



Transport  
Canada  
Aviation

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4/11  
TP3910E

# AIRCRAFT TECHNICAL LOGS

## Section 3. ENGINE

Second Edition

January 1987

Canada

ENGINE LOG

T.O.M.

1. Make ~~Horzelt~~ Sensenich
2. Model ~~HC B37W 20 / 770125 B B~~ TS10520NB
3. Specification \_\_\_\_\_
4. Manufacturer's Serial Number ~~806603~~ 521470
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle ~~After Continued Insp 50hr Cyl.~~  
TBO - 1600

# 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	→		000	0	
July 10 95					RAM Reman Rebuilt Engine TBM T310-520 installed on A/C E-DYS on Eng RPMG on A/C under RAM A/C Rebuilt Prop Gas Pin A21529 D/GW Rebuilt y P/c As per Noordwyn Absence installed Engine Serviced with Phillips Engine Camshaft Placed Fuel, + oil As per MFG Recommendations Ground R
10 July 95			00	00	ENG REPAIRED.
24 NOV 95	48	20	48	20	100 HRS INSPECTION AS PER TAPQ 21541 ENG CONTROLS REPAIRED, TESTED, ROTATED, MAES TO 5-75 6-75 ENG CLEANED AS REQUIRED, FUE
29 MAR 96	65	10	143	30	100 HRS INSPECTION AS PER TAPQ 21541 ENG CONTROLS REPAIRED, TESTED, ROTATED, ENG CLEANED NORMALLY.
26 JUL 96	50	10	193	40	200 HRS INSPECTION AS PER TAPQ 21541 ENG CONTROLS CLEANED, REPAIRED, TESTED, ROTATED, MAES 4-75 5-74 6-75 ENG CLEANED AS REQUIRED
22 NOV 96	42	40	236	20	50 HRS INSPECTION AS PER TAPQ 21541 ENG CONTROLS REPAIRED, TESTED, ROTATED, ENG CLEANED NORMALLY.
19 FEB 97	51	30	287	50	100 HRS INSPECTION AS PER TAPQ 21541 ENG CONTROLS CLEANED, REPAIRED, TESTED, ROTATED, MAES 3-79 4-78 5-77 6-79 ENG CLEANED AS RE LY
TOTAL THIS PAGE					CARRIED FORWARD
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					



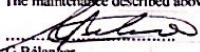
# MAINTENANCE RECORD

1

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
<p>SIN L-521470 Drain on H 1752/10099 SIN 747355 installed Inc W/D 606361 20/50 Type m + pressure adjusted + leak checked</p>	<p>I have conducted an inspection for conformance to the Type of the Flight/Powerplant Controls that were affected by the work accomplished. 1st Sgt. <u>Dale H. H. 1710817</u></p>	
<p>THE MAINTENANCE DESCRIBED ABOVE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS OF A MAINTENANCE DIAMOND MATCH LIMITED AND 8-98</p>	<p><u>[Signature]</u> M31259</p>	
	<p><u>C. H. G. 1161126</u></p>	
<p>CHECKED &amp; LUBED, OIL &amp; FILTER CHANGED, PLUGS &amp; HOLES CLEARED ENGINE TIMING CHECKED, COMPRESSION 1-72 2-75 3-74 4-74 GROUND RUN FOUND TO BE OPERATING NORMALLY.</p>	<p><u>[Signature]</u> M 333465</p>	
<p>CHECKED &amp; LUBED, OIL CHANGED, PLUGS &amp; HOLES CLEARED, AS REQUIRED, ENGINE GROUND RUN FOUND TO BE OPERATING.</p>	<p><u>[Signature]</u> M 333465</p>	
<p>CHECKED &amp; LUBED, OIL &amp; FILTER CHANGED, PLUGS &amp; HOLES TO ENGINE TIMING CHECKED, COMPRESSION 1-71 2-74 3-75 ENGINE GROUND RUN FOUND TO BE OPERATING NORMALLY.</p>	<p><u>[Signature]</u> M 333465</p>	
<p>CHECKED &amp; LUBED, OIL CHANGED, PLUGS &amp; HOLES CLEARED AS REQUIRED, ENGINE GROUND RUN FOUND TO BE OPERATING.</p>	<p><u>[Signature]</u> M 333465</p>	
<p>CHECKED &amp; LUBED, OIL &amp; FILTER CHANGED, PLUGS &amp; HOLES TO ENGINE TIMING CHECKED, COMPRESSION 1-72 2-74 REQUIRED ENGINE GROUND RUN FOUND TO BE OPERATING NORMALLY.</p>	<p><u>[Signature]</u> M 333465</p>	

MAXIMUM HOURS BETWEEN OVERHAULS 1600 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 → 287 50					
28 MAR 97	49	55	337	45	50 HRS INSPECTION AS PER JAP Q2154R ENG CALL CLEANED, REPAIRED, TESTED, ROTATED, ENG TIME OPERATING NORMALLY.
7 MAY 97	37	40	375	25	20 HRS INSPECTION AS PER Q2154R ALIF IN CHN 109 REPLACED. SPARK PLUGS TO ENGINE. TIDING CHECKED. COND CLEANING AS REQD. ENGINE 900 RPM 100hr inspection and annual performed in accordance with
18 Dec 1998	79		454		
6 July 2000					Work Report
					C-FDYS
					Both engines ..all cylinders removed, clean inspected, and rings replaced for new chrome rings, equivalent to a 100 hrs (annual) inspection carried out
					The maintenance described above has been performed in accordance with the applicable standards of airworthiness
					 G. Bélanger MI57104
6 May 2001			626	06	100hr inspection carried out new RHB 32E installed The maintenance described above with the applicable standards
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					
CARRIED FORWARD					

# MAINTENANCE RECORD

2

REPAIRS, ADJUSTMENTS, MODIFICATIONS ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE	LICENCE NUMBER
Tires checked & inflated, oil changed, plugs & valves cleaned as required, engine ground run & fluid	C. H. G.	M15712
Engine controls inspected & adjusted. Oil & filter changed, tested, replaced & tested. Double test #1-12 #2-11 #3-10 #4-9 #5-8 #6-7. Engine to be operating normally. The maintenance described above has been the applicable standards of Armistice	[Signature] [Signature]	M15715 M157104
new oil filter installed & air exhaust removed for inspection has been performed in accordance of Armistice	[Signature]	M157104

MAXIMUM HOURS BETWEEN OVERHAULS 1600 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					

Cessna 414 C\_FDYS

## Work report

- 1) 100 hrs inspection carried out as per Cessna Corporation inc
- 2) new GILL battery installed
- 3) both firewall clean and re-sealed
- 4) R/H engine l/h corner exhaust pipe replaced by overhauled one (tag attach)
- 5) L/H engine westgate valve remove to carried out better cleaning of rear engine compartment
- 6) All lights checked for proper operation
- 7) L/H gear door hinges replaced

THE MAINTENANCE DESCRIBED ABOVE HAS  
BEEN PERFORMED IN ACCORDANCE WITH  
THE APPLICABLE STANDARDS OF  
AIRWORTHINESS

G. BÉLANGER LIC # 157104

15 Dec 2007

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TOTAL  
SINCE MFG.

# MAINTENANCE RECORD

3

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

SIGNATURE

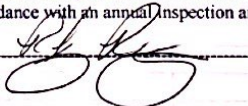
LICENCE  
NUMBER

RONIG AIR SERVICE      AFTT: 3521.0      LEFT ENG.:  
115A Airport RD.      HOBBS: 47.3      TSN:  
Newnan, GA 30263      DATE: 11-30-02      TSMOH: 646.6

1. Performed Annual Inspection IAW Cessna 414 Inspection Guide.
2. Replaced damaged and broken exhaust studs in lt. engine.
3. Up-graded aircraft from RAM I to RAM IV modification IAW STC. SE43275W, RAM drawing #1011 and RAM drawing #1622 and increase max takeoff weight to 6510 lbs., max ramp weight 6550 lbs, and increase max continuous power to 325 HP. Installation IAW RAM Limited Partnership STC SA3479SW. Aircraft equipped with McCauly C93 Props. The following instruments re-marked for STC: Tack Indicator PN/C668017-ORAM, SN/4745-overhauled, Manifold Pressure Gauge PN/66206-0101 OH, SN/25479-range marked, bench tested, Pilots Airspeed Indicator PN/C661040-0105, SN/413-range marked, bench tested, Co-Pilots Airspeed Indicator PN/2052-4NP, SN/T12641-range marked, bench tested, Installed Alcor Part #204-19B EGT Gauge Installed new EGT Harness PN/42527, and EGT Probes PN/86255 IAW Alcor STC SA 96 SW, Installed RAM Manifold Pressure Relief Valves PN/1020-2-OH, Left Engine SN/HD0110, Right Engine SN/LA0236. Aircraft equipped with Hoskins Digital Fuel Flow system IAW RAM STC. Installed RAM Slip Joints PN/1001-3.
4. Comp Check #1- 72/80, #2- 70/80, #3- 71/80, #4- 71/80, #5- 76/80, #6- 70/80.

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

RICKY RONIG AP2592944641A



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	→				

RONIG AIR SERVICE  
115A Airport RD.  
Newnan, GA 30263

AFTT: 3521.0  
HOBBS: 53.9  
DATE: 12-4-02

Left eng.  
TSN:  
TSMOH: 646.6

1. Changed oil and filter, filter PN/ CH48019, serviced with 12Qts of aero shell 100 plus. Ground ran no leaks noted.
2. Installed new fuel flow transducer PN/ 201BM, SN/ 122872.
3. Replaced oil inlet & outlet gasket PN/ 632710 on turbo charger.

I certify this aircraft, engine or component has been inspected or repaired in accordance with current Federal Aviation Regulation and has been determined to be in airworthy condition.

RICKY RONIG AP259294464IA

**EPSPS**  
*Aviation*  
770-458-9851

Aircraft Reg:	414G	03-14-03
Manufacturer:	RAM	Work Order:
Model:	TSIO-520-NB	C3232
Serial Number:	521470	Pg 1 of 1
Hour Meter:	84.9	TSMOH:
Tach Time:		Eng. TT

REMOVED PUSH TUBE SEAL ON #6 CYL AND INSTALLED NEW. SERVICED WITH 8 QUARTS OF AEROSHELL 100W 50 SAE PLUS OIL. REMOVED OIL FILTER AND CUT OPEN. NO CONTAMINATION FOUND. INSTALLED NEW OIL FILTER. INSTALLED NEW EXHAUST GASKETS ON #2, #4, & #6 CYL'S. SOLVENT WASHED ENGINE AND GROUND RAN. OPERATIONAL/LEAK CHECKS ARE SATISFACTORY.

The aircraft, airframe, 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. Pertinent details of the repair are on file at this repair station under Work Order No. C 3232.

Signed: *Robert F. Fullard* ROBERT F FULLARD  
for: Eppe Air Service, Inc. Post Office Box 141011, Atlanta, GA 30341

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PREVIOUS SUMMARY

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

RONIG AIR SERVICE

AFTT: 3552.7

LT

115A Airport RD.

HOBBS: 85.6

TSN:

Newnan, GA 30263

DATE: 04/01/03

TSMOH: 678.3

1. Changed oil and filter serviced with 12QTS Aershell 100 plus filter PN/ CH48109.

2. Complied With AD 2000-01-16 50hr visual inspection. No desc. noted

I certify this aircraft, engine or component has been inspected or repaired in accordance with current Federal Aviation Regulation and has been determined to be in airworthy condition.

RICKY RONIG AP2592944641A

S & S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT

1800 AIRPORT DRIVE

BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 01-01-04

TACH: 123.2

TOTAL: ??

SMOH: 769.8

REMOVED ALL CYLINDERS. REPLACED TWO CYLINDERS WITH SERVICEABLE CHROME UNITS. REPLACED ALL EXHAUST VALVES, P/N AEC637781; RINGS, P/N CC110 RING SETS; AND PISTON PINS, P/N 630046. HONED CYLINDERS. GROUND INTAKE VALVES. LAPPED ALL VALVES. REPLACED FOUR EXHAUST GUIDES, P/N SA636242. REPLACED P/N 653877 EXHAUST LIFTERS IN #4 AND #6 CYLINDERS. REPLACED INTAKE LIFTER P/N 628488 IN #3 CYLINDER. REPLACED FOUR ROCKER PINS, P/N 652984. REINSTALLED ALL CYLINDERS. FLUSHED AND BLEED OIL. PRESSURE LINES. SERVICED WITH AEROSHELL W-100 OIL. AND CH48109 FILTER. REMOVED MAGNETOS. REPLACED BREAKERS, P/N M3081; BLOCKS, P/N K3828; AND DRIVE GEARS, M3828. REINSTALLED MAGNETOS. ADJUSTED IGNITION TIMING. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE FILTERS P/N 1396-2. PRIMED OIL PUMP. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED:

CERT#: 256295713 A&P IA

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

S & S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT

1800 AIRPORT DRIVE

BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 11-09-04

TACH: 180.0

TOTAL:

SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48109 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED:

CERT#: 256295713 A&P IA

S & S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT

1800 AIRPORT DRIVE

BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 02-01-05

TACH: 195.7

TOTAL: ??

SMOH: 842.3

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH AEROSHELL W-100 OIL AND CH48109 FILTER. COMPRESSIONS: #1-79, #2-75, #3 79, #4-76, #5-78, #6-79. SPARK PLUGS CLEANED, GAPPED, PAINTED, AND ROTATED. ADJUSTED IGNITION TIMING. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE FILTERS P/N 1396-2. INSTALLED NEW P12-8156 INDUCTION AIR FILTERS. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED:

CERT#: 256295713 A&P IA

S & S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT

1800 AIRPORT DRIVE

BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 09-14-05

TACH: 256.8

TOTAL:

SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48109 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED:

CERT#: 256295713 A&P IA

S & S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT

1800 AIRPORT DRIVE

BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 03-01-06

TACH: 294.2

TOTAL:

SMOH: 940.8

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH AEROSHELL W-100 OIL AND CH48108 FILTER. COMPRESSIONS: #1-74, #2-72, #3 78, #4-70, #5-76, #6-75. SPARK PLUGS CLEANED, GAPPED, PAINTED, AND ROTATED. ADJUSTED IGNITION TIMING. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE FILTERS P/N 1396-2. INSTALLED NEW P12-8156 INDUCTION AIR FILTERS. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED:

CERT#: 260254230 A&P IA

CARRIED FORWARD

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TOTAL  
SINCE MFG.



# MAINTENANCE RECORD

5

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024  
**BALL GROUND, GA.** ENG S/N: 521470

DATE: 06-23-06  
 TACH: 0328.2  
 TOTAL:  
 SMOH:

LICENCE  
NUMBER

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48109 OIL FILTER. SERVICED ENGINE WITH PHILLIPS20W50 OIL. REPLACED #6 CYLINDER WITH OVERHAULED CYLINDER ASSY P/N EC636122-CN S/N 19682-8 REPLACED AIR/OIL SERARATOR WITH NEW UNIT P/N C165001-0202. INSTALLED NEW OIL FILLER CAP GASKET P/N 633240. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *Eli H. Hines*

CERT#: 260254230 A&P IA

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024  
**BALL GROUND, GA.** ENG S/N: 521470

DATE: 07-19-06  
 TACH: 341.4  
 TOTAL:  
 SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *Eli H. Hines*

CERT#: 260254230 A&P IA

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024  
**BALL GROUND, GA.** ENG S/N: 521470

DATE: 12-14-06  
 TACH: 0371.5  
 TOTAL:  
 SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. REPLACED OUTBOARD INDUCTION ELBOW WITH SERVICEABLE UNIT. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *Eli H. Hines*

CERT#: 260254230 A&P IA

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024  
**BALL GROUND, GA.** ENG S/N: 521470

DATE: 04-01-07  
 TACH: 0380.2  
 TOTAL:  
 SMOH: 1026.8

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH AEROSHELL W-100 OIL AND CH48108 FILTER. COMPRESSIONS #1-78, #2-65, #3 78, #4-70, #5-78, #6-78. SPARK PLUGS CLEANED, GAPPED, PAINTED, AND ROILED. ADJUSTED IGNITION TIMING. FULL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE FILTERS P/N 1396-2. INSTALLED NEW P12-8156 INDUCTION AIR FILTERS. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FULL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED: *Eli H. Hines*

CERT#: 3191860 A&P IA

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

S &amp; S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT  
1800 AIRPORT DRIVE  
BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 07-20-07

TACH: 0407.3

TOTAL:

SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108 OIL FILTER. SERVICED ENGINE WITH PHILLIPS 20W50 OIL. REPLACED #3 CYLINDER WITH OVERHAULED CYLINDER ASSY P/N ECC71.2 CN S/N 22640-8. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *E. Schmidt*

CERT#: 3191860 A&amp;P IA

S &amp; S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT  
1800 AIRPORT DRIVE  
BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 12-13-07

TACH: 0038.5

TOTAL:

SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *E. Schmidt*

CERT#: 3191860 A&amp;P IA

S &amp; S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT  
1800 AIRPORT DRIVE  
BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 04-11-08

TACH: 0073.7

TOTAL:

SMOH: 1127.6

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH AEROSHELL W-100 OIL. AND CH48108 FILTER. COMPRESSIONS: #1-78, #2-62, #3-78, #4-61, #5-73, #6-78. REPLACED ALL SPARK PLUGS WITH NEW RH32E. REPLACED CRANKSHAFT SEAL P/N 641250. CHECKED AND ADJUSTED IGNITION TIMING. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE. FILTERS P/N 1396-2. AD2007-04-19R1 DNA AFFECTED CYLINDERS NOT INSTALLED. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED: *E. Schmidt*

CERT#: 3191860 A&amp;P IA

S &amp; S AVIATION CO (L)

CHEROKEE COUNTY AIRPORT  
1800 AIRPORT DRIVE  
BALL GROUND, GA.

MODEL: TCM TSIO-520-NB

A/C REG: N414G

A/C S/N: 414-0024

ENG S/N: 521470

DATE: 11-25-08

TACH: 0116.6

TOTAL:

SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. LUBRICATED EXHAUST SLIP JOINTS AND WASTEGATES WITH MOUSE MILK. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *E. Schmidt*

CERT#: 3191860 A&amp;P IA

DATE: 11/11/2008

MAKE / MODEL: Cessna 414

JIM: 112.4

AIRCRAFT REG: N414G

AIRCRAFT S/N: 414-0024

AIRCRAFT IT: 222

Replaced right magneto on left engine with a new magneto PN 6320, SN 08101419. Ground ran and checked operation.

Signature: *Ronald A. Schmidt*

Ronald A. Schmidt, AP14749761A

Schmidt Aviation, Inc. 1020 NW 62nd Street, Hangar #6, Ft. Lauderdale, FL 33309  
(954) 772-0772 Fax (954) 938-5173 SCHMIDTAV@aol.com

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PREVIOUS SUMMARYTOTAL  
SINCE MFG.



# MAINTENANCE RECORD

6

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB DATE: 05-01-09  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G TACH: 0153.1  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024 TOTAL:  
**BALL GROUND, GA.** ENG S/N: 521470 SMOH: 1207.0

LICENCE  
NUMBER

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH AEROSHELL W-100 OIL AND CH48108 FILTER. COMPRESSIONS: #1-79, #2-64, #3 79, #4-68, #5-77, #6-75. CLEANED, GAPPED, AND ROTATED SPARK PLUGS. REPAIRED #6 TOP PLUG LEAD. CHECKED AND ADJUSTED IGNITION TIMING. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE. FILTERS P/N 1396-2. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED:

CERT#: 3191860 A&P IA

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB DATE: 10-20-09  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G TACH: 0194.2  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024 TOTAL:  
**BALL GROUND, GA.** ENG S/N: 521470 SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. LUBRICATED EXHAUST SLIP JOINTS AND WASTEGATES WITH MOUSE MILK. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED:

CERT#: 3191860 A&P IA

**S & S AVIATION CO (L)** MODEL: TSIO-520-NB DATE: 01-15-2010  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G TACH: 0215.1  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024 TOTAL:  
**BALL GROUND, GA.** ENG S/N: 521470 SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108-1. OIL FILTER. SERVICED ENGINE WITH PHILLIPS20W50 OIL. REPLACED #3 & #4 CYLINDER WITH OVERHAULED CYLINDER ASSY'S P/N EC71.2-CN S/N'S 33526-9 & 33526-8. REPLACED #4 CONNECTING ROD WITH OVERHAULED UNIT P/N 642399. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED:

CERT#: 3191860 A&P IA

**S & S AVIATION CO (L)** MODEL: TCM TSIO-520-NB DATE: 06-01-2010  
**CHEROKEE COUNTY AIRPORT** A/C REG: N414G TACH: 0277.0  
**1800 AIRPORT DRIVE** A/C S/N: 414-0024 TOTAL:  
**BALL GROUND, GA.** ENG S/N: 521470 SMOH: 1330.9

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH AEROSHELL W-100 OIL AND CH48108-1 FILTER. COMPRESSIONS: #1-74, #2-75, #3 75, #4-77, #5-76, #6-77. CLEANED, GAPPED, AND ROTATED SPARK PLUGS. REMOVED, DISASSEMBLED AND INSPECTED LEFT AND RIGHT MAGNETOS. REPLACED DISTRIBUTOR BLOCK ASSY P/N K3823. CONTACT ASSY P/N M3081. DISTRIBUTOR DRIVE GEAR P/N K3828 IN LEFT MAGNETO. SET INTERNAL TIMING AND REINSTALLED. AD2009-16-03 DNA AFFECTED CYLINDERS NOT INSTALLED. AD2009-19-07 C2 DNA AFFECTED CYLINDERS NOT INSTALLED. AD2010-11-04 DNA AFFECTED FILTERS NOT INSTALLED. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE. FILTERS P/N 1396-2. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED:

CERT#: 3191860 A&P IA



**S & SAVIATION CO (L)**  
**CHEROKEE COUNTY AIRPORT**  
**1800 AIRPORT DRIVE**  
**BALL GROUND, GA.**

MODEL: TCM TSIO-520-NB  
A/C REG: N414G  
A/C S/N: 414-0024  
ENG S/N: 521470

DATE: 08-10-2010  
TACH: 0307.5  
TOTAL:  
SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108-1 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. REPLACED OIL PUMP AND STARTER ADAPTER GASKETS. REPLACED TACH DRIVE PIN P/N 535634 AND TACH DRIVE OIL SEAL P/N 531378. REPLACED ENGINE DRIVEN FUEL PUMP WITH OVERHAULED UNIT P/N 646210-11A1 S/N A318033B. LUBRICATED EXHAUST SLIP JOINTS AND WASTEGATES WITH MOUSE MILK. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *E. H. Hines*

CERT#: 3191860 A&P IA

**S & SAVIATION CO (L)**  
**CHEROKEE COUNTY AIRPORT**  
**1800 AIRPORT DRIVE**  
**BALL GROUND, GA.**

MODEL: TCM TSIO-520-NB  
A/C REG: N414G  
A/C S/N: 414-0024  
ENG S/N: 521470

DATE: 07-01-2011  
TACH: 0370.2  
TOTAL:  
SMOH: 1424.1

OIL DRAINED. FILTER REMOVED AND CHECKED. SERVICED WITH PHILLIPS 20W50 MINERAL OIL AND CH48108-1 FILTER. COMPRESSIONS: #1-XX, #2-74, #3 74, #4-70, #5-70, #6-77. CLEANED, GAPPED, AND ROTATED SPARK PLUGS. REMOVED AND REPLACED #1 CYLINDER WITH SERVICEABLE UNIT. REPLACED EXHAUST VALVE AEC637781. INSTALLED CYLINDER WITH NEW RINGS, GASKETS, AND HARDWARE. FUEL SCREENS CHECKED AND CLEANED. REPLACED MAG PRESSURE FILTERS P/N 1396-2. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. ADJUSTED FUEL PRESSURES, IDLE MIXTURES AND IDLE SPEED. RETURNED TO SERVICE.

SIGNED: *E. H. Hines*

CERT#: 3191860 A&P IA

**S & SAVIATION CO (L)**  
**CHEROKEE COUNTY AIRPORT**  
**1800 AIRPORT DRIVE**  
**BALL GROUND, GA.**

MODEL: TCM TSIO-520-NB  
A/C REG: N414G  
A/C S/N: 414-0024  
ENG S/N: 521470

DATE: 11-30-2011  
TACH: 0386.1  
TOTAL:  
SMOH:

OIL DRAINED. FILTER REMOVED AND CHECKED. INSTALLED NEW CH48108-1 OIL FILTER. SERVICED ENGINE WITH AEROSHELL W100 OIL. REPLACED TURBO WITH OVERHAULED UNIT P/N 407810-9001 S/N JL00056. LUBRICATED EXHAUST SLIP JOINTS AND WASTEGATES WITH MOUSE MILK. ENGINE WASHED, TEST RAN, AND CHECKED FOR LEAKS. RETURNED TO SERVICE.

SIGNED: *E. H. Hines*

CERT#: 3191860 A&P IA

Corporate Air Center **N414G C-414 S/N: 4140024 HOBBS: 436.6**



15452 - Airport Drive  
Burlington, WA 98233  
Phone (360) 757-7757  
Fax (360) 757-1557

C/W 50Hr oil change. Drained oil and removed filter. Cut filter open, No metal found. Replaced filter with new P/N CH48108-1. Serviced engine with 12 Qts of Aeroshell 15W/50 C/W AD2000-01-16 part B. Installed new spark plugs RHB32E 12 each. Ran engine and no leaks noted.

*Paul Shinn*  
Paul Shinn  
AP3517455IA

06/20/2012

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM  
PREVIOUS SUMMARY

TOTAL  
SINCE MFG.

**Corporate Air Center** *N414G C-414 S/N: 0024 HOBBS: 463.3*



15452 - Airport Drive  
Burlington, WA 98233  
Phone (360) 757-7757  
Fax (360) 757-1557

Airframe TT: 4344.3  
R/H Eng SMOH: 1695.9  
L/H Eng SMOH: 1517.2  
R/H Prop SMOH: 1528.1  
L/H Prop SMOH: 1528.1  
Heater Hobbs: 1338.1

This engine was inspected in accordance with FAR 43 Appendix D for an 100Hr/Annual inspection. Compressions are as follows 1)72/80, 2)78/80, 3)74/80, 4)68/80, 5)72/80 and 6)72/80. AD 2012-03-06 Fuel Servo Does Not Apply. AD 2012-10-13 Starter adapter is N/A by P/N C/W AD 2000-01-16 on both exhaust systems, para B visual insp of exhaust every 50hr/30 days next due 4394.3, para C remove tail pipe and insp every 12mos next due 8/2013, C/W para D visual insp firewall eng beams and canted bulkhead next due at 4844.3, C/W para E pressure check exhaust every 12mos next due at 8/2013, para F is due at 4534.2, Para G is due at 6021.0 or 8/2014 which ever occurs first. AD 84-26-02 paper induction air filter is due at 4751.2 I certify that this engine has been inspected in accordance with a 100Hr/Annual inspection and found to be in an airworthy condition.

Daniel P Monahan  
AP32484081A

08/17/2012

6/2/2013 515.7 HOBBS

DRAINED OIL AND RECHANGED FILTER SERVICED W/  
10 QTS AEROSHELL 15W50 ANT TEMPEST FILTER  
CIT-48108-1. MAINT CHECK GOOD

*Ken G. Kline*  
OWNER - PILOT  
CERTIFICATE 2838306

**Corporate Air Center** *N414G C-414 S/N: 0024 HOBBS: 522.6*



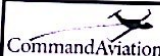
15452 - Airport Drive  
Burlington, WA 98233  
Phone (360) 757-7757  
Fax (360) 757-1557

Airframe TT: 4403.6  
R/H Eng SMOH: 1755.2  
L/H Eng SMOH: 1576.5  
R/H Prop SMOH: 1587.4  
L/H Prop SMOH: 1587.4  
Heater Hobbs: 1338.1

C/W AD2000-01-16 part B. Performed visual inspection of entire exhaust system. No cracks, sags, distortion or holes found. Lubed waste gate and slip joints with mousse milk. Next due in 4453.6 TT.

Daniel P Monahan  
AP32484081A

06/19/2013



PHONE 360 733 3174  
2010 W 8th Avenue Rd  
Bellingham WA 98226

**LEFT ENGINE LOGBOOK INSERT**

DATE: 08/01/2013

ENGINE MAKE: TCM MODEL: TSIO 520-NR S/N: 521470  
ENG TTS: 2635.4 SMOH: 1517.9 TOTAL CYCLES: N/A Installed on Aircraft: N414G ACTT: 4445.0

Completed 100 hour Engine inspection. I certify that this engine has been inspected (AW) an annual inspection and was determined to be in airworthy condition. Maintenance performed at this time.

Performed initial engine run, checked engine oil level, inspected oil filter and Compression test: 1)75/80 2)72/80 3)71/80 4)72/80 5)73/80 6)74/80. Cut open and inspected oil filter for contamination, none found. Removed cylinder #5 and sent out for repair. Installed repaired cylinder #5 with new gaskets and seals as required. Replaced all pushrod tube seals and rocker cover gaskets on cylinders 2,4 and 5. Serviced engine with Aeroshell 15w50 oil and a new Champion oil filter. Performed all servicing and lubrication required for this type of inspection. Washed engine externally. Inspected engine for general condition, performed a post engine performance run.

Maintenance Release: The Engine and/or component identified above was inspected and/or repaired, per current Regulations of the Federal Aviation Administration, and is subsequently approved for return to service.

Craig Scammon AP3406816/A

# 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.	

BROUGHT  
FORWARD

**CommandAviation** PHONE 360 733 3174  
2010 W Bakerview Rd  
Bellingham WA 98226

**LEFT ENGINE LOGBOOK INSERT**

DATE: 02/15/2015  
ENGINE MAKE: TCM MODEL: TSIO-520-NB SN: 521470  
ENG TTIS: 3732.8 SMOH: 1655.3 TOTAL CYCLES: N/A Installed on Aircraft: N414G ACFT: 4482.4

Completed 100 hour Engine Inspection. I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Maintenance performed at this time:  
- Performed initial engine run, checked engine oil level, inspected oil filter and Compression test: 1)72/80 2)75/80 3)75/80 4)72/80 5)72/80 6)72/80 Cut open and inspected oil filter for contamination, none found. Serviced engine with Aeroshell 15w50 oil and a new Champion oil filter. Performed all servicing and lubrication required for this type of inspection. Washed engine externally, inspected engine for general condition, performed a post engine performance run.

Maintenance Release: The Engine and/or component identified above was inspected and/or repaired, per current Regulations of the Federal Aviation Administration, and is subsequently approved for return to service.

Craig Scarnemoh AP34058161A

**CommandAviation** 2010 W Bakerview Road  
Bellingham, WA 98226

**LH ENGINE**  
A/C: N414G SN: 414 0024 Hobbs: 683.2 AFTT: 4564.2 Date: 04/14/2015  
ENGINE: TSIO-520-NB SN: 521470 TSMOH: 1737.1

C/W 100 hr. inspection IAW FAR part 43(d). C/W AD Amendment Effective by visual inspection of lines for condition and security. Performed compression test, compressions as follows: #1-70/80 #2-68/80 #3-71/80 #4-60/80 #5-70/80 #6-58/80. Drained oil and removed oil filter. Installed new champion oil filter CH48108-1 and svc with 100W- Removed the spark plugs, cleaned, gapped, tested and reinstalled. Replaced spark plug gaskets with new p/n: M574. All maintenance performed IAW C414 and TSIO 520 MM as applicable. Performed post maintenance ops and leak check, no defects noted.

I certify this engine installation was inspected IAW Annual Inspection and found to be in an airworthy condition.

Craig Scarnemoh A&P/IA  
AP34058161A

**CommandAviation** 2010 W Bakerview Road  
Bellingham, WA 98226

**LH ENGINE**  
A/C: N414G SN: 414 0024 Hobbs: 748.8 AFTT: 4629.8 Date: 09/06/2015  
ENGINE: TSIO-520-NB SN: 521470 TSMOH: 1802.7

Drained oil and removed oil filter. Installed new champion oil filter CH48108-1 and svc with 100W- Washed down engine. All maintenance performed IAW C414 and TSIO 520 MM as applicable. Performed post maintenance ops and leak check, no defects noted.

Craig Scarnemoh A&P/IA  
AP34058161A

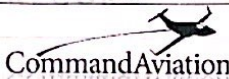
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TOTAL FROM  
PREVIOUS SUMMARY

TOTAL  
SINCE MFG.





2010 W Bakerview Road  
Bellingham, WA 98226

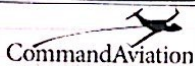
CENCE  
JMBER

**LH ENGINE**

A/C N414G S/N 414-0024 Hobbs: 802.0 AFTT: 4683 Date: 05/18/2017  
ENGINE: TSIO-520-NB S/N: 521470 TSMOH: 1849.9  
CW 100 hr. inspection IAW FAR part 43(d). Performed compression test, compressions as follows: #1-72/80 #2-70/80 #3-50/80 #4-65/80 #5-75/80 #6-75/80  
Drained oil and removed oil filter. Installed new champion oil filter CH48108-1 and svc with 100W+. Removed the spark plugs, cleaned, gapped, tested and reinstalled. Replaced spark plug gaskets with new p/n: M674. Removed leaking vacuum pump, disassembled, cleaned, repaired and reinstalled with new gaskets. All maintenance performed IAW C414 and TSIO 520 MM as applicable. Performed post maintenance ops and leak check. no defects noted

I certify this engine installation was inspected IAW Annual inspection and found to be in an airworthy condition

Craig Scamehorn A&P/IA  
AP34068161A



2010 W Bakerview Road  
Bellingham, WA 98226

**LH ENGINE**

A/C N414G S/N 414-0024 Hobbs: 830.6 AFTT: 4711.6 Date: 07/24/2017  
ENGINE: TSIO-520-NB S/N: 521470 TSMOH: 1895.4  
Removed leaking vacuum pump and send out for exchange. Installed overhaul exchange unit from Aircraft Accessories of Oklahoma. (p/n: 3P207 IAW n: 55023)  
All maintenance performed IAW C414 and TSIO 520 MM as applicable. Performed post maintenance ops and leak check, no defects noted

Craig Scamehorn A&P/IA  
AP34068161A

\*7:27:17

-DRAINED OIL. NO FILTER CHANGE AT THIS TIME.

HOBBS: 830.6

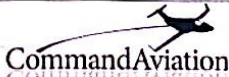
SERVICE ENGINE WITH 100W+ AEROSHELL. WASH DOWN

LH ENGINE

ENGINE. PERFORM POST MAINT. OP/LEAK CHECK, NO

DEFECTS NOTED. ALL MAINT. PERFORMED IAW TSIO 520MM

Craig Scamehorn A&P/IA  
AP 34068161A



2010 W Bakerview Road  
Bellingham, WA 98226

**LH ENGINE**

A/C N414G S/N: 414-0024 Hobbs: 845.4 AFTT: 4726.4 Date: 06/21/2018  
ENGINE: TSIO-520-NB S/N: 521470 TSMOH: 1893.3  
CW 100 hr. inspection IAW FAR part 43(d). Performed compression test, compressions as follows: #1-68/80 #2-64/80 #3-78/80 #4-60/80 #5-78/80 #6-74/80  
Drained oil and removed oil filter. Installed new champion oil filter CH48108-1 and svc with 100W+. Removed the spark plugs, cleaned, gapped, tested and reinstalled. Replaced spark plug gaskets with new p/n: M674. All maintenance performed IAW C414 and TSIO 520 MM as applicable. Performed post maintenance ops and leak check, no defects noted  
AD's checked thru biweekly listing 2018-12

I certify this engine installation was inspected IAW Annual inspection and was determined to be in an airworthy condition

Craig Scamehorn A&P/IA  
AP34068161A

## 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.	



L/H ENGINE S/N 521470

A/C N414G

Hobbs 873.2

A/C TT4754.2

TSMOH 1921.1

Completed 100 hr inspection. Compression checked as follows: #1 78/80, #2 78/80, #3 78/80 #4 76/80, #5 76/80, #6 78/80. Oil drained and reserviced with Aeroshell 100 plus. Oil filter removed and inspected, found to be OK. New 48108-1 filter installed. Spark plugs removed, cleaned and tested. Top plugs on Cylinders # 2 & 6 and bottom cylinder # 4 replaced due to resistance failure. Post maintenance runup and leak check completed, found OK.

I certify this engine has been inspected in accordance with Annual Inspection and found to be Airworthy.

Marvin Hornbostel, A&amp;P 1897610 IA

Raven Aero Service, Inc.

Mustang Maintenance &amp; Repair Ltd.

July 31, 2019

Left engine starter wiring repaired.

Right engine inspected for source of oil leaks. Suspect over serviced and crankcase breather is venting.

I hereby certify that the maintenance described herein has been performed in accordance with the applicable airworthiness requirements.

Signature of AME

432739  
License No.

Work Sheets on File.

06F 3, 2019	15	.7	1957.5	TSMOH	(4792.6 ACT)	01
JAN 26, 2020	7	.5	1967.0		(4780.0 ACT)	00

12/16/2020

Model: TSIO-520-NB

SN: 521470

ETT:

TSMOH: 0.0

3527 S Hangar Airport Rd  
Coolidge AZ 85128

This engine has been overhauled in accordance with the TCM overhauled manual X300574A and other FAA-approved procedures. All required AD's and SB's complied with. NDI inspection on internal parts ACSS w/ 259916. Camshaft overhauled RAM w/ 018362 and lifters repaired by ACSS w/ 259916. Connecting rods overhauled ACSS w/ 259916. Crankcase repaired by Crankcase Services w/ 30952. Crankshaft pin 649898 sn K30940N, repaired by ACSS w/ 259916. Counterweights repaired ACSS w/ 259916. Cylinders overhauled with new rings, pistons and piston pins. Fuel pump 646210-11 sn A318033B overhauled Aircraft Accessories of OK w/ 40196. Starter adapter with scavenge pump 642085A2 sn 293001 overhauled Aircraft Accessories of OK w/ 41528. Oil pump housing 632960 repaired Divco w/ 129728. Oil cooler 636900 sn 0379 overhauled Pacific Oil Cooler w/ 142205. Fuel manifold 634326-4AR sn A028010C overhauled RAM w/ 019513. Magneto 6320 sn 14110787 overhauled Aircraft Accessories of OK w/ 41530. Magneto 6320 sn 08101419 overhauled Aircraft Accessories of OK w/ 41529. Engine is approved for return to service.

TOTAL

TO Tanya Bennett 3133465A&amp;P

PREVIOUS SUMMARY

TOTAL  
SINCE MFG.

# 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					

02/10/2021	N414G	TCM TSIO-520NB	S/N: 521470	Left Engine Log
MX Hobbs		ACTT	ENGINE SMOH	ENGINE TSN
918.6		4799.6	0.0	N/A

Removed LH propeller P/N 3AF32C93NR S/N 748129 in serviceable condition to F.O.M.  
 Removed LH engine S/N 521470 for overhaul.  
 Removed alternator P/N ALV-9510 in serviceable condition to F.O.M.  
 Removed starter P/N 6462575 S/N N/A for overhaul.  
 Removed vacuum pump P/N 3P207JA S/N 27121 for overhaul.  
 Removed propeller governor P/N A210529 S/N 747355 for overhaul.  
 Complied with 200 hour inspection.  
 Installed B.A.T. Aviation Maintenance LLC overhauled engine S/N 521470 in LH position with new lord engine mount set J-9613-58 and new hardware.  
 Installed alternator P/N ALV-9510 S/N F1221550 in serviceable condition.  
 Installed overhauled starter P/N 6462575 S/N N/A.  
 Installed overhauled vacuum pump P/N 3P207JA S/N 27121.  
 Installed overhauled propeller governor P/N A210529 S/N 747355.  
 Installed new ignition harness P/N KA12381  
 Installed new baffle seal to existing baffles.  
 Installed LH propeller P/N 3AF32C93NR S/N 748129 in serviceable condition with new nuts P/N MS21044N8.  
 Installed new propeller governor rod end P/N S1106-3  
 Serviced engine with 12 qts of Aeroshell 80 SAE 40 mineral oil and oil filter P/N AA48108-2  
 Secured exhaust to tail pipes with new hardware.  
 Replaced all high pressure, low pressure, and scat hoses with new.  
 Operational and leak checks normal.

All work done Referencing Cessna SM, TCM SM, AC43.13-1B, 14 CFR Part 43 Appendix D, ICA's and standard practices.

I certify this aircraft has been inspected referencing a 100 hour inspection checklist with no defects noted at this time.

Oscar Gomez

A&P 3609700

02/13/2021  
 LH Engine Log  
 N141G  
 MX Hobbs: 918.6  
 TTAF: 4799.6

Complied with an Annual Inspection using Checklist.

All work done IAW Cessna SM, Continental SM, Reference AC43.13-1B, ICA's and standard practices ops and leak check good.

I certify this engine has been inspected IAW an Annual/ 100-hour checklist and is approved for return to service at this time.

Steven R Fox

A&P 3916289 IA

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		



# RECORD OF ENGINE DIRECTIVES (A/D), SERVICE BULLETINS (S/B),

DATE	A/D, S/B, S/I, MODS	DETAILS OF
18 Dec 98	Engines	
	77-13-22	MODIFIED IN JULY 1979
	78-06-01	MODIFIED IN MAY 1980
	79-05-09	MODIFIED IN MAY 1980
	82-09-01	NOT APPLICABLE BY SERIAL #
	86-13-04R3	NOT APPLICABLE BY TYPE INSTALLED
	89-24-01R1	MODIFIED IN DEC 1990
	80-01-04	MODIFIED IN MAY 1980
	81-24-06	NOT APPLICABLE BY SERIAL #
	87-23-08	WILL BE APPLICABLE AT ENGINE OVERHAULED
	88-03-06	NOT APPLICABLE BY TYPE INSTALLED
	91-19-03	NOT APPLICABLE BT TYPE INSTALLED
	93-08-17	TYPE NOT INSTALLED
	93-10-02	TYPE NOT INSTALLED
	93-16-15	TYPE NOT INSTALLED
	94-06-09	TYPE NOT INSTALLED
	96-12-22	TYPE NOT INSTALLED
	97-26-17	WILL BE APPLICABLE AT ENGINE OVERHAULED
18 Dec 98	98-01-08	NOT INSTALLED
6 MAY 2007	88-03-07	FUEL LINES INSPECTION
6 MAY 2007	96-12-22	OIL FILTER ADAPTER
6 MAY 2007	2000-01-16	EXHAUST INSPECTION LETTER