

MILLER AVIATION ENTERPRISES  
TULSA, OKLAHOMA

*Right*

***The Standard***



**ENGINE LOG**

FAA REPAIR STATION 267-69



DATE 19__	RECORDING TACH TIME	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.)
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MAKE Continental

MODEL TSIO 520 E

SERIAL # 185183-R

DATE 10/31/85

TIME SMOH 0.0

TOTAL TIME 2486.0

Miller Aviation Enterprises, Inc. certifies that this engine has been disassembled, overhauled, and tested in accordance with recommended procedures and all clearances and tolerances are within specified limits. Procedures and limits used are as contained in engine manufacturers overhaul manual number X-30042A.

Miller Aviation Enterprises, Inc. certifies the engine identified above was overhauled and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Following A.D.'s complied with 77-13-22-PARA (A), 79-05-09

Pertinent details of the overhaul are on file at the repair station under work order number E-1402

Signed

Joe P Miller  
Authorized Signature

For

**Miller Aviation Enterprises, Inc.**

P.O. Box 580053

Tulsa, OK 74158

FORM MA 102

**CERTIFIED REPAIR STATION #267-69**

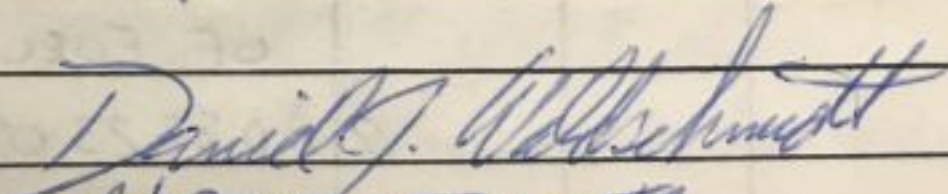


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12-10-85	110225	384.1		Installed This Engine on Rt. side of Cessna 402 n 84224F with new Lord mounts (J9613-58 Assy.) used 12 qts Aero Shell mineral oil test Run and found ok. Installed new Duct Air Filter ph. 9910018-2 Install new Turbo Duct ceets 16-44-6 Installed a new C.H.T. Probe Installed Rebuilt turbo Charger Rebuilt Fuel system Installed new Ignition system A-C FT TT 733S-1 <div style="text-align: right;"> <p>BEEN INSPECTED IN ACCORDANCE WITH A DETERMINED TO BE IN AIRWORTHY CONDITION AND WAS</p> <p><i>John Robert</i> A7P264613183IA</p> </div>
12-10-85	Hobbs	385		Installed a Rebuilt RT Side Fuel system Frank Martin A7P264613183IA
10-5-87	HOBBS	391.8	SMOH 7.7	TOTAL 2493.7 <div style="text-align: center;"> <p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p><i>Philip A Br</i> 316525369 IA</p> </div>



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4-17-89		HOBBES	638.9	AIRFRAME TOTAL 7589.9 ENGINE TOTAL 2740.8 SMOM 254.8
				REMOVED ALL 6 CYLINDERS FOR REPAIR OF VALVE GUIDES & INSTALLED WITH NEW RINGS, SEALS, GASKETS & HOSES. CLEANED PISTONS & HONED CYLINDERS CHANGED OIL & FILTER - CLEANED PLUGS
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
				Philip A Br 3165253A IA TRANS AIR OF HUNTINGTON 1365 WARREN RD. HUNTINGTON, IN 46750 219-3568515
11-13-89				HC Meter Reads 717.5 Hrs Changed Oil & Filter 12 qt 100W 5W Richard McNeil for C.B. 3213
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.



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2-5-90			HOURLY METER 745.8 SMOH 361.7	ANNUAL INSP.
				COMPRESSION 1 <sup>64</sup> /80 2 <sup>65</sup> /80 3 <sup>73</sup> /80 4 <sup>64</sup> /80 5 <sup>74</sup> /80 6 <sup>68</sup> /80
				DRAINED OIL, REPLACED OIL FILTER, & SERVICED WITH 12QTS
				15W50 AEROSHELL. REPLACED 5 SPARK PLUGS. CHECKED
				TIMING. SERVICED AIR FILTER. CHECKED AD'S. C/WAD 77-13-72
				BY INSP OF CRANKCASE FOR CRACKS - NONE NOTED. AD 89-24-01
				IS DUE AT 1195.8 ON HOURLY METER (SCAVENGE OIL PUMP GEAR INSP)
				I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN
				ACCORDANCE WITH AN ANNUAL INSP & WAS DETERMINED TO
				BE IN AIRWORTHY CONDITION.
				 AEP312705722JA



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5-7-91	933.8	SMOH-	549.7	1. COMPRESSION #1 62/80 #2 62/80 #3 64/80 #4 64/80 #5 60/80 #6 60/80
				2. DRAINED OIL AND CHANGED FILTER. SERVICED WITH 11QTS 15W50 AEROSHELL.
				3. REPLACED ALL SPARK PLUGS.
				4. CHECKED COMPLIANCE OF AD# 72-24-03 DATED 11/15/72 FOUND TO HAVE NEW STYLE OIL FILTER ADAPTER.
				5. CHECKED COMPLIANCE OF AD# 80-01-04 DATED 1/25/80 FOUND NOT TO BE APPLICABLE TO CYLINDERS.
				6. AD# 81-24-06 DATED 11/23/81 NOT APPLICABLE TO S/N OF FUEL PUMP.
				7. AD 87-23-08 DATED 11/30/87 DUE AT NEXT CRANKSHAFT REMOVAL.
				8. AD 88-03-06 DATED 4/15/88 NOT APPLICABLE TO OIL FILTER P/N INSTALLED.
				9. AD # 89-24-01 RI. DATED 3/10/90 OF OIL SCAVENGE PUMP GEAR INSPECTION DUE AT 1195.8.
				10. ENGINE GROUND RUNS CHECK NORMAL. OVER



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~~Engine~~  
I certify this ~~aircraft~~ has been inspected  
in accordance with ~~100 hr~~ annual inspection  
and was determined to be airworthy.

~~SMOH~~  
Total Time 549.7 Date 5-7-91

Signature [Signature] JA312746498

DATE	TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS
7-22-92	969.1	SMOH	585.0	<p>1. Compression Check #1 <math>70/80</math> #2 <math>65/80</math> #3 <math>63/80</math> #4 <math>63/80</math> #5 <math>60/80</math> #6 <math>62/80</math></p> <p>2. Drained oil and changed filter. Serviced with 12 qts. of Phillips 20W50 X/C oil.</p> <p>3. Tightened E.G.T. clamp.</p> <p>4. Cleaned and re-gapped all spark plugs.</p> <p>5. No AD's found to be due at this time.</p> <p>6. Engine ground run checks normal.</p>

I CERTIFY THAT THIS Engine HAS  
~~BEEN~~ INSPECTED IN ACCORDANCE WITH  
an Annual INSPECTION AND  
WAS DETERMINED TO BE IN AIRWORTHY  
CONDITION.

SMOH TOTAL TIME 585.0 DATE 7-22-92

SIGNED [Signature] JA312887576



DATE	RECORDING TACH TIME	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.)
4-93	1021.5	SMOK	637.4	<p>1. Compression Check #1 <math>\frac{70}{80}</math> #2 <math>\frac{60}{80}</math> #3 <math>\frac{85}{80}</math> #4 <math>\frac{70}{80}</math> #5 <math>\frac{60}{80}</math> #6 <math>\frac{70}{80}</math></p> <p>2. Drained oil and changed filter. Serviced with 12 qts. of Aeroshell 15 W50 oil.</p> <p>3. Cleaned and gapped all spark plugs.</p> <p>4. Engine ground run checks normal.</p> <p>I CERTIFY THAT THIS <u>Engine</u> <u>HAS</u> BEEN INSPECTED IN ACCORDANCE WITH <u>a Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p><u>SMOK</u> <del>TOTAL TIME</del> <u>637.4</u> DATE <u>5-1-93</u></p> <p>SIGNED <u>Steve E. Lehman IA312887576</u></p>



05 12029

8422R

1-21-94

R STAR

PRESTOLITE

2061495

TCM 637847

Part No.

MHJ4003S

ESI P/N 02060

STARTER

**MAINTENANCE RELEASE**

craft, airframe, aircraft engine, propeller, or appliance identified above was overhauled  
ed in accordance with Current Regulations of the Federal Aviation Administration and  
for return to service.  
ent details of the overhaul are on file at this repair station under

Order No.

12781

Date

06/25/92

Signed:

*Randy Tolliver*

P.O. Box 273

205/227-8306

TWX 810-744-3450

**ROSYSTEMS, INC.**

FORT DEPOSIT, AL 36032 U.S.A.

F.A.A. APPROVED REPAIR STATION NO. UT2R226L

SIGNED



Item: Cylinder Stud Assembly

ECI Class No. 71-1

Work Order No. 67745

Serial No. 25

Part No. 635448CN

Item has been repaired by FAA approved process as follows:

☒ Cerminil™ process (EC 93-10-1) ☐ Channelcromium® process (CPI-35)

☐ Cermicrome® process (AE87-1)

☒ IFR (EC9001-2)

☐ Cermisteel™ process (EC 88-11-1)

☒ Weld (ECI-EF1)

☐ New Barrel Per: ☐ EC 85-6 (Lyc) ☐ EC 88-05 (Contl) ☐ New Classic Cast Cylinder

Head per ☐ Flange Corner Stud Mod. Per Dwg. AEC631397

AEL65101

Complied with: ☒ TCM SB-M92-6 ☒ TCM SB-85-9

☒ TCM SB M91-7 ☐ AD 94-05-05

☒ Replacement parts per FAA approved applications listing:

Inspector: J.A. DeGuz

09-14-98

For product definition Refer to ECI's FAA approved Class Reference Manual.

EC 123 (11-96)



Item: Cylinder Stud Assembly ECI Class No. 71-1

Work Order No. 67745 Serial No. 25

Part No. 635448CN

Item has been repaired by FAA approved process as follows:

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☐ New Barrel Per: ☐ EC 85-6 (Lyc) ☐ EC 88-05 (Contl) ☐ New Classic Cast Cylinder

Head per ☐ Flange Corner Stud Mod. Per Dwg. AEC631397 AEL65101

Complied with: ☒ TCM SB-M92-6 ☒ TCM SB-85-9

☒ TCM SB M91-7 ☐ AD 94-05-05

☐ Replacement parts per FAA approved

Inspector: DA

R #1 22F

MFR. NAME: CONTINENTAL

UNIT: CYLINDER

MODEL: CERMINIL

SERIAL NO.: 87849

PART NO.: CLASS 71-1D

The aircraft/component identified below was overhauled and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the overhaul are on file at this repair station under the work order shown below.

43895

WORK ORDER NO.: 10/14/98

DATE: George E. Bandy

SIGNED: George E. Bandy

3701 Highway 162  
Granite City, IL 62040

Phone: 618-797-6630  
FAX 618-931-0190  
800-362-3044



FAA CERTIFIED REPAIR  
STATION NO: SA2R154L

IRS AND ALTERATIONS  
AND CERTIFICATE NUMBER OF  
OR OTHER SPECIFIC ENTRIES.)

#4 7/80 #5 6/80 #7 7/80

Serviced with 12

4 plays.



RIGHT

N8422E

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Date: 04-22-99 R/Eng: TSIO-520-E S/N 185183-R Hobbs: 1206.9 SMOH: 822.8 TTIS: 3308.8  
Completed an Annual Inspection this date in accordance with an inspection guide taken from  
Cessna 402 Service Manual. Changed oil & serviced w/Aeroshell 100W, inspected and replaced  
CH48108 filter; differential compression check was as follows: #1 0/80, #2 52/80, #3 60/80, #4  
60/80, #5 65/80, #6 70/80; cleaned, gapped, and rotated all spark plugs; replaced #1 cylinder assy  
w/Cerminal unit from Aero Aviation; replaced all push-rod seals & valve cover gaskets; checked  
& lubricated all controls; checked & cleaned injectors, replaced seals; checked magneto to engine  
timing; replaced intercooler-throttle body hose; repair tach gen wiring; replaced all flexible fluid  
hoses; replaced cowl flap cable p/n 1820-7; replaced mixture cable p/n 1220-31; engine test run  
satisfactory. I certify that this engine has been inspected in accordance with an Annual Inspection  
and was determined to be in an airworthy condition. -- Scott C. [Signature] 309541311 IA



124

1235 Hm B51 smon 3337 TT

DATE 19__	RECORDING TACH TIME	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.)
				<p>857 SmoH 3337 TT</p> <p>DATE <u>9-25-00</u> TACH <u>1235/00</u> TT <u>3337</u></p> <p>CERTIFY THIS <u>POWERPLANT</u> HAS BEEN INSPECTED</p> <p>IN ACCORDANCE WITH <u>A 100 HR</u> INSPECTION</p> <p>AND WAS FOUND TO BE IN AN AIRWORTHY CONDITION</p> <p>OIL TYPE <u>100W</u> ALTIMETER CERTIFICATION</p> <p>TRANSPONDER <u>ELT</u></p> <p>Signed: <u>[Signature]</u> 1720599 AEP</p> <p>C/W AD 89-24-01 R1 BY INSTALLING NEW OIL</p> <p>PUMP GEARS P/N'S 649157 &amp; 649159. C/W AD 93-16-15</p> <p>BY INSTALLING NEW FUEL PUMP COUPLING P/N 653359.</p> <p>ROUTINE SERVICE PERFORMED, OK FOR RTS. -END-</p>