

Engine Record General Information

Manufacturer CONTINENTAL Model GTS10-520-L3B

Serial 272218-R Type Certificate _____

This engine is currently installed in aircraft N31C

Minimum Octane Fuel 100 Oil Grade: Summer 50WT Winter 50WT

Magneto Time 24° Point Setting _____ Firing Order _____

Spark Plug Gap 016

Manufacturer recommended overhaul at 1600 hours

4-26-96

Notes

This Engine Installed on 421C - H31C
on RT Side after overhaul - Test Run OK

D. J. Porter April 27, 1996

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DATE

SAS *Spectrum Aircraft Services*

DATE: 3/11/96

19

9623 West Terminal Drive • San Antonio, Tx 78211

TT: 1468.7

1 or Repair

(210) 834-2313 ext. 8233 • 1-800-837-3318 ext. 8233

TSMO: 00.00

FAX (210) 834-8258

TCM ENGINE GTSIO520L

S/N: 272218R Right Engine

4/26
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-As. Replaced Washer Tab 24ea. 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 STD. 630826. Replaced 6ea. Valve Springs 631521. Replaced 4ea. Bearings STD. 630571. Replaced all 6 Piston Pins 630046.

(1 of 3)

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DATE

1976

4/26

Replaced Pistons 646303, WT. 1538
Grams. Replaced Rings SA5000A5,
STD. Camshaft overhauled to
Factory new dimensions 646273.

Replaced 6ea. Lifter 628488.

Replaced 6ea. Exhaust Lifters 646277. Replaced Woodruff Key MS35756-
8. Camshaft Gears magnafluxed O.K. Crankshaft magnafluxed, cleaned,
& polished. All Counter WT. Bushings changed - work done 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 Assembly 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 STD. 634503.



Spectrum Aircraft Services

9628 West Terminal Drive • San Antonio, Tx 78211 Repair

(214) 834-3818 ext. 6388 • 1-800-827-3818 ext. 6388

FAX (214) 834-8888

DATE

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Replaced Magneto Harness, Replaced Spark Plugs with RHB32E. Removed all Fuel Nozzels for cleaning and flow check. Dis-assembled Oil Pump- cleaned & 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.

RIGHT MAG 242 HR. SINCE OVERHAUL.

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

(3 of 3)



Spectrum Aircraft Services

9628 West Terminal Drive • San Antonio, Tx 78216 Repair

(210) 834-3818 ext. 6388 • 1-800-617-3818 ext. 6388

FAZ (210) 834-3880

Leslie Cecil Kilpatrick

AP2179644 IA

Airport Complex
P O Box 273
Fort Deposit, AL 36022-0273
USA
334-227-8306
FAX 334-227-8596

ELECTROSYSTEMS, INC.

07140331

DATE

19

TIN

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.)

Executive Beechcraft STL inc.



Phone:
314-532-4800
CRS: DEBRI52D

N31C RIGHT ENGINE
S/N: 421C-0096
AIRCRAFT TOTAL TIME: 3240.4

DATE: 07-15-96
HOBBS: 20.3

REMOVED STARTER, P/N 646275, S/N 0-048991, AND INSTALLED
OVERHAULED ELECTROSYSTEMS STARTER, P/N E02060, S/N 5110851.
OPERATIONS AND LEAK CHECKED GOOD.

With respect to the work performed, this
ENGINE is determined to
be in airworthy condition and is approved for
return to service. Pertinent details of the repair
are on file at this repair station under S.O.

532550

Date 7-15-96

Signed [Signature]

Executive Beechcraft STL Inc.
Spirit of St. Louis Airport - 532 Beechcraft Drive
Chesterfield, MO 63005 - (314) 532-4800
FAA Certificated Repair Station No. DEBRI52D

DATE 19 <u>96</u>	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.)
<u>7-18-96</u>	<u>3240.</u>			REMOVE TACH DRIVE ADAPTER & REPAIRED STUDS. RESEALED & REINSTALLED WITH NEW NUTS & WASHERS - SERVICE & RUN CHECKED - NO LEAKAGE FOUND Charles D. Smith AP2013572
<u>8-19-96</u>	<u>TA 3268.4</u>			HOBBS 0060.7 CHANGED OIL & FILTERS SERVICED W/ SHELL W100 - 12 QTS - COMPLETED VISUAL INSPECTION OF ENGINE - RUN ENG - PRESS OIL LEAK CHECK OK Justin Wooding AP493966228

DATE 19__	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
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N31C RH ENGINE LOG.

CLEANED FUEL NOZZLES. ADJUSTED
THROTTLE BODY RIGGING, ADJUSTED VMAP TO
GET 39.5" SET FUEL PRESSURES IAW
TCM SB# M89-10

W/O #20220 DATE 8-22-96 HRS 61061H1

AUTOPILOTS, CENTRAL, INC.

TULSA, OK 741152

SIGNATURE

Ralph P. [Signature]

FAA CRSCM2R747K

DATE 19 96	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.)
24	7913	7913		BLEED DOWN ALL VALVE LIFTERS TO INSPECT DRY
				CLEARANCES. ALL FOUND WITHIN LIMITS. REMOVED ALL
				VALVE LIFTERS FOR INSPECTION AND ADJUSTMENT OF THE
				BLEED DOWN RATES BY AIRCRAFT SPECIALTIES SERVICES
				REPAIR STATION # DD2R764K. REINSTALLED LIFTERS &
				CHECKED CLEARANCES, INSTALLED WITH NEW SEALS,
				LOCKS & GASKETS. GROUND RUN ENGINE WITH
				CORRECT OPERATION. REMOVED PROP GOVERNOR
				DUE TO DEFECTIVE SYNC PROBE. GOVERNOR WAS
				REPAIRED AND BY EMI A/C ACCESSORIES. REINSTALLED
				REPAIRED GOVERNOR IN 750540. SEE ATTACHED
				RELEASE TAGS. APPROVED FOR RETURN TO SERVICE

DATE 1977	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.)
4-28-97	16665	194.8	773402.5	TS/NO 194.8 Serviced with 13 qts Aeroshell W100 and new (H&H) filter. Comp Check @ 70 @ 68 @ 74 @ 74 @ 74 Cleaned, oiled & rotated all spark plugs. Expositioned prop control cable and repaired wireless. Replaced missing nut on #6 cyl flange. Tightened all cyl manifold clamps. Secured loose airbox wedge. Finally that this engine was inspected in accordance with an Annual inspection and was determined to be in an airworthy condition. Inspection done using lesson 421

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cont.

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.)
				service manual Check list per 2-10 1/2 thru 2-20 p. 29. See AD compliance record on file. END J. J. Smith TAA 16626310
4-28-97		HOBBS	0194.8	TTA 3402.5 HOUR METER RAN WHILE AIRCRAFT ON JACKS DURING AN ANNUAL INSP. - HOUR METER PROGRESSED 32.4 HRS - NOW READS 0227.2 - THIS TIME NOT ADDED TO TOTAL TIME - TTA 3402.5 Justin Doddy ATP493966228

[illegible]

DATE 19 <u>97</u>	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.)
4-28-97	H666s	194.8	TT 3402.5	TS410 194.8 Serviced with 13 qts Aeroshell W100 and new CH48111 filter. Comp Check ①>0 ②60 ③>4 ④>4 ⑤>4 ⑥>4 Cleaned, oiled & rotated all spark plugs. Expositioned prop control cable and repaired wire where. Replaced missing nut on #6 exl flange. Tightened all exl nut and clamps. Secured loose aileron Assy. I certify that this engine was inspected in accordance with an Annual inspection and was determined to be in an airworthy condition. Inspection done using lesson 421

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cont.

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.)
				service manual Check list for 2-10 1/2 thru 2-20 & 29. See AD compliance record on file. END J. J. Smith IA166231D
4-28-97		HOBBS	0194.8	TTA 3402.5 HOUR METER RAN WHILE AIRCRAFT ON JACKS DURING AN ANNUAL INSP. - HOUR METER PROGRESSED 32.4 HRS - NOW READS 0227.2 - THIS TIME NOT ADDED TO TOTAL TIME - TTA 3402.5 Justin Dodson ATP493966228

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	TTA	3438.8		HOUR METER RAN WHILE AIRCRAFT ON JACKS- HOUR METER NOW READS 0290.4 AT TOTAL TIME 3438.8 - TOTAL TIME NOT AFFECTED <i>Justin Gooding AIP 493966228</i>
7-22-97	TTA	3457.1		COMPLIED WITH S.B. CSB97-9 BY REMOVING 7TH STUD NUT & BRACKET & CONDUCTING A VISUAL & DYE PENETRANT INSPECTION AS PER CSB97-9 - AFT ALTERNATOR STUD ALREADY INSTALLED - OPS CK OK - <i>Justin Gooding AIP 493966228</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.)
7-31-97	0320.4			CHANGED OIL & FILTER - SERVICED WITH AEROSHELL W100 - 12 QTS - RAN ENG - LEAK CK OK - Justin Dooding AIP 49396228
9-23-97		TA	3506.7	CHANGED OIL & FILTER - SERVICED WITH AEROSHELL W100 12 QTS - RAN ENG - PRES. CK OK - NO LEAKS FOUND - COMPR 1. 69/2-62/3-67/4-71/5-65/6-68 T CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH A 100 HR INSP AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION Justin Dooding AIP 49396228

DA
19

Right 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: 1236.9

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. The exhaust wye collector was repaired at this time. Installed an overhauled 642343 cylinder assembly in the # 1 position.

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 272218R
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N
POWERPLANT LOGBOOK INSERT

RT

DATE: 4/27/98
W.O.# 2252
TACH. _____
HOBBS 481.4
SMOH _____
TT _____

or 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: 4/27/98

Signed [Signature]

Performed 50 hr. inspection, cleaned and gapped plugs, checked magneto timing. Inspected exhaust system, and fuel system. Repaired baffle seals on right bank. Serviced with Aeroshell W 100 50 wt. Run up satisfactory, approved for return to service.

END

Model GTSIO520L
S/N 272218R
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.
EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N

RT

POWERPLANT LOGBOOK INSERT

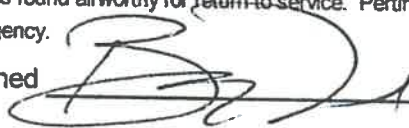
DATE: 5/5/98
W.O.# 2223
TACH. _____
HOBBS 459.1
SMOH _____
TT _____

or 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: 5/5/98

Signed


Performed 50 hr. inspection, cleaned and gapped plugs, checked magneto timing. Inspected exhaust system, and fuel system. Installed new RAM slip joint on inboard side, p/n 1001-3. Changed oil and filter, serviced with Aeroshell W100 50m wt. Run up satisfactory, approved for return to service.

END

DATE

19

Model GTSIO520L

S/N 272218R

N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.

EL MONTE, CA 91731

FAA Approved Repair Station No. B1TR142N

POWERPLANT LOGBOOK INSERT

RT

DATE: 5/23/98

W.O.# 2278

TACH.

HOBBS 509.6

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: 5/15/98

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 272218R

N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.

EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N

RT

POWERPLANT LOGBOOK INSERT

DATE: 12/10/98

W.O.# 2331

TACH.

HOBBS 549.4

SMOH 489.3

TT 1336.2

or 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: 12/10/98

Signed [Signature]

Performed 100 hr. inspection per TCM service manual and FAR 43, apdx. D. Comp. test ; #1 72, #2 72, #3 72, #4 68, #5 74, #6 75.
Inspected cleaned and gapped plugs, checked magneto timing.
Cleaned fuel screen, and fuel injectors. Installed new engine air

DATE

19__

Model GTSIO520L

S/N 272218R

N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.

EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N

RT POWERPLANT LOGBOOK INSERT

DATE: 1/26/99

W.O.# 2404

TACH.

HOBBS 581.6

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: 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

DA

19.

Model GTSIO520L
S/N 272218R
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.

EL MONTE, CA 91731

FAA Approved Repair Station No. B1TR142N

RT POWERPLANT LOGBOOK INSERTDATE: 3/22/99W.O.# 2429TACH. HOBBS 602.6SMOH 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: 3/22/99Signed 

Changed oil and filter, visually inspected exhaust system. Removed propeller governor due to leaks. Governor was resealed by True Speed Gov. shop, see yellow tag. Serviced with Aeroshell W 100 50 WT., Run up satisfactory, approved for return to service.

END

DA

19.

Model GTSIO520LS/N 272218RN# 31C**BEN'S AIRCRAFT MAINTENANCE, INC.**

4001 SANTA ANITA AVE.

EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N

RT

POWERPLANT LOGBOOK INSERTDATE: 4/30/99W.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: 4/30/99Signed 

Changed oil and filter, opened filter for inspection. Repaired baffle seal on right side. Serviced with Aeroshell W 100 50 wt. Run up satisfactory, approved for return to service.

END

Model GTSIO520L
S/N 272218R
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.

EL MONTE, CA. 91731

FAA Approved Repair Station No. B1TR142N

RT POWERPLANT LOGBOOK INSERT

DATE: 9/9/99

W.O.# 2555

TACH.

HOBBS 685

SMOH

TT

or 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: 9/9/99

Signed 

Changed oil and filter, opened filter for inspection. Inspected exhaust system. Installed new noise capacitor on alternator. Run up satisfactory, approved for return to service.

END

Model GTSIO520L
S/N 272218R
N# 31C

BEN'S AIRCRAFT MAINTENANCE, INC.

4001 SANTA ANITA AVE.

EL MONTE, CA 91731

FAA Approved Repair Station No. B1TR142N

RT

POWERPLANT LOGBOOK INSERT

DATE: 1/12/00
W.O.# 2603
TACH.
HOBBS 690.3
SMOH 630.2
TT 1477.1

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: 1/12/00

Signed BZM

Performed 100 hr. inspection per TCM service manual and FAR 43, apdx. D. Comp. test; #1 72, #2 68, #3 70, #4 69, #5 69, #6 68. Inspected exhaust system fuel system, induction system, and electrical system. Removed starter, installed new brushes, and replaced seal. Cleaned and gapped plugs, checked magneto timing. C/W AD 75-23-08R5 inspection of exhaust system. C/W AD 76-02-07, Alternator bearing inspection and lube. Resealed push rod tube on #4 cylinder. Changed oil and filter. Serviced with Aeroshell W 100 50 wt. Run up satisfactory approved for return to service.

END

André Kékoua

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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	126.85	786.5		OIL & FILTER CHANGED - SERVICED WITH NEW SAE 15/50W. Rich Roshkoff AFI 1909051
2-27-01	201	819.6		OIL & FILTER CHANGED, SAMPLE TAKEN - SERVICED WITH NEW SAE 100W. C/W AD 2000-01-16 BY VISUAL INSP. Rich Roshkoff AFI 1909051

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.)
JUNE 18, 2001	845.0			OIL & FILTER CHANGED, SERVICED WITH NEW SUELL 100W R57 / 190607
LOG BOOK ENTRY FOR N31C				
June 19, 2001 HOBBS 863.3				
REMOVED CLEANED GAPPED AND REINSTALLED SPARKPLUGS.				
REMOVED RIGHT MAG INSTALLED NEW ROTOR AND BLOCK.				
REASSEMBLED, AND REINSTALLED. TEST RUN OK				
Rich Hobbins A1190905				

DATE

19__

LOG BOOK ENTRY FOR N31C ~~151T~~ ENGINE
RT

Name

or of Technician or Repair

JULY 3, 2001 HOBBS 867.8

INSTALLED TWO NEW FACTORY REMAN BLUE LABEL MAGNETOS AND
AN NEW SLICK IGNITION HARNESS.
ENGINE TEST RUN OK.Richard Patzkowski
RICHARD PATSKOWSKI A&P 1909051

7-17-2001	879.3	REMOVED SCAVANGE PUMP AND OIL PUMP DUE TO OIL LEAK. CLEANED REINSTALLED WITH TCM GASKET WALKER & SILIC TIGHTENER. TEST RUN INSPECTED FOR LEAKS. Richard Patzkowski A&P 1909051
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DATE

19

Corporate Air Technology
1250 Aviation Avenue, Suite 125
San Jose, California 95110
CRS AU3R384L

Repair

December 7, 2001 N31C

Tach:

Hobbs: 900.1

Cycles:

Total Time: 4048.5

ANNUAL INSPECTION COMPLETED, C/W AD 00-01-16 par(b) VISUAL INSP(next due@4058)
C/W AD00-01-16 par(c)&(e) PRESS TEST&TAILPIPE INSP(next due@12-02/4148hrs),
C/W TCM C8897-9 CRANKCASE INSP(next due@4098hr), C/W TCM C8898-1E VALVE INSP,
CHANGED OIL AND FILTER, SERVICED WITH AEROSHELL 100W, CLEANED AND GAPPED PLUGS
CLEANED FUEL NOZZLES, INSTALLED OVERHAULED #3CYL., INSTALLED ECM TAILPIPE-
#2EXHAUST RISER-INSB SLIP JOINT(FROM KNISLEY), C/W AD 76-02-07 PRESTOLITE ALT
BEARING INSP(next due@4145hr), WASHED RAN AND LEAK CHECKED. COMPRESSION CHECK
#1=69, #2=62, #3=REPLACED, #4=69, #5=62, #6=69


I certify that this RH ENGINE has been inspected in accordance with
a ANNUAL inspection and was determined to be in airworthy condition.
Work Order #: 12944

X

Corporate Air Technology

CRS AU3R384L

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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		Mather Aviation LLC
		N31C Cessna 421C		Mather Airport
		S/N: 421C0096		FAA CRS No. PCPR439B
		Tach: 903.7	AFTT: 4052.9	WO# 406222
		This is a permanent part of the Right Engine records.		
		1. C/W differential compression test 1) 69/80, 2) 65/80, 3) 73/80, 4) 66/80, 5) 60/80, 6) 65/80.		
		2. Opened and inspected the engine oil filter, no defects noted. New oil filter installed and safetied.		
		Technician: L. Olivares, S. Heller		
		This aircraft is approved for return to service only with respect to the work performed.		
		Inspector:		
			John Verderber	
			CRS# PCPR439B	

DATE

19__

Corporate Air Technology

1250 Aviation Avenue, Suite 125

San Jose, California 95110

CRS AU3R384L

Repair

March 1, 2002 N31C

Tach:

Hobb: 905.5

Cycles:

Total Time: 4053.9

REPLACED ALL FLAMABLE FLUID CARRYING HOSES WITH NEW HOSES FROM AIR-PRO INC.
HOSE KIT # C421C(HOSES DATED 2-22-02 NEXT DUE 2-22-07), SECURED ALL HOSES
WITH CLAMPS AND DR TY-WRAFS AS NECESSARY, WASHED ENGINE RAN AND LEAK CHECKED.

The aircraft, airframe, aircraft engine, propellor, 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. Pertinent details of the repair are on file at this repair station under: Work Order #: 19417

X

Corporate Air Technology

CRS AU3R384L

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DATE
19__

RECORDING
TACH
TIME

March 15, 2002

N31C Cessna 421C

S/N: 421C0096

Meter: 909.2

Mather Aviation LLC

Mather Airport

FAA CRS No. PCPR439B

WO# 406379

Technician or Repair

This is a permanent part of the Right Engine records.

1. Drained oil and changed filter. Took oil sample. Opened oil filter, no defects noted. Serviced with Aeroshell 15W50 Oil.
2. Installed new oil cap retaining cable.
3. Retorqued tail pipe stabilizing clamp.
4. Secured alternator wire bundle with stand offs and tie wraps.
7. Installed new intercooler O ring and copper washer.
8. 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.
5. Installed one new oil cooler mount nut and washer

Technician: C. Jones, M. Rotar

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

Inspector:


John Verderber
CRS# PCPR439B

May 1, 2002
N31C Cessna 421C
S/N: ~~414A-0825~~ 421C0096
A.F.T.T: 4059.3 Meter: 910.9 ETSO: 851.6
Mather Aviation LLC
Mather Airport
FAA CRS No. PCPR439B
WO#: 406409

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) 73/80, #2) 65/80, #3) 75/80, #4) 55/80, #5) 58/80, #6) 68/80.
3. No oil change at this time.
4. Installed rebuilt Variable Absolute Pressure Controller, P/N 470836-9003 S/N EKO16295 from Consolidated Fuel Systems FAA CRS PQ1383CE.
5. Repositioned fuel flow transducer to prevent chafing.
6. Installed new Tanis heater pad on the oil pan.
7. Repaired baffles and seals as required.
8. Installed new drain tube on the waste gate.
9. Installed repaired turbo wye heat shield.
10. Installed Rebuilt Waste Gate assembly. P/N 481064-9001 S/N FCO17096 from Consolidated Fuel Systems FAA CRS PQ1383CE.
11. Completed turbo controller set up and fuel pressure set up as per TCM Service Bulletin 97-3A

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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>Technician: D. Christensen, D. DuMond, R. Vaughan, M. Rotar</p> <p>This aircraft is approved for return to service only with respect to the work performed.</p> <p>Inspector: <u><i>John Verderber</i></u> John Verderber CRS# PCPR439B</p> <p>May 1, 2002 ETSO: 851.6</p> <p>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.</p> <p>Inspector: <u><i>John Verderber</i></u> John Verderber CRS # PCPR439B</p>

May 2, 2003
N31C Cessna 421C
S/N: 421C0096
A.F.T.T: 4133.3

Mather Aviation LLC
Mather Airport
FAA CRS No. PCPR439B
: 926.3 WO#: 407331

Technician or Repair

This is a permanent part of the Right 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 SB03-3: #1) 67/80, #2) 61/80, #3) 73/80, #4) 63/80, #5) 62/80, #6) 69/80.
3. Drained oil and changed filter. Serviced with Acrosnell 15W50 oil. Took oil sample and inspected removed filter. No defects noted.
4. Adjusted the left magneto to 24 degrees BTC.
5. Replaced all injector O-rings and rubber washers.
6. Installed new governor control rod end and prop sync micarda block. Operation normal.
7. Stop drilled small cracks in the engine baffling as required.
8. Installed new forward engine shock mounts.
9. Retorqued main fuel line fittings and leak checked. No defects noted.
10. Installed new condenser on the left magneto.

DATE

19

SAS *Spectrum Aircraft Services*

9623 West Terminal Drive • San Antonio, Tx 78216

(210) 824-2818 ext. 5233 • 1-800-327-2818 ext. 5233

BAX (210) 824-3858

AD-93-10-02 C/W AT OVERHAUL 3-11-96

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 ASSY.

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 ASSY. 3-11-96

AD-79-05-09 P/C/W CHECKED 3-11-96

AD-78-09-07-R3 N/A MODEL NO.

AD-77-13-22 N/A MODEL NO. & SERIAL NO. & HEAVY CASE INSTALLED & CASE
OVERHAULED 3-10-96

AD-75-09-13 N/A MODEL & SERIAL NO.

AD-74-26-09 P/C/W BENDIX MAG

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DATE

19 _

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9623 West Terminal Drive • San Antonio, TX 78216

(210) 524-2313 ext. 5253 • 1-800-327-2318 ext. 5253

BAK (210) 524-3858

RIGHT ENGINE: S/N 272218R

SB-94-4 C/W 3-11-96

SB-92-9 C/W REPLACED NUTS & NEW TORQUE

SBM91-9 C/W NEW LUBRICATIONS USED

SBM91-6 C/W NEW REBARREL CYLINDER ASSY.

SBM91-7 N/A STANDARD CYLINDERS

SBM90-17 N/A CASE OVERHAULED 3-11-96

SBM90-16 C/W 3-11-96 7th STUD IMPROVEMENT _INSTALLED KIT #ALTO1800

SBM90-15 N/A SERIAL NO.

SBM90-13 VALVES CHANGED 3-11-96

SBM90-12 COUNTER WEIGHT CHANGE C/W

SBM89-17 C/W NEW REBARREL CYLINDER ASSY. 3-11-96

SBM89-7 C/W AT ENGINE INSTALLATION

SBM89-5 C/W DRIVE COUPLING 646655

SBM88-11 C/W LATER RING GAP INFORMATION

SAS Spectrum Aircraft Services

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(210) 824-2318 ext. 5233 • 1-800-327-2318 ext. 5233

FAX (210) 824-8858

SBM88-8 C/W AT ENGINE BUILD UP ~ 3-11-96
SBM88-7 C/W AT ENGINE RUN UP
SBM87-11 C/W 100% REPLACEMENT PARTS
SBM87-7 C/W AT THIS TIME 3-11-96
SBM87-6 N/A "N" MODEL ONLY
SBM86-18 C/W TORQUE LIMITS NEW SB92-15 TORQUE LIMITS
SBM86-7 N/A NEW REBARREL CYLINDER 3-11-96 & SERIAL NO.
SBM85-18 C/W AT OVERHAUL OF CYLINDERS
SBM85-11 C/W AT OVERHAUL REPLACED COMPLETE STARTER DRIVE ASSY.
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)

SAS *Spectrum Aircraft Services*

9633 West Terminal Drive • San Antonio, TX 78216
(210) 824-2313 ext. 5233 • 1-800-827-2313 ext. 5233
FAX (210) 824-2858

DATE

19

SBM78-6 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 3-11-96
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)