

R/H
Sp 518141



Transport
Canada
Aviation

Transports
Canada
Aviation

TP3910E

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

Second Edition

January 1987

Canada

P. Baron

TS10520 WB

1221.5 Smott

2314.6 TTSN

ENGINE LOG

1. Make CONTINENTAL
2. Model TSIO-520-WB
3. Specification E8CE
4. Manufacturer's Serial Number 518141
5. Date of Manufacture _____
6. Aircraft Inspection Cycle _____

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 →			24.7		Time brought forward from U.S. Logs.
Aug. 27/87			24.7		- Engine I-trained as installed in C-64UM. - Engine O/H'D. - Turbo-charger, and controllers + wastegate - Starter, magnetos, alternator + fuel system - engine mounts + hoses replaced at
					CERTIFICATION (1). I certify that (a) the aircraft identified on this report has been inspected in compliance with the Condition and Conformity Inspection procedure used that in the Training and Inspection Manual, and (b) the applicable inspection procedure, if any, over is applicable.
					AME/Company No. _____ Signature of Name of AME or Approved Inspector _____ Date _____
Nov 4/87	44	2	68	9	50 HR INSP COMPLETED — OIL CHANGED INSTALLED — GROUND RUN —
FEB 5/88					RH PROP DEICE BRUSHES REALIGNED
APRIL 15/88	53	3	122	2	100 HR INSP COMPLETED - OIL & FILTER CYC LEAKAGE INSP - ALL GOOD MAGS POINTS CHECKED MAGS RETIMED - AIR FILTERS CLEANED 20 W 50 CHEVRO GROUND RUN - RETURNED TO SERVICE.
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

MAINTENANCE RECORD

1

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

SIGNATURE

LICENCE
NUMBER

O/H'D at 880.4 AF time
O/H'D at 1092.4 AF time
A/F time 1092.4

"100 HR INSPECTION COMPLETED AS PER
MANUFACTURER'S MAINTENANCE SCHEDULE."

SIGNATURE OF AME R.W. POPEL

LICENSE WGM 808 DATE Aug 27/87

FILTER CHANGED 20 WSD CHEVRON OIL
RETURNED TO SERVICE

"I certify that all applicable airworthiness
requirements stated in the engineering
and inspection manual have been met in
respect of the work done and the aircraft
is released for return to service."

Signed by AME [Signature]

Licence No. 15-82 Date Nov 4/87

✓ DRESSED - CHECKED - FUNCTIONING NORMALLY

[Signature] 12M686

CHANGED - FILTERS INSPECTED - OK
SPARK PLUGS CLEANED, GAPPED & TESTED OK
TURBO BREATHER DRAIN TUBE REPAIRED
OIL INSTALLED - RH MIXTURE ADJUSTED.

"I certify that all applicable requirements
stated in the engineering and inspection
manual have been met and the aircraft
is determined to be airworthy."

Signed by AME [Signature]

Licence No. 12M686 Date APR 15/88

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

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 →																													
Dec 17/88	49	9	122	2	50 HR INSP COMPLETED OIL & FWD 87-18-06 FOUND N/A BY SELLT NOT ON THIS ENG. AWD 88-03-0 ENG GROUND RUN - FUNCTIONING																								
Nov 7/88	47	1	219	2	100 HR INSP COMPLETED AS PER BE FILTERS CHECKED OK - CYLINDER LEAK TESTED - OK - NOZZELS CLEANED INSTALLED - ENGINE GROUND RUN																								
5-25-87	HM	1036.7 hrs	AIC		TOTAL time 13951.2 hrs. Engine total Inspected aircraft per standard inspect. Checked cylind compression cleaned nozzles. Checked magneto points Outboard exhaust transistion serviced engine with 12 qts down engine, run up + leak checks																								
<table border="1"> <thead> <tr> <th colspan="2">DIFF.</th> <th colspan="2">COMP.</th> <th colspan="2">TEST</th> </tr> <tr> <th>#1</th> <th>#2</th> <th>#3</th> <th>#4</th> <th>#5</th> <th>#6</th> </tr> </thead> <tbody> <tr> <td>79</td> <td>75</td> <td>77</td> <td>74</td> <td>78</td> <td>73</td> </tr> <tr> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td>80</td> <td>80</td> </tr> </tbody> </table>						DIFF.		COMP.		TEST		#1	#2	#3	#4	#5	#6	79	75	77	74	78	73	80	80	80	80	80	80
DIFF.		COMP.		TEST																									
#1	#2	#3	#4	#5	#6																								
79	75	77	74	78	73																								
80	80	80	80	80	80																								
JUN 27 1989			304.5		TSN 1397.0 hr meter 1038.5 ACTY																								
					CARRIED FORWARD																								
TOTAL THIS PAGE																													
TOTAL FROM PREVIOUS SUMMARY																													
TOTAL SINCE MFG.																													

MAINTENANCE RECORD

2

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

SIGNATURE

LICENCE
NUMBER

"I certify that all applicable requirements stated in the engineering and inspection manual have been met and the aircraft is determined to be airworthy."

FILTERS CHANGED ADJUSTURES ADJUSTED
RWD 87-26-01 N/A AIRCOND DRIVE PULLEY
N/A - AC OIL FILTERS INSTALLED
NORMALLY

Signed by AME *[Signature]*

Licence No. *VRM686* Date *Aug 19/88*

[Signature] *VRM686*

"I certify that all applicable airworthiness requirements stated in the engineering and inspection manual have been met in respect of the work done and the aircraft is released for return to service."

CHECK SHEETS - OIL & FILTERS CHANGED,
CHECKED OK PLUGS CLEANED, GAPPED &
TIMING CHECKED 20 W50 CHEVRON OIL
ALL SYSTEMS FUNCTIONING NORMALLY

Signed by AME *[Signature]*

Licence No. *VRM686* Date *Nov 7/88*

Time = 1395.2 hrs, Engine 302.7 hrs SMUH
form and Beech 58P maint. manual
and gapped spark plugs, cleaned fuel inject
and reset magnetotiming. Installed new
ro tube clamp. Changed oil and filter
Weroshelt 15W50 multigrade oil, washed
are satisfactory, (W09381)

I CERTIFY THAT THIS AIRCRAFT HAS BEEN
INSPECTED IN ACCORDANCE WITH A
100hr INSPECTION AND WAS DETER-
MINED TO BE IN AIRWORTHY CONDITION.
5-25-89
SKY TECH, INC.
G.L.M. STATE AIRPORT
REPAIR STATION #121-48
BALTIMORE, MD. 21220

[Signature]

97.0 Ground run engine set idle speed, mixture & manifold pressure.
Ref Y0 #04-00/057

Signed *[Signature]* Title *Chief Insp*

Certified Repair Station *VRM672C*
UNITED BEECHCRAFT, INC.
P. O. Box 9162 WICHITA, KANSAS

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

TT = Hobbs + 358

ENGINE SERVICE AND

Time SMOH = Hobbs - 734

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 →					
4-1-90	1120.7	Hobbs	1479.5	TT.SN.	386.7 SMOH C/W 10
H2RO Shell 15 W 50 AD INSTALLED - CLEANED					
C/W COMPRESSION CHECK #174/80 #276/80 #372/80					
GASKETS - CLEANED ENGINE - ALL RUN CHECKS					
WORK & INSPECTION C/W I/A/W Beech Guide #					
END					
3-26-91	1194.5	Hobbs	1553.5	TT.SN.	460.5 SMOH C
GUIDE FN# 102-590000-19D - CHANGED					
AND GAPPED PLUGS - CHECKED AND SET					
INTAKE HOSE & FILTER - C/W COMPRESSION					
#68/80 FOR PERTINENT DETAILS SEE					
JUL 29 1991					
Installed new set of spark plugs, gre					
CARRIED FORWARD					
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

MAINTENANCE RECORD

3

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

SIGNATURE

LICENCE
NUMBER

ANNUAL Inspection, CHANGED OIL AND FILTER
GAPPED PLUGS - CHECKED AND SET MAG TIMMING
#4 73/80 #5 73/80 #6 72/80 - TIGHTENED ROCKER BOX COVER
COMPLETE FOR PERTINENT DETAILS SEE W.O. 3652. ALL
102-590000-190

I certify that this ENGINE has been inspected

in accordance with a ANNUAL inspection and was
determined to be in airworthy condition.

Total time 1120:7 Hrs Date 4-1-90

W.O. # 3652

Signed [Signature]

Henson Aviation, Inc.
Hagerstown, Maryland

HNARODIA

100HR / ANNUAL Inspection - PER Beech Inspection
AND Filter Aero Shell 15W 50 AD INSTALLED. - CLEANED
TIMMING. REPLACED INTAKE HOSE (9) INTER COOLER. AND
CHECK 8 #1 70/80 #2 70/80 #3 72/80 #4 65/80 #5 68/80
W.O. 4070

I certify that this ENGINE has been inspected

in accordance with a ANNUAL inspection and was
determined to be in airworthy condition.

Total time 460:5 SMH Date 3-26-91

W.O. # 4070

Signed [Signature]

Henson Aviation, Inc.
Hagerstown, Maryland

HNAR
ODIA

run engine, C.D.O.K. Refs to #04-003980

APPROVED FOR RETURN TO SERVICE
Signed [Signature]
Certified Repair Station #BWVR572C
UNITED BEECHCRAFT, INC.
P. O. Box 9162 WICHITA, KANSAS

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

TOTAL
SINCE MFG.

MAINTENANCE RECORD

4

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

SIGNATURE

LICENCE
NUMBER

INSPECTION PER BEECH INSPECTION GUIDE PN# 102-590000-19D
CLEANED AND GAPPED PLUGS CHECKED AND SET MAS
COMPRESSION CHECK #1 70/80 #2 66/80 #3 63/80 #4 68/80 #5 65/80
AD SECTION OF THIS LOG.

I certify that this ENGINE has been inspected
in accordance with a ANNUAL inspection and was
determined to be in airworthy condition. ETT: 1642.1

Total Time 549:3 SMITH Date 3-20-92

WOC 228 Signed [Signature]

Hagerstown, Aviation Services Inc.
Hagerstown, Maryland
CRS# XHGR043L

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

[illegible]

MAINTENANCE RECORD

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

SIGNATURE

LICENCE
NUMBER

Hot 1-64, 2-66, 3-68, 4-72, 5-64, 6-64. REPLACED #2 AND #5 CYLINDERS
S/N ON #2-43275-1, S/N ON #5-43275-2 (SEE CR5-AV2R704K TAGS).
CHECKED AND CALIBRATED (CR5-V4IR558K) CLEANED AND GRAPED
CHANGED OIL AND FILTER ON CH 48108. SERVICED WITH AEROSHELL 80
C/W AD93-16-15 TCM FUEL PUMP COUPLING REPLACEMENT PER MSB93-12R1.
TCM VALVE RETAINERS DNA BY S/N. AD93-08-17 TCM OIL PICK-UP TUBES DNA
END

I certify that this ~~aircraft~~ engine has been
inspected in accordance with A 100hr/Annual.
Inspection as required by FAR 91.409 (e)
(1) and was determined to be in
airworthy condition.

date: 2-9-94 Actt.: 1788.7 Etl: 1788.7

Robert Lane 1574481342A
signature

Tso: 695.9

certificate

for ELCORTA, Inc.

SSIN: 1-70, 2-80, 3-76, 4-70, 5-79, 6-66 CHK "HOT"
N/A BY DATE FITTED, AD94-01-03 R, N/A BY S/N.
-INSTALLED, AD94-14-12 L N/A BY REG^{TE}

I certify that this ~~aircraft~~ engine has been
inspected in accordance with AN ANNUAL
Inspection as required by FAR 91.409 (a)(1)
and was determined to be in
airworthy condition.

date: 3-1-95 1877.2 Etl: 1877.2 Tso: 784.4

James W. O'Connell 1A15650083
signature

certificate

for ELCORTA, Inc.

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

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

END

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM
PREVIOUS SUMMARY

TOTAL
SINCE MFG.

MAINTENANCE RECORD

6

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

SIGNATURE

LICENCE
NUMBER



A/C MAKE: Beechcraft
A/C MODEL: P-Baron
A/C S/N: TJ-220
A/C REG: N333HS

DATE: 5/1/98
W/O: 98106
ACTT: 1979.2
HOBBS: 1620.1

RIGHT TSN: 1979.2
RIGHT TSO: 586.4
RIGHT S/N: 518141

ELCORTA, INC. Log book entry insert for the Right Engine identified above.

- 1) Complied with an Annual inspection on the right engine as required by FAR 91.409(a)(1).
- 2) AD97-26-17 due at engine overhaul or crankshaft removal.
- 3) Complied with AD98-01-08 not applicable STC SE8594SW was not complied with.

Tech Sign:

Cert:

A&P 282622318

I certify that this engine has been inspected in accordance with Annual Inspection as required by FAR 91.409 (a) (1) and was determined to be in airworthy condition and has been approved for return to service.

Insp Sign:

Cert: A&P157442134IA

Elcorta, Inc. 13 Penn's Way, New Castle, DE 19720 (302) 322-7757
END



A/C MAKE: Beechcraft
A/C MODEL: P-Baron
A/C S/N: TJ-220
A/C REG: N333HS

DATE: 2/12/99
W/O: 99040
ACTT: 2049.5
HOBBS: 0000

RIGHT TSN: 2049.5
R. TSO: 956.7
RIGHT S/N: 518141

ELCORTA, INC. Log book entry insert for the Right Engine identified above.

- 1) Complied with an Annual Inspection on right engine in accordance with Beech and Continental maintenance manuals. Compressions Hot 1-67, 2-73, 3-65, 4-72, 5-70, 6-66. Cleaned and gapped all spark plugs. Checked mag points and timing. Changed oil and filter P/N CH 48108. Serviced with Aeroshell 100W oil. Ran engine. Leak and functional tested good. Magneto AD 96-12-07, DNA no impulse couplings installed. All AD's checked through biweekly listing 99-03M.

Tech Sign:

Cert: AP166521778

I Certify that this Engine has been Inspected in accordance with a Annual Inspection as required by FAR 91.409 (a) (1) and has been repaired in accordance with current Federal Aviation Regulations with respect to the maintenance performed and was determined to be in airworthy condition and has been approved for return to service.

Insp Sign:

Cert: AP222540178IA

Elcorta, Inc. 13 Penn's Way, New Castle, DE 19720 (302) 322-7757
END

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

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.	
BROI FOR:			A/C MAKE: Beechcraft A/C MODEL: P-Baron A/C S/N: TJ-220 A/C REG: N333HS		DATE: 5/10/00 W/O: 00110 ACTT: 2142.5 HOBBS: 93.0
					RIGHT TSN: 2142.5 RIGHT CSN: 0 RIGHT S/N: 518141 R.TSO 1049.7
Log book entry insert for the Right Engine identified above.					

- 1) Drilled out broken exhaust studs in R/H engine #2 and #4 cylinders and installed helicoils and new exhaust studs.
- 2) Removed right engine inboard intake tubes and installed new couplings and cylinder gaskets.
- 3) Removed right engine inboard exhaust stack assembly and installed new unit P/N K6407-01. Ran engine, leak check good.
- 4) Complied with **Annual Inspection** in accordance with Raytheon Inspection Guide P/N 102-590000-19H. Cleaned, gapped and tested all spark plugs. Performed compression test. Cleaned fuel filters. Changed oil filter and serviced with 12qts of Aeroshell 10W oil. Run and leak check good.
- 5) Investigated **AD 99-19-01**, to prevent crankshaft failure. Found it does not apply to this engine. Engine not new or rebuilt between Jan 1 1998 and Dec 31 1998 nor were crankshafts replaced between these dates. No action required.

Tech Sign: Chris M Cert: 217 762141 A & I

I certify that this engine has been inspected in accordance with an **Annual Inspection** as required by FAR 91.409 (a)(1) and has been repaired in accordance with current Federal Aviation Regulations with respect to the maintenance performed and has been determined to be in airworthy condition and has been approved for return to service.

Insp Sign: David A Johnson Cert: IA 222540178

Elcorta, Inc. 1616 Brett Road, New Castle, DE 19720 (302) 322-7757
----- END -----

			A/C MAKE: Raytheon A/C MODEL: Baron 58PA A/C S/N: TJ-220 A/C REG: N333HS		DATE: 5/18/01 W/O: 01141 ACTT: 2187.8 HOBBS: 138.3
					RIGHT TSN: 2187.8 RIGHT CSN: 0 RIGHT S/N: 518141 R.TSO 1095.0
Log book entry insert for the Right Engine identified above.					

- 1) Complied with **Annual Inspection** in accordance with Raytheon Inspection Form P/N 102-590000-19H dated July 1999. Cleaned gapped and tested spark plugs. Performed engine compression check: #1: 66 #2: 66 #3: 66 #4: 64 #5: 62 #6: 72. Replaced engine oil filter with new unit P/N CH48108. Serviced engine oil with 12 quarts of Aeroshell 100W. Replaced engine air filter with new unit P/N 50-389070-23. Ran engine, leak and ops check good.
- 2) Investigated **AD 2000-23-21**, TCM Crankshaft Failure. Found it does not apply to this aircraft due to crankshaft replacement in the time frame specified. No action required.

Tech Sign: David A Johnson Cert: AP222623342

I certify that this engine has been inspected in accordance with an **Annual Inspection** as required by FAR 91.409 (a)(1) and has been repaired in accordance with current Federal Aviation Regulations with respect to the maintenance performed and has been determined to be in an airworthy condition and has been approved for return to service

Insp Sign: David A Johnson Cert: AP156508311A

Elcorta, Inc. 1616 Brett Road, New Castle, DE 19720 (302) 322-7757
----- END -----

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

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

SIGNATURE

**LICENCE
NUMBER**



A/C MAKE: Raytheon DATE: 6/28/02
A/C MODEL: Baron 58PA W/O: 02151
A/C S/N: TJ-220 ACTT: 2239.0
A/C REG: N333HS HOBBS: 189.5

RIGHT TSN: 2239.0
RIGHT CSN: 0
RIGHT S/N: 518141
RTSO 1146.0

Log book entry insert for the Right Engine identified above.

- 1) Complied with **Annual Inspection** in accordance with Raytheon Inspection Form P/N 102-590000-19H dated July 1999. Performed engine compression check #1: 65 #2: 63 #3: 68 #4: 60 #5: O/H cylinder #6: 72. Cleaned, gapped and tested spark plugs. Replaced oil filter with new unit P/N CH48108. Serviced engine oil with 12 quarts of Aeroshell 100 Mineral. Ran engine, leak and ops check good.
- 2) Removed R/H engine #5 cylinder and piston assembly P/N TM649317 S/N 43325 and reinstalled same after O/H by CRS JM2R930K (W.O. 020380. Ran engine, leak and ops check good.

Tech Sign: *[Signature]* Cert: *A-P 149689237*

I certify that this engine has been inspected in accordance with an Annual Inspection as required by FAR 91.409 (a) (1) and has been repaired in accordance with current Federal Aviation Regulations with respect to the maintenance performed and has been determined to be in airworthy condition and has been approved for return to service.

Insp Sign: *[Signature]* Cert: *231643067IA*

Elcorta, Inc. 2000 Brett Road, New Castle, DE 19720 (302) 322-7757
----- END -----

AFTI 2247.5 SMOH 1155.1 8/14/02

Removed This Engine Due To Propeller Strike & Sent For Repair & Inspection TCM SB 96-11.

[Signature]
A88133508334

Eng M/N: TSIO-520-WB

Eng S/N: 518141

Eng. TT: 2606.3

Tach: Not supplied

Date: 9/30/2002

This engine has been disassembled, cleaned, inspected, and repaired as necessary to comply with TCM Service Bulletin 96-11 for propeller strikes. No damage was found from the prop strike. Reassembled engine using parts as listed below in accordance with data approved by or acceptable to the FAA. Cylinders were reinstalled as removed.

1 536563 Dowel, 1 630979-20
O-ring, 2 639195 Cwt, 6 641709 Lifter, 2 652451P030 Push rod, 1 653058R camshaft, 1
653490 Stud adapter, 12 654068 Conn rod bolts, 12 654490 Conn rod nut, 4 654587-.44 Screw,
8 AEC350998 Bushing, 16 AEC639193 Bushing, 2 AEC643626-103 Cwt pin, 2 AEC643626-104
Cwt pin, 4 AEC643626-105 Cwt pin, 1 BL-349220-5, S/N: F02IA154R O/H Mag, 1 BL-349260-6, S/N: F02
HA052R O/H Mag, 1 O/H crankshaft, 1 O/H crankcase, 1 CH48109 Oil filter, 1 MS35756-8 Key,
6 SA536379 Screw, 6 SA628488 Lifter, 16 SA629104 Snap ring, 2 SA630046 Piston pin, 1 630
899 Bearing, 4 638172 Bushings, 24 SA639629 Bushings, 1 SA641250 Crankseal, 2 SA641909
Plate, 12 SA642398 M10 Bearing, 16 SA643629 Plate, 1 SA646550-A1 Gasket set, 1 SA646592
A1M10 Bearing set, 4 SA649205 Screw, 4 SA652984 Shaft, 1 ea 646599, 646600 Baffle support.

Penn Yan Aero Service, Inc.

2499 Old Bath Road

Penn Yan, New York 14527

WO# 10484-02



FAA Approved Repair Station #NJ1R350K

[Signature]
Authorized Signature

ENGINE SERVICE AND

[illegible]

N333HS
S/nTJ-220

10/11/02
AFTT: 2247.5
EngTT: 1155.1

Installed repaired engine Model TSIO-520-WB s/n 518141 on right wing I/A/W Raytheon 58P Maintenance manual. New Lord mounts installed at this time. Installed overhauled propeller s/n ED2286, torqued and safetied. Engine serviced with A/S 80 mineral oil. Set idle mixture and fuel flow, run up operational and leak checks ok.

The aircraft and /or component identified above was repaired and inspected in accordance with current F.A.A. regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under

Work Order # 13032 Dated: 10/4/02
Signed: [Signature] for Prior Aviation Service Inc.
Certificate # BOR473C 50 North Airport Dr. Buffalo NY 14225

10/14/02	2247.3	1135.1	Performed Compression Test: ① 70/80 ② 68/80 ③ 67/80 ④ 67/80 ⑤ 74/80 ⑥ 63/80 T. H. McLeish BOR 473 C
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SUPPLEMENTAL LOG BOOK ENTRY

Reg: N333HS Model: TSIO-520-WB S/N: 518141
Date: 01-16-2003 Hobbs: 213.6

- Replaced oil filter with new P/N#CH48108. Split open oil filter, no material found. Performed ground run, no leaks found at this time. - END -

Robert A. Kindig III 338580935 A&P

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

MAINTENANCE RECORD

8

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

SIGNATURE

LICENCE
NUMBER



A/C MAKE: Raytheon
A/C MODEL: Baron 58P
A/C S/N: TJ-220
A/C REG: N333HS

DATE: 7/1/03
W/O: 03166
ACTT: 2279.6
Hobbs: 230.1

RIGHT TSN: 2279.6
RIGHT TSO: 1186.5
RIGHT S/N: 518141

Log book entry insert for the Right Engine identified above.

- 1) Performed R/H Engine compression checks: #1: 61 #2: 65 #3: 55 #4: 68 #5: 76 #6: 72.
- 2) Complied with R/H Engine Oil Change. Drained oil. Removed and replaced oil filter with new unit P/N CH48108. Serviced engine with 12 quarts of Aeroshell 100W. Ran engine, leak check good.

I certify that this engine has been inspected in accordance with an **ANNUAL INSPECTION** as required by FAR 91.409 (a) (1) and has been repaired in accordance with current Federal Aviation Regulations with respect to the maintenance performed and was determined to be in airworthy condition and has been approved for return to service.

Insp Sign: [Signature] Cert: AP1565083IA

Elcorta, Inc. 2000 Brett Road, New Castle, DE 19720 (302) 322-7757

END



A/C MAKE: Raytheon
A/C MODEL: Baron 58P
A/C S/N: TJ-220
A/C REG: N333HS

DATE: 8/27/04
W/O: 04282
ACTT: 2314.6
HOBBS: 265.1

RIGHT TSN: 2314.6
TSO: 1221.5
RIGHT S/N: 518141

Log book entry insert for the Right Engine identified above.

- 1) Complied with **Annual Inspection** in accordance with Raytheon Aircraft Maintenance Manual Chapter 5-20. Cleaned and gapped spark plugs. Replaced engine oil filter with new unit P/N CH48108. Serviced engine oil with 12 quarts of Aeroshell 100W.
- 2) Investigated **AD 2004-08-10**, Amendment 39-13579, Engine Components Inc. (ECI) Cylinders. Found no affected cylinders installed on engine. No further action required.
- 3) Removed and replaced engine induction air filter with new unit P/N 50-389070-23.
- 4) Removed and replaced R/H engine #1 lower spark plug with new unit P/N RHB32E. Ran engine, ops check good.

Tech Sign: [Signature] Cert: AP149659037

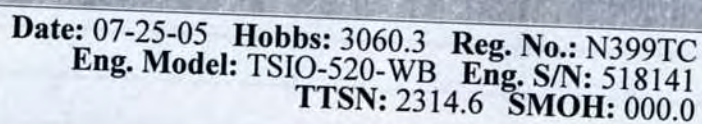
I certify that this engine has been inspected in accordance with an **Annual Inspection** as required by FAR 91.409 (a) (1) and has been repaired in accordance with current Federal Aviation Regulations with respect to the maintenance performed and was determined to be in airworthy condition and has been approved for return to service.

Insp Sign: [Signature] Cert: AP1565083IA

Elcorta, Inc. 2000 Brett Road, New Castle, DE 19720 (302) 322-7757

END

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

[illegible]

Completed engine major overhaul this date in reference to Continental overhaul manual X30574A, parts manual X30580A, and all applicable service bulletins, letters and instructions. This engine has been overhauled to factory new fits and limits. Crankshaft (s/n: B365), crankcase, and camshaft overhauled/certified, connecting rods align bored, counterweights reworked, and Continental factory new cylinder assemblies installed. Engine accessories were overhauled/exchanged or new as follows: ignition harness, Champion massive spark plugs, magnetos, starter, alternator, propeller governor, fuel system, turbocharger, controller, wastegate, p.r.v., tach generator, oil cooler, and various exhaust pieces. Maintenance release tags and list of C/W A.D.'s provided. For complete details concerning this overhaul, refer to work order #2443-04-2005 on file at this overhaul facility. END.

Firewall Forward
Loveland, CO 80538

Firewall Forward • Loveland, Colorado • (800) 444.0556 • www.FirewallForward.com

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TOTAL SINCE MFG.					

MAINTENANCE RECORD

9

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

SIGNATURE

LICENCE
NUMBER



Date: 07-25-05 Hobbs: 3060.3 Reg. No.: N399TC
Eng. Model: TSIO-520-WB Eng. S/N: 518141
TTSN: 2314.6 SMOH: 000.0

ACCESSORIES OVERHAULED OR EXCHANGED AT OVERHAUL

MFG. NAME	COMPONENT	MODEL/PN	SERIAL NO.
TCM	Magneto	10-349260-6	F02HA052R
TCM	Magneto	10-349220-5	F021A154R
Kelly	Starter	646275-1	F034393
TCM	Alternator	649304VH	A136783
Woodward	Propeller Governor	B210710	2005363
TCM	Fuel Pump	646765-6	J258401-B
Precision	Throttle Assy	2524624-6	77479
TCM	Flow Divider	642400-1A2	C197903C
Garrett	Turbocharger	409680-9001	QAR0101
Garrett	Wastegate	470892-9002	QAR0101
Garrett	Controller	481008-9022	HLO109
Garrett	P.R.V.	470944-9009	IAO108
Electromech	Tach Generator	EM8000	1096
Modine	Oil Cooler	1E1775	0786

Firewall Forward
Loveland, CO 80538



Date: 07-25-05 Hobbs: 3060.3 Reg. No.: N399TC
Eng. Model: TSIO-520-WB Eng. S/N: 518141
TTSN: 2314.6 SMOH: 000.0

Engine Major Overhaul

Completed engine and propeller installation this date for the purpose of engine major overhaul. Engine baffles repaired and new seal material installed. Various exhaust pieces overhauled. Serviced engine with Aeroshell 100ND oil. Functional and leak check satisfactory. This engine is approved for return to service. For complete details concerning this installation, refer to work orders #2443-04-2005 and #2444-04-2005 on file at this facility. END

Conan Poitra
A&P467438980

Firewall Forward
Loveland, CO 80538

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					

MAY 01, 2005
 HOBBS: 3111.0
 AFTT: 4245.4
 TSO: 50.7

REG: N399TC
 MODEL: BEECH P58
 S/N: TJ294
 RIGHT ENG. S/N: 518141

COMPLIED WITH ANNUAL INSPECTION ON ENGINE AND FOUND TO BE IN AIRWORTHY CONDITION.
 WORK ACCOMPLISHED AS FOLLOWS:

- 1) COMPRESSION CHECK: # 1 73/80 #2 75/80 #3 72/80 #4 74/80 #5 75/80 #6 74/80.
- 2) SERVICED ENGINE WITH PHILLIPS 20W50. REPLACED OIL FILTER (CH48-108).
- 3) CLEANED REGAPPED AND ROTATED SPARK PLUGS.
- 4) DEGREASED ENGINE AND LUBRICATED CONTROLS.
- 5) RUN UP AND LEAK CHECKED ENGINE OK.
- 6) CHECKED ALL AD'S THROUGH ISSUE 06-08 AND BY WEEKLY. SEE AIRCRAFT RECORDS FOR COMPLETE LISTING.

MAINTENANCE RELEASE: THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IN ACCORDANCE WITH APPLICABLE AIRCRAFT, ENGINE, AND OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS.

Eleazar Gonzalez
 ELEAZAR GONZALEZ
 A&P 263792148 IA

American Aviation Inc.

Wilkes County Airport (UKF)

Date:	08-25-2005	Hobbs:	3072.3
Aircraft Reg:	N399TC	ACTT:	
Manufacture:	Continental	ACTC:	
Model No.:	TSIO-520-WB	TSO:	12.0
Serial No.:	518141	CSO:	

Performed Compression Check Of All Cylinders: #1 76/80, #2 72/80, #3 77/80, #4 75/80, #5 75/80, #6 76/80. Drained And Serviced Engine With 11 Qts. 100W Mineral Oil. Removed, Inspected And Replaced Oil Filter P/N: CH48108-1. Cleaned Engine And Cowling, Ground Ran Checked For Leaks.

Signature, *Robert A. Wislick*

Robert A. Wislick A/P 171549879

American Aviation Inc.

Wilkes County Airport (UKF)

Date:	09-27-2005	Hobbs:	3100.7
Aircraft Reg:	N399TC	ACTT:	
Manufacture:	Continental	ACTC:	
Model No.:	TSIO-520-WB	TSO:	40.4
Serial No.:	518141	CSO:	

Performed Compression Check Of All Cylinders: #1 76/80, #2 75/80, #3 76/80, #4 76/80, #5 75/80, #6 77/80. Drained And Serviced Engine With 11 Qts. Phillips 20W-50 X/C Oil. Removed, Inspected And Replaced Oil Filter P/N: CH48108-1. Cleaned Engine And Cowling, Ground Ran Checked For Leaks.

Signature, *Robert A. Wislick*

Robert A. Wislick A/P 171549879

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MAINTENANCE RECORD

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

SIGNATURE

LICENCE
NUMBER

American Aviation Inc.

Wilkes County Airport (UKF)

Date:	02-06-2006	Hobbs:	3107.7
Aircraft Reg:	N399TC	ACTT:	
Manufacture:	Continental	ACTC:	
Model No.:	TSIO-520-WB	TSO:	47.4
Serial No.:	518141	CSO:	

Performed Compression Check Of All Cylinders; #1 63/80, #2 67/80, #3 61/80, #4 64/80, #5 66/80, #6 66/80. Drained And Serviced Engine With 11 Qts. Phillips 20W-50 X/C Oil. Removed, Inspected And Replaced Oil Filter P/N: CH48108-1. Cleaned Engine And Cowling, Ground Ran Checked For Leaks.

Signature, *Robert A. Wislick*

Robert A. Wislick A/P 171549879

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

[illegible]

BROUGHT
FORWARD

American Aviation Inc.

Date:	08-18-2006	Hobbs:	3114.7
Aircraft Reg.:	N399TC	ACTT:	
Manufacturer:	Continental	ACTC:	
Model No.:	TSIO-520-WB	TSO:	54.4
Serial No.:	518141	CSO:	

Wilkes County Airport (UKF)

Performed Compression Check Of All Cylinders; #1 72/80, #2 68/80, #3 68/80, #4 68/80, #5 68/80, #6 69/80. Drained And Serviced Engine With 11 Qts. Phillips 20W-50 X/C Oil. Removed, Inspected And Replaced Oil Filter P/N: CH48108-1. Serviced All Spark Plugs. Cleaned Engine And Cowling, Ground Ran Checked For Leaks.

Signature, Robert A. Walsh

Robert A. Wislick A/P 171549879

[illegible]

American Aviation Inc.

Date:	04-03-2007	Hobbs:	3145.5
Aircraft Reg.:	N399TC	ACTT:	
Manufacturer:	Continental	ACTC:	
Model No.:	TSIO-520-WB	TSO:	85.2
Serial No.:	518141	CSO:	

Wilkes County Airport (UKF)

Performed Compression Check Of All Cylinders; #1 68/80, #2 70/80, #3 70/80, #4 70/80, #5 68/80, #6 71/80. Drained And Serviced Engine With 11 Qts. Phillips 20W-50 X/C Oil. Removed, Inspected And Replaced Oil Filter P/N: CH48108-1. Cleaned Engine And Cowling. Ground Ran Checked For Leaks.

Signature, Robert A. Wulke

Robert A. Wislick A/P 171549879

TOTAL THIS PAGE		
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TOTAL SINCE MFG.		

MAINTENANCE RECORD

11

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

SIGNATURE

LICENCE
NUMBER

American Aviation Inc.

Wilkes County Airport (UKF)

Date:	05-24-2007	Hobbs:	3152.4
Aircraft Reg.	N399TC	ACTT:	
Manufacture:	Continental	ACTC:	
Model No.:	TSIO-520	TSO:	92.1
Serial No.:	518141	CSN:	

Performed annual inspection Per. FAR 43 Appendix "D" Scope & Detail, With Reference To 58P Baron Inspection Guide. Checked Cylinder Compressions: #1 70/80, #2 68/80, #3 70/80, #4 69/80, #5 68/80, #6 69/80. Serviced All Spark Plugs. Performed Engine Fuel System Setup Procedures IAW Continental SID 97-3E. Lubricated Waste Gates And Controls. Ground Ran Engine Operational Checks And Leak Checks Good.

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

Signature: Robert A Wislick Robert A. Wislick IA 171549879

American Aviation Inc.

Wilkes County Airport (UKF)

Date:	09-03-2007	Hobbs:	3170.3
Aircraft Reg.	N399TC	ACTT:	
Manufacture:	Continental	ACTC:	
Model No.:	TSIO-520-WB	TSO:	110.0
Serial No.:	518141	CSO:	

Drained And Serviced Engine With 12 Qts. Phillips 20W-50 X/C Oil. Removed, Inspected And Replaced Oil Filter P/N: CH48108-1. Cleaned Engine And Cowling, Ground Ran Checked For Leaks.

Signature: Robert A Wislick Robert A. Wislick A/P 171549879

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

[illegible]

MAINTENANCE RECORD

12

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

SIGNATURE

LICENCE
NUMBER

American Aviation Inc.

Wilkes County Airport (UKF)

Date: 07-30-2009 Hobbs: 3252.3
Aircraft Reg. N399TC ACTT: 4386.3
Manufacture: Continental ACTC:
Model No.: TSIO-520 TSO: 192.0
Serial No.: 518141 CSN:

Performed annual Inspection Per. FAR 43 Appendix "D" Scope & Detail, With Reference To 58P Baron Inspection Guide. Checked Cylinder Compressions: #1 70/80, #2 68/80, #3 70/80, #4 68/80, #5 66/80, #6 67/80. Drained & Serviced Engine With 12 Qts. Philips 20w-50 X/C Oil. Removed, Inspected And Replaced Oil Filter (48-108). Installed 6 New Spark Plugs Part No. URHB32E In All Cylinders "Top Position". Lubricated Waste Gates And Controls. Ground Ran Engine Operational Checks And Leak Checks Good.

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

Signature, *Robert A. Wislick*

Robert A. Wislick IA 171549879

American Aviation Inc.

Wilkes County Airport (UKF)

Date: 07-09-2010 Hobbs: 3283.5
Aircraft Reg. N399TC ACTT:
Manufacture: Continental ACTC:
Model No.: TSIO-520 TSO:
Serial No.: 518141 CSO:

Drained & Serviced Engine With 12 Qts. Phillips 20w-50 X/C Oil. Removed, Inspected & replaced Oil Filter (48108). Cleaned engine & Cowling, Ground Ran Checked For Leaks.

Signature, *Robert A. Wislick*

Robert A. Wislick A/P 171549879

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

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

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American Aviation Inc.

Wilkes County Airport (UKF)

Date: 10-28-2010 Hobbs: 3302.1
 Aircraft Reg. N399TC ACTT: 4436.1
 Manufacture: Continental ACTC:
 Model No.: TSIO-520 TSO: 241.8
 Serial No.: 518141 CSN:

Performed annual Inspection Per. FAR 43 Appendix "D" Scope & Detail, With Reference To 58P Baron Inspection Guide. Checked Cylinder Compressions: #1 68/80, #2 67/80, #3 65/80, #4 68/80, #5 69/80, #6 69/80. Serviced All Spark Plugs. Performed Engine Fuel System Setup Procedure IAW Continental SID 97-3E. Lubricated Waste Gates And Controls. Ground Ran Engine Operational Checks And Leak Checks Good.

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

Signature, *Robert A. Wislick*

Robert A. Wislick IA 171549879

American Aviation Inc.

Wilkes County Airport (UKF)

Date: 12-08-2010 Hobbs: 3298.4 ?
 Aircraft Reg. N399TC ACTT:
 Manufacture: Continental ACTC:
 Model No.: TSIO-520 TSO:
 Serial No.: 518141 CSO:

Drained & Serviced Engine With 12 Qts. Phillips 20w-50 X/C Oil. Removed, Inspected & replaced Oil Filter (48108). Cleaned engine & Cowling, Ground Ran Checked For Leaks.

Signature, *Robert A. Wislick*

Robert A. Wislick A/P 171549879

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MAINTENANCE RECORD

13

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
Hobbs 3306.5 AFTT- 4440.5 Rt Eng TT- 2560.8 Rt Eng TSMOH- 246.2	Drained oil. Replaced oil filter. Cut open old filter. No material found @ this time. Added 11 qts Phillips 20W50 oil. Cleaned insp, regapped all 12 spark plugs. Magneto op. Ign lead test ok. Comp test results 1+ Eng ^{72/100} 2+ Eng ^{72/100} 3+ Eng ^{72/100} 4+ Eng ^{72/100} 5+ Eng ^{72/100} 6+ Eng ^{72/100} 7+ Eng ^{72/100} 8+ Eng ^{72/100} 9+ Eng ^{72/100} 10+ Eng ^{72/100} 11+ Eng ^{72/100} 12+ Eng ^{72/100} Rt Eng ^{167/100} ^{269/100} ^{369/100} ^{470/100} ^{571/100} ^{667/100} POD 46 Induction air filters insp ok. Lubricated waste gate. Lubricated eng controls. Ground run / ops ok / leak ok all ok @ this time.	
AD's checked See summary	TEAM TSIO-520-WB	A/C REG. # <u>N399TC</u> DATE <u>01 Feb 13</u> TOTAL A/C TIME <u>4440.5</u> HRS. TACH TIME S/N <u>518141</u> Hobbs 3306.5 I CERTIFY THAT THIS A/C HAS BEEN INSPECTED IN ACCORDANCE WITH AN (CIRCLE ONE) ANNUAL / 100 HR INSPECTION AS PER <u>FAR 43.17</u> AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. <u>Paul Murphy</u> A/P 28165931A SIGNATURE CERTIFICATE NO/TYPE

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.