

Engine Record General Information

Manufacturer CONTINENTAL Model GTS10-520-Nc McL
Serial 610038 Type Certificate _____
This engine is currently installed in aircraft N31C

Minimum Octane Fuel _____ Oil Grade: Summer _____ Winter _____
Magneto Time _____ Point Setting _____ Firing Order _____
Spark Plug Gap _____
Manufacturer recommended overhaul at 1600 hours

4-26-98

Notes

This Engine installed in 14-21C - N31C
on Left Side after overhaul - Ted Rock
JK Miller AP2179044

DATE 1996	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.)
				Date 4-26-96 Time 1468.7 I certify that this aircraft/engine has been inspected in accordance with annual inspection and was determined to be in airworthy condition.
				John Peter HP 21776441 IP
				Mag changed 1390. HOBBS
				Alt changed 1390. HOBBS
				Vec Pump 1284. HOBBS
				Ground & accom 1452.7
				Hoist kit - 1452.4

SAS Spectrum Aircraft Services

DATE: 4/25/96
19 _____
9623 West Terminal Drive • San Antonio, Tx 78216 TT: 1468.7
(210) 834-2813 ext. 5233 • 1-800-217-2313 ext. 5233 TSMO: 00.00
BAX (210) 834-2850 TCM ENGINE GTSI0520L
S/N : 610038 LEFT ENGINE

Repair

Engine Major Overhauled according to TCM Overhaul Manual X30045-A. Case overhauled by AJAX AVIATION, San Antonio, TX. to factory new dimensions. All Cylinder Base Studs replaced new. All new Plugs and Bearings. All Cylinders replaced with new Rebarrel Cylinders, 646100. Replaced 6ea. Intake Valves 539988. Replaced 6ea. Exhaust valves 646286. Replaced 6ea. Valve Springs 637837. Replaced 6ea. Valve Rotators 629117. Replaced 24 Valve Keepers 24802. Replaced 6ea. Valve Seals 641952-A1. Replaced Washer Tab 24 ea. 501868. Replaced 6ea. Rebushed Rocker Arms 652966. Replaced 12ea. Rocker Shaft 631815. Replaced all 6 Rods with 646437-A1 with overhauled units. Replaced 12ea. Bolts 631794. Replaced 12ea. Cotter Pins AN381-25-10. Replaced 12ea. Rod Bearings 630826 M10. Replaced 6ea. Valve Springs 631521. Replaced 4ea. Bearings 630571 M10. Replaced all 6 Piston Pins 630046.

(1 of 3)

SAS Spectrum Aircraft Services

9628 West Terminal Drive • San Antonio, Tx 78216 Repair

(210) 624-2318 ext. 8233 • 1-800-827-2318 ext. 8233

fax (210) 624-8222

DATE Replaced Pistons 646303, WT.1538
19 Gráms. Replaced Rings SA5000A5, STD.
Camshaft overhauled to Factory new dimensions 646273. Replaced 6ea.
Lifter 628488. Replaced 6ea. Exhaust Lifters 646277. Replaced Woodriff Key MS35756-8. Camshaft Gears magnafluxed O.K. Crankshaft magnafluxed, cleaned & polished. All Counter WT. Bushings changed - work accomplished by E.C.I. All Counter WTS. changed SB90-12. All new Counter WT. Pins 643626-104, 12ea. Replaced all 24ea. Counter WT. Plates 631808. Replaced C/W Retaining Rings 24ea. 629004, C/WT Weight 812 Grams. Changed Crankshaft Gear & Starter Drive ASSBLY. according to SB94-4. Prop Shaft magnafluxed & polished to new Factory STD. Dimensions. Replaced Thrust Washers 4ea. 646260. Replaced Prop Seal 638161. Replaced Plates on ALT Drive Gear & Bolts, 641909 & 634080. Replaced Oil Transfer Tube Sleeve 629296. Replaced "O" Ring AN123862. Replaced 4ea. Prop Shaft Bearing STD. 630464. Replaced 4ea. Intermediate Shaft magnafluxed & polished to Factory new STD. Dimensions. Replaced all 8ea. Crankshaft Bearings 634503 M10.

(2 of 3)

Spectrum Autotech Services

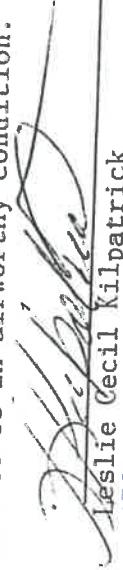
9223 West Terminal Drive • San Antonio, Tx 78216 or Repair

(210) 622-2211 • 1-800-227-3113 • 2217

FAX (210) 622-2217

- Replaced Magneto Harness. Replaced DATE Spark Plugs with RHB32E. Removed 19 all Fuel Nozzels for cleaning and flow check. Disassembled Oil Pump - Cleared & Checked Gears & checked O.K.
- Replaced Spring & Re-assembled with New Gaskets & Seals. Replaced Seals in Mag Drive Plates. Cleaned Oil Cooler & Pressure Checked for leaks - Checked O.K. Cleaned & aligned Intercooler. All Intake Tubes cleaned & aligned. All Fuel, Oil & Vacuum to Deice Hoses all changed with new Assemblies. C/W SBM92-9 by installing 12ea. Nuts 652541 & torques to 790-810 inch lbs. Replaced all Gaskets, Seals, & Hoses.
- Crankcase Vent Housing Asmbly. cleaned & painted. END
- LEFT MAG 26 SINCE OVERHAUL.

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


Leslie Cecil Kilpatrick

DATE 1996	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.)
4/18/96	141-857			Filled with 13 qt gear oil 50wt mon oil & Filter changed CH48111 Test Run & OK for Flight to Service
				Flight tested & PA17964410
				F-18-96 TACH RESEAL TACH DRIVE ADAPTER REPLACE WITH NEW NUTS - PRESS. CT. OK Chase Q-Site AP2013572

14. NEW — — —		15. SIGNATURE: 		16. FAA Authorization No.: 20. Authorized:	17. NAME (typed or printed): Richard	18. DATE: 22. Name (typed or printed): Richard
<p>Limited life parts must normally be accompanied by maintenance history including total time/lot 13 was (were) manufactured in accordance with FAA approved design data and airworthiness re- NOTE: In case of parts to be exported, the special requirements of the importing country mect.</p>						

DATE 19	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.)
8-19-96	TTA 3268.4	HOBBS 0060.7	CHANGED OIL & FILTER SERVICED WITH SHELL W100 - 12 QTS - COMPLETED VISUAL INSPECTION OF ENGINE - RUN ENG - PRESSURE & LEAK CHECK OK	Justin Goodwin AFM 493966228
9-13-96	TTA 3276.5	HOBBS 68.3	REMOVE & REPLACE INOPERABLE ALTERNATOR WITH NEWLY OVERHAULED UNIT RUN ENG - OP'S CK OK	Justin Goodwin AFM 493966228

nician or Rep.

DATE 10-24	RECORDING TACH TIME 79.3	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
10-24	79.3			REMOVED ALL INTAKE AND EXHAUST LIFTERS FOR TESTING AND ADJUSTING THE BLEED DOLYH RATE BY AIRCRAFT SPECIALTIES INC CRS# DD2R764K REINSTALLED LIFTERS WITH NEW GASKETS, LOCKS & SEALS. CHECKED VALVE LIFTER DRY CLEARANCE AND FOUND WITHIN TCM LIMITS. REMOVED FUEL INJECTION MANIFOLD AND NOZZLES FOR FLOW TESTING. ONE NOZZLE REPLACED DUE TO BEING CRACKED. REINSTALLED COMPONENTS. REMOVED BOTH MAGNETS FOR DRIVE COUPLING PADS INSPECTION. INSTALLED NEW DRIVE RUBBER BUSHINGS AND REINSTALLED AND TIMED MABS TO ENGINE. ENGINE GROUND RUN, AFC FLOWN AND ENGINE APPROVED FOR RETURN TO SERVICE. SEE ATTACHED RELEASE TAG. <i>See</i>

DATE 19	RECOR TACH TIME

DATE 19	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.)
<p>Date <u>12-6-96</u> Time <u>3317-7 JIA</u> Robbs 110,0 & TSMON</p> <p>I certify this <u>ENGINE</u></p> <p>has been inspected in accordance with a <u>100 HR</u></p> <p>inspection and was determined to be in an airworthy condition.</p> <p><u>Arnold O. Sibley #P203572</u></p> <p>Signature</p> <p>Springfield Aircraft Charter and Sales</p> <p>W/O# <u>2759</u> C.H.O. SERV. INJECTORS & PLUGS</p>				

DATE 19—	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.)
23				to be in an airworthy condition. Inspection done using Cessna 421C service manual. Check list A-2-10½ 2-20 22. End
24	4-28-97	HOBBS 0194.7	ITA 3402.5	HOUR METER RAN WHILE AIRCRAFT ON JACKS - HOUR METER PROGRESSED 227.2 63.2 3402.5 32.4 HRS - NOW READS 0227.2 - THIS TIME NOT ADDED TO TOTAL TIME - ITA 3402.5 Just. Goodman A#P 493966-228
25				
26				
27				
28				
29				
30				
31				
1				
2				

DATE 19	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.)
7-10-97	TA 3438.8			HOUR METER RAN WHILE AIRCRAFT ON JACKS - HOUR METER NOW READS 0230.4 AT TOTAL TIME 3438.8 - TOTAL TIME NOT AFFECTED Justin Goodwyn AF#493966228
	H.M. 290.4	18.3		
7-22-97	TA 3457.1			COMPLETED WITH S.B. (CSB97-9 BY REMOVING 7TH STUD NUT + BRACKET + PERFORMING A VISUAL + DYE PENETRANT INSPECTION AS PER CSB97-9 - AFT ALTERNATOR STUD ALREADY INSTALLED - OPS CK OK Justin Goodwyn AF#493966228
	H.M. 303.7	11.7		

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.)
19				
7-31-97	0320.4		3468.8	CHANGED OIL & FILTER - SERVICED WITH SHELL W100 - 12 QTS - RAN ENG - PRES. CK. OK.
			37.9	<i>Justin Goodey AFM 493966228</i>
9-23-97	TTA	3506.7		CHANGED OIL & FILTER - SERVICED WITH SHELL W100 - 12 QTS - RAN ENG - PRES CK OK -
16	H M.	359.3		NO LEAKS FOUND - REPLACED O-RING AT WASTE-
PER	ComPR	1-76/2-70/3-66/4-73/5-65/6-71		GATE CONTROLLER FITTING - I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH A 100 HR INSP. AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION - <i>Justin Goodey AFM 493966228</i>

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DA
19.

Left Engine Log Book Entry By Yingling Aircraft Inc.

P.O. Box 9248, Wichita, KS 67277 FAA CRS BWRR668C
For: N31C, 421C-0096

Recorded Hours:	450.1	Aircraft Total Time:	3598.5
Engine Total Time:	3781.50	Eng. Time Since Overhaul:	390.0

Completed an Annual Inspection at this time. Drained the engine oil, installed a new oil filter and serviced the engine with Aeroshell W80. Checked the cylinder compression and magneto timing. Installed all new spark plugs. Cleaned the fuel metering unit screen, the injection nozzles, and the induction air filter element. Installed a new support bracket for the fuel distributor valve. Installed an overhauled 642343 cylinder assembly in the # 6 position. Installed a new exhaust clamp between the turbo and the overboard exhaust stack.

I certify this Engine has been inspected in
accordance with an Annual Inspection and is presently
Airworthy and Approved for Return to Service
Yingling Aircraft, Inc. Wichita, Kansas
FAA CRS# BWRR668C W.O. 12657/12708

Rec. Hrs. 450.1 Date 02-10-98

Model GTSIO520L
S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N
LFT **POWERPLANT LOGBOOK INSERT**

DATE: 4/27/88
W.O.# 2252
TACH.
HOBBS 481.1
SMOH
TT

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

Date: 4/27/98

Signed

Changed oil and filter, performed visual inspection of exhaust system.
Serviced with Aeroshell W 100 50 wt. Inspected air filter, ok.
Run up satisfactory, approved for return to service.

END

Model GTSIO520L
S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

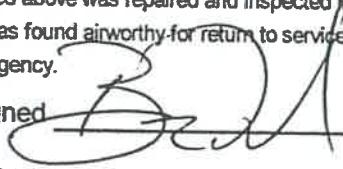
4001 SANTA ANITA AVE.
EL MONTE, CA 91731

LFT **FAA Approved Repair Station No. B1TR142N**
POWERPLANT LOGBOOK INSERT

DATE: 5/5/98
W.O.# 2223
TACH.
HOBBS 459.1
SMOH
TT

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

Date: 5/5/98

Signed 

Performed 50 hr. inspection, cleaned and gapped plugs, checked magneto timing. Inspected exhaust system, and fuel system. Resealed #2 and #5 valve covers. Changed oil and filter, serviced with Aeroshell w100 50 wt. Run up satisfactory, approved for return to service.
END

DA

19.

Model GTS10520L
S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

LFT
FAA Approved Repair Station No. B1TR142N
POWERPLANT LOGBOOK INSERT

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

Date: 5/15/98

Signed

Repair
DATE: 5/15/98
W.O.# 2278
TACH.
HOBBS 509.6
SMOH
TT

Changed oil and filter, performed visual inspection of exhaust system.
Serviced with Aeroshell W 100 50 wt. Inspected air filter, ok.
Run up satisfactory, approved for return to service.

END

D Model GTSIO520L
11 S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA 91731

FAA Approved Repair Station No. B1TR142N
POWERPLANT LOGBOOK INSERT

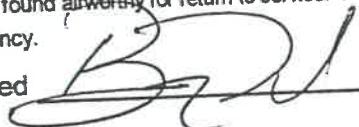
LFT

DATE: 12/10/98 for Repair
W.O.# 2331
TACH. _____
HOBBS 549.4
SMOH 489.3
TT 3880.8

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

Date: 12/10/98

Signed


Performed 100 hr. inspection per TCM service manual and FAR 43,
addx. D. Comp. test ; #1 72, #2 72, #3 72, #4 68, #5 74, #6 75.

DATE

19 Model GTSIO520L
S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

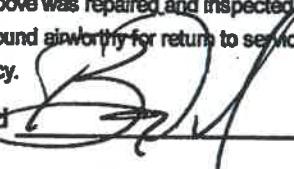
4001 SANTA ANITA AVE.
EL MONTE, CA 91731

LFT **FAA Approved Repair Station No. B1TR142N**
POWERPLANT LOGBOOK INSERT

DATE: 1/26/99
W.O.# 2404
TACH.
HOBBS 581.1
SMOH
TT

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

Date: 1/26/99

Signed 

Performed 25 hr. inspection, Inspected exhaust system by pressure test.
Changed oil and filter, serviced with Aeroshell W 100 50 wt.
Run up satisfactory, approved for return to service.

END

Model GTS10520L
S/N 810038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA 91731

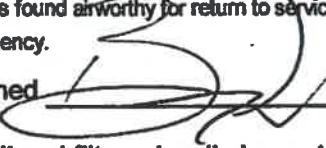
LFT **FAA Approved Repair Station No. B1TR142N**
POWERPLANT LOGBOOK INSERT

DATE: 3/22/99
W.O.# 2429
TACH.
HOBBS 602.6
SMOH
TT

for Repair

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

Date: 3/22/99

Signed 

Changed oil and filter, visually inspected exhaust system. Found turbo charger to be leaking oil on hot side. Removed turbo for overhaul by Approved Turbo Components, see W.O. 16611 and form 8130-3. Installation was in accordance with Cessna service manual, and Garrett, service manual. Serviced with Aeroshell W 100 50 WT. Removed propeller governor for reseal by True Speed Governor Shop, see yellow tag. Run up satisfactory, approved for return to service.

END

DA1

19- Model GTSIO520L
S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N
LFT POWERPLANT LOGBOOK INSERT

DATE: 4/30/99
W.O.# 2454
TACH.
HOBBS 631
SMOH
TT

Repair

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

Date: 4/30/99

Signed

Changed oil and filter, opened filter for inspection. Removed fuel injectors to clean. Serviced with Aeroshell W 100 50 wt. Run up satisfactory, approved for return to service.

END

DA

19

Model GTSIO520L
S/N 610038
N# 31C

LFT

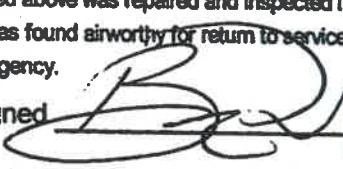
BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N
POWERPLANT LOGBOOK INSERT

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

Date: 9/9/99

Signed 

Changed oil and filter, opened filter for inspection. Inspected exhaust system. Installed new EGT probe on #5 cylinder. Run up satisfactory, approved for return to service

END

DATE: 9/9/99 Repair
W.O.# 2555
TACH.
HOBBS 665
SMOH
TT

DATA

19

Model GTSIO520L
S/N 610038
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

LFT **FAA Approved Repair Station No. B1TR142N**
POWERPLANT LOGBOOK INSERT

DATE: 1/12/00
W.O.# 2603
TACH.
HOBBS 690.3
SMOH 630.2
TT 4021.7

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

Date: 1/12/00

Signed

Performed 100 hr. inspection per TCM service manual and FAR 43, apdx. D. Comp. test; #1 75, #2 66, #3 73, #4 70, \$5 73, #6 72.
Fuel system, induction system, and

DATE 19	RECORDING TACH TIME	TODA FLIGI	LOG BOOK ENTRY FOR N31C LEFT ENGINE	Repair
			OCTORBER 9, 2000 HOBBS 750.0 SMOH CURRANT HOBBSMINUS CORRECTIONS 4-28-97 AND 7-10-97 TOTAL CORRECTION MINUS 59.3 SMOH 690.7 TT 4081.4	
			ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH FAR 43 APPENDIX D.	
			COMPRESSION OVER 80 PSI	
			AD 76-02-07 EFF DATE FEB 2, 1996 (PRESTOLITE ALTERNATOR)	
			N/A BY MODEL #	
			AD 2000-01-16 EFF DATE FEB 15, 2000 (EXHAUST INSPECTION)	
			SEE AIRFRAME LOG BOOK THIS DATE.	
			SPARK PLUGS RELACED WITH NEW RHB 32E.	
			OIL AND FILTER CHANGED, SERVICED WITH AEROSHELL 15/50W.	
			I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE AIRWORTHY.	
			RICHARD PATSHKOWSKI A&P/IA 1909051	
			<i>Richard Patshkowski</i>	

DATE 19	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.)
12-12-00	Hobbs 786.5			OIL & FILTER CHANGED SERVICED (WITH ACCES. 1550W) RICK HORN 10/14/00
2-27-2001	Hobbs 818.0			OIL & FILTER CHANGED, SAMPLE TAKEN SERVICED (WITH ACCES. 100W) C/W RD 2000-01-16, BG VISUAL FNS. RICK HORN 10/14/00

DATE	RECORDING TACH	TODAY'S FLIGHTS	TOTAL	Description of Inspections, Tests, Repairs and Alterations	Signature of Technician or Repair Personnel
19				LOG BOOK ENTRY FOR N31C RIGHT ENGINE Less	
				JULY 3, 2001 HOBBS 867.8	
				INSTALLED TWO NEW FACTORY REMAN BLUE LABLE MAGNETOS AND A NEW SLICK IGNITION HARNESS. ENGINE TEST RUN OK.	
				<i>Richard Patshkowski</i> RICHARD PATSHKOWSKI A&P 1909051	
7-17-2001	879.3			REMOVED WASTE GATE S/N KN0128 INSTALLED OVERHAULED UNIT FROM MAIN TURBO. S/N XA000269.	
				<i>Richard Patshkowski</i> A&P 1909051	

Corporate Air Technology
1250 Aviation Avenue, Suite 125
San Jose, California 95110
CRS AU8R384L

air

December 7, 2001 N810 Tech: Hobbs: 900.1
Cycles: Total Time: 4048.5
ANNUAL INSPECTION COMPLETED, C/W AD 00-01-16 par(b) VISUAL INSP (next due@0908)
C/W AD00-01-16 par(c)&(e) PRESS TEST & TAILPIPE INSP (next due@12-02/4143hrs),
C/W TCM CSB97-9 CRANKCASE INSP (next due@4098hr), C/W TCM CSB98-18 VALVE INSP.
CHANGED OIL AND FILTER, SERVICED WITH AEROSHELL 100W, CLEANED AND GAPPED PLUGS
CLEANED FUEL NOZZLES, WASHED RAN AND LEAK CHECKED. COMPRESSION CHECK #1=66,
2=70, #3=66, #4=70, #5=65, #6=72

I certify that this LH ENGINE has been inspected in accordance with a ANNUAL inspection and was determined to be in airworthy condition. Work Order #: 18944

4

Corporate Air Technology

1085 AUG 23 1946

SA 1993

DATE 19	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.)
		January 16, 2002 N31C Cessna 421C S/N: 421C0096 Tach: 903.7	AFTT: 4052.9	<p>Mather Aviation LLC Mather Airport FAA CRS No. PCPR439B WO# 406222</p> <p>This is a permanent part of the Left Engine records.</p> <ol style="list-style-type: none"> 1. C/W differential compression test 1) 70/80, 2) 66/80, 3) 70/80, 4) 66/80, 5) 65/80, 6) 70/80. 2. Opened and inspected the engine oil filter, no defects noted. New oil filter installed and safetied. <p>Technician: L. Olivares, S. Heller This aircraft is approved for return to service only with respect to the work performed.</p> <p>Inspector: <u>John Verderber</u> John Verderber CRS# PCPR439B</p>
© ASA 1993				

DATE

19

Corporate Air Technology
1250 Aviation Avenue, Suite 125
San Jose, California 95110
CRS AUSRG334L

Repair

March 1, 2002 NS10 Tach: Hrs: 605.5

Cycles: Total Time: 4053.9

REPLACED ALL FLAMMABLE FLUID CARRYING HOSES WITH NEW HOSES FROM AIR-PRO INC.
HOSE KIT # 04210 (HOSES DATED 2-22-02 NEXT DUE 2-22-07), SECURED ALL HOSES
WITH CLAMPS AND OR TY-WRAPS AS NECESSARY, WASHED ENGINE FAN AND LEAK CHECKED.

The aircraft, airframe, aircraft engine, propeller, or appliance identified above was received
and inspected in accordance with current regulations of the Federal Aviation Administration and
is approved for return to service. Particular details of the repair are on file at this repair
station under Work Order # 19417

X *D. McEachern*
Corporate Air Technology

CRS AUSRG334L

©ASA 1993

March 15, 2002
N31C Cessna 421C
S/N: 421C0096
Meter: 909.2

Mather Aviation LLC
Mather Airport
AA CRS No. PCPR439B
WO# 406379

Technician or Repair

This is a permanent part of the Left Engine records.

1. Drained oil and changed filter. Took oil sample. Opened oil filter, no defects noted. Serviced with Aeroshell 15W50 Oil.
2. C/W fuel flow set up in accordance with SID 97-3 . Adjusted as required.
3. Installed new oil cap retaining cable.
4. Secured oil breather line and canister form chafing, by installation of new mount clamp.
5. Removed fuel nozzles and cleaned. Reinstalled with new gaskets and O rings. Installed 4 new upper deck reference risers on the engine with new seals.
6. Removed intercooler and cleaned RTV off the mating surface. Installed new intercooler O ring and reinstalled.

Technician: C. Jones, M. Rotar

This aircraft is approved for return to service only with respect to the work performed. *B. Hill*

Inspector:

John Verderber
CRS# PCPR439B

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DATE	RECORDING TACH TIME
19	May 1, 2002 N31C Cessna 421C S/N: 414A-0825 421C0096 ✓ A.F.T.T: 4059.3

Mather Aviation LLC
Mather Airport
FAA CRS No. PCPR439B
Meter: 910.9 ETSO: 851.6 WO#: 406409

ician or Repair

This is a permanent part of the Left Engine Records.

1. Complied with an Annual Inspection as per Mather Aviation LLC Checklist MA100ME, and FAR 43 Appendix D.
2. Complied with Cylinder differential compression test I/A/W TCM SB M84-15: #1) 67/80, #2) 61/80, #3) 68/80, #4) 60/80, #5) 70/80, #6) 63/80.
3. No oil change at this time
4. Installed serviceable exhaust wye, and gaskets. Installed new heat shield clamp.
5. Removed waste gate bellows and installed new gaskets. Reinstalled bellows and safetied.
6. C/W pressure test of the exhaust system after reassembly.
7. Repositioned fuel flow transducer to prevent chafing.
8. Installed new clamp on the lower fire detector.
9. Installed an overhauled starter adapter P/N 635050A8 S/N 23271, with a new mount gasket.
10. Installed overhauled starter, P/N 646275-1RX S/N A-165697.
11. Tightened rear fitting on the oil filter adapter. No leaks noted at run up.
12. Secured wire bundles and hoses to prevent chafing as required.
13. Safetied turbo controller screws.

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DATE 19 ____	RECORDING TACH TIME	TODAY'S	TOTAL	Description of _____	Technician or Repair
				14. Installed serviceable fuel pump P/N 646210-3 S/N A039111BR from Western Skyways FAA CRS WS9R	
				15. Rigged propeller and mixture controls to math	
				16. Completed turbo controller set up and fuel pressure set up as per TCM Service Bulletin 97-3A	
				Technician: D. Christensen, D. DuMond, R. Vaughan, M. Rotar	
				This aircraft is approved for return to service only with respect to the work performed.	
				Inspector: <u>John Verderber</u>	
				John Verderber	
				CRS# PCPR439B	
				May 1, 2002	ETSO: 851.6
				I certify that this engine has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in an airworthy condition, and is approved for return to service.	
				Inspector: <u>John Verderber</u>	
				John Verderber	
				CRS # PCPR439B	

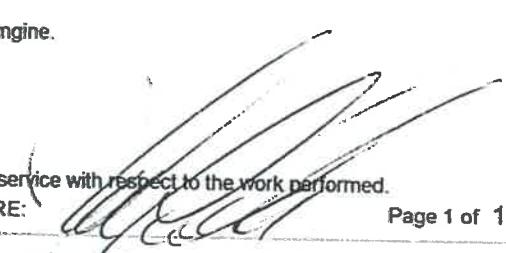
DATE 19	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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CUTTER ALBUQUERQUE	AVIATION, INC.	REG # N31C	DATE 5/22/03
FAA Repair Station GMZ2383E		S/N 0096	W/O M7981
505 842-4184		HM 36.6	AFTT NA

1. Installed overhauled cylinder L/H engine number one location, S/N AT-14649.
2. Removed and inspected starter adapter, installed with new starter adapter gasket.
3. Installed new gasket for oil filter adapter.
4. Changed oil and oil filter, serviced engine with Aershell 15w/50 oil to 12 qts. L/H engine.
5. Installed new L/H engine tach/gen drive seal.
6. Installed overhauled tach/gen P/N 22A667 S/N AT14649. L/H engine.
7. Installed new L/H HYD pump drive garloc seal.
8. Operational and leak checked.

This engine and/or component is certified to be airworthy for return to service with respect to the work performed.

John Cekala

SIGNATURE: 

Page 1 of 1

DATE	RECORD TACH TIME
19	May 2, 2003
	N31C Cessna 421C
	S/N: 421C096
	A.F.T.T: 4133.3
	Meter: 29.9
	FAA CRS No. PCPR439B
	ETSO: 926.3
	WO#: 407331
This is a permanent part of the Left Engine Records.	
<ol style="list-style-type: none"> 1. Complied with an Annual Inspection as per Mather Aviation LLC Checklist MA100ME, and FAR 43 Appendix D. 2. Complied with Cylinder differential compression test I/A/W TCM SB03-3: #1) 66/80, #2) 69/80, #3) 64/80, #4) 67/80, #5) 69/80, #6) 69/80. 3. Drained oil and changed filter. Serviced with Aeroshell 15W50 oil. Took oil sample and inspected removed filter. No defects noted. 4. Replaced left magneto P lead ring terminal. And repaired the retard wire ring terminal and ground attachment. 5. Installed doubler on the forward left engine baffle. 6. Replaced all injector O rings and rubber washers. 7. Replaced air / oil separator hose and rerouted wire chaffing the hose. 8. Stop drilled small crack in the turbo Wye heat shield.. 	
Technician or Repair	

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.)	DATE	05/23/03
19				REG # N31C S/N 421C0096 HM 36.5 TACH N/A	W/O	P0306
CUTTER AVIATION, INC. ALBUQUERQUE FAA Repair Station GM22383E 505 842-4184					AFTT	N/A
1. Installed over-hauled Tach generator on L/H engine PN MS25038-2, SN 106599. This aircraft and / or component is certified to be airworthy for return to service with respect to the work performed.						
Jose R. Ramos				SIGNATURE:  Page 1 of 1		
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SAS Spectrum Aircraft Services

9628 West Terminal Drive • San Antonio, Tx 78216
(210) 626-3618 ext. 5288 • 1-800-827-3618 ext. 5288
FAX (210) 626-3628

- AD-93-10-02 C/W At Overhaul 4-25-96
- AD-91-19-03 N/A Part NO.
- AD-88-03-06 N/A Part NO.
- AD-87-04-05 N/A Part NO.
- AD-86-13-04 N/A Part NO. & Serial NO. & New Rebarrel Cylinder Assembly
- AD-82-13-01 P/C/W Bendix Mag - 1200 Series
- AD-81-24-06 N/A Serial NO. - Fuel Pump
- AD-80-25-06R1 C/W at Overhaul, replaced Thrust Washers & End Play
within New Dimensions.
- AD-80-09-11 N/A New Starter Drive Assembly 4-25-96
- AD-79-05-09 P/C/W Checked 4-25-96
- AD-78-09-07-R3 N/A Model NO.
- AD-77-13-22 N/A Model NO. & Serial NO. & Heavy Case installed & case
Overhauled 4-25-96
- AD-75-09-13 N/A Model & Serial NO.
- AD-74-26-09 P/C/W Bendix Mag

SAS Spectrum Aircraft Serv.

DATE
19

9628 West Terminal Drive • San Antonio, TX
(210) 634-2818 ext. 5223 • 1-800-427-2114 ext. 4223
FAX (210) 624-8488

SBM73-6 C/W at Cylinder Overhaul
SBM77-14-R1 N/A Model
SBM77-9 P/C/W
SBM76-12 N/A No. Chrome Cylinders
SBM76-7 N/A Model
SBM76-4 C/W at Overhaul 4-25-69
SBM75-30 C/W at Overhaul & Every 100 Hours
SBM72-17 C/W at Overhaul All 6 Rods Wt. 1173 Grams
SBM71-20 N/A Model
SBM70-3 N/A Model
SBM67-5 N/A Model of Engine
SB93-8 C/W at Overhaul

(3 of 3)

DATE

19

SAS Spectrum Aircraft Services

9628 West Terminal Drive • San Antonio, Tx 78216
(210) 624-3818 ex. 5233 • 1-800-427-3818 ex. 5233
FAX (210) 624-9960

SBM88-8 C/W at Engine Build-up 4-25-96
SSBM88-7 C/W at Engine run-up
SBM87-11 C/W 100% Replacement Parts
SBM87-7 C/W at this time 4-25-96
SBM87-6 N/A "N" Model ONLY
SBM86-18 C/W Torque Limits New SB92-15 Torque Limits
SSBM86-7 N/A New Rebarrel Cylinder 4-25-96 & Serial No.
SBM85-18 C/W at Overhaul of Cylinders.
SBM85-11 C/W at Overhaul Replaced Complete Starter Drive Assembly.
SBM82-3 N/A Part No.
SBM81-27 N/A Superseded by Later Bulletin
SBM81-25 C/W at Engine Replacement Torque to 8.3 to 9.2 ft. lbs.
SBM81-15 Prestolite Alternators Installed
SBM80-9 N/A Model

(2 of 3)

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SAS Spectrum Aircraft Services

DATE

19/26

4/26

9323 West Terminal Drive • San Antonio, Tx 78215
(210) 624-2818 ext. 6288 • 1-800-327-2818 ext. 6238
FAX (210) 624-8850

DATE: 4/25/96

LEFT ENGINE: S/N 610038

SB-94-4 C/W 4-25-96
SB-92-9 C/W Replaced Nuts & New Torque
SBM91-9 C/W New Lubrications used
SBM91-6 C/W New Rebarrel Cylinder Assembly
SBM91-7 N/A Standard Cylinders
SBM90-17 N/A Case Overhauled 4-25-96
SBM90-16 C/W 4-25-96 7th Stud Improvement Installed Kit #ALT01800
SBM90-15 N/A Serial No.
SBM90-13 Valves Changed 4-25-96
SBM90-12 Counter Weight Change C/W
SBM89-17 C/W New Rebarrel Cylinder Assembly 4-25-96
SBM89-7 C/W at Engine Installation
SBM89-5 C/W Drive Coupling 646655
SBM88-11 C/W Later Ring Gap Information

(1 of 3)

DATE
18

SAS Spectrum Aircraft Services

9623 West Terminal Drive • San Antonio, Tx 78216
(210) 824-2313 ext 5288 • 1-800-327-2313 ext 5288
FAX (210) 824-2353

DATE: 4/27/96

LEFT ENGINE

TT:

Found Controller inoperable - exchanged for overhauled
unit...P/N 470836-3...S/N N1R0185.....

LESLIE CECIL KILPATRICK
AP2179644 IA

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