) as a guide. Complied with AD 77-13-22 (effective date 4/17/78) crankcase inspection with no cracks found, due again in 100 hours. Changed oil and filter with Aeroshell W-100 and a CH48108-1 filter. Cut old filter and inspected for metal with none found. Checked timing and compression as follows: #1-75/80 #2-60/80 #3-65/80 #4-60/80 #5-62/80 #6-62/80. Cleaned, gapped and tested all spark plugs. Replaced Brackett air filter element. Test ran and leak checked engine. This engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.

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M Ward 573944410 IA



FliteWing Inc. RIGHT eng.

3280 25th St. SE

Salem, OR. 97302

Tach: 286.1

SMOH: 725.4

N7803R

Date: 5/1/2022

PO Box 13047

Salem, OR. 97309

TTE: 4571.4

Performed a 100 hour inspection on this engine using the Beech service manual and FAR 43 appendix (d) as a guide. Complied with AD 77-13-22 (effective date 4/17/78) crankcase inspection with no cracks found, due again in 100 hours. Changed oil and filter with Aeroshell W-100 and a CH48108-1 filter. Cut old filter and inspected for metal with none found. Checked timing and compression as follows: #1-70/80 #2-62/80 #3-62/80 #4-72/80 #5-70/80 #6-68/80. Cleaned, gapped and tested all spark plugs. Replaced Brackett air filter element. Test ran and leak checked engine. This engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.

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M Ward 573944410 IA

