



ENGINE MAINTENANCE RECORDS

Aircraft Registration

Engine Position

Engine Serial No.

Left

218685-H



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. _____

Engine Manufacturer Continental

Model TSIO-520-NB

Serial No. 218685-H

Date installed on aircraft _____

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

☐ Right

☒ Left

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

254/752-8381

FAX 254-752-3307

1-800-445-9713

The RAM logo, featuring the word "RAM" in a bold, blue, stylized font with a horizontal line passing through the middle of the letters.

CONTINENTAL TSIO-520-NB Series VI Left Engine S/N 218685-H

Anthony S. G...

[illegible]

John Edgar Hoover

TOTALS—Carry forward to next page



Michael J. Gick
Lafayette Aviation, Inc.
1630 Aviation Dr.
West Lafayette IN. 47906
Repair Station #AHRR100C

8-26-14	79.0 TSH	362010	CHANGE OIL & OIL FILTER ; INSPECT FOR Debris None Found ; obtained oil sample - Serviced with Amsoil 10W and API Fluid # CV148108-1 Run 400 Check & Operational Satisfactory Return To Service RHS for 30866436KLP	
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			TOTALS —Carry forward to next page	

Date 11-13-2014 Engine Model TS1c520nB S/N 218685- H Left engine Hobbs-3678.8

T/T/S/O 137.8

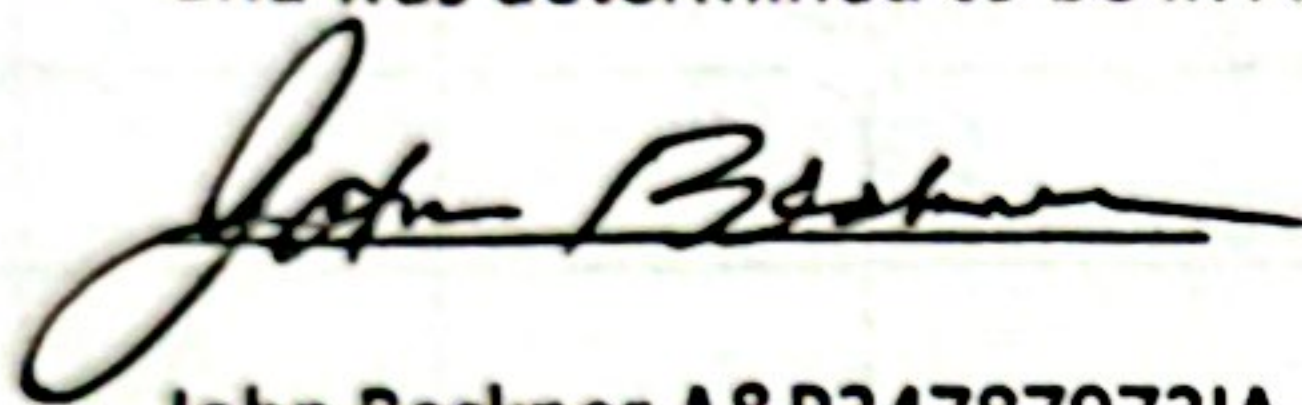
C/W Annual Inspection I/A/W continental M/M

Drained Oil. Air oil filter. Serviced oil with W-100 plus oil filter p/n CH 48108-1

Compression Check #1. 78, #2. 78, #3.79, #4.77, #5. 76, #6. 79.

Ground run and leak check good, AD check thru 2014.

I certify that engine has been inspected in accordance with 100 hr/Annual inspection and was determined to be in Airworthy condition and is approved for return service.



John Beckner A&P34787973IA

-11-15	3725.9	TACH	CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH 48108-1 CHECK FOR Debris NONE NOTED RUN LEAK AND OPERATIONAL CHECK SATISFACTORY RETURN TO SERVICE. ^{WASH CHAMBER} Rlt E Van A&P 308664374
5-11-15	3783.9	TACH	CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH 48108-1, CHECK FOR Debris, NONE NOTED, RUN LEAK CHECK AND OPERATIONAL SATISFACTORY RETURN TO SERVICE ^{WASH CHAMBER} Rlt E Van A&P 308664374
-15-15 -15-15	3830.6	TACH	CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR Debris, NONE NOTED, RUN LEAK CHECK AND OPERATIONAL CHECK SATISFACTORY ^{WASH CHAMBER} RETURN TO SERVICE. Rlt E Van A&P 308664374
-28-15	3880.1	TACH	CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR Debris, NONE NOTED, RUN LEAK AND OPERATIONAL CHECK SATISFACTORY. ^{WASH CHAMBER} RETURN TO SERVICE Rlt E Van A&P 308664374
			SUB-TOTALS this page
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
8-31-75	3901.1	TACH		CHANGE VACUUM PUMP WITH OVERHAUL'D RACO PART # 4422W SERIAL # 1163668 AND NEW GASKET. OPERATIONAL & LEAK CHECK SATISFACTORY RETURN TO SERVICE. INTRT CRNAIA Rht E Kon 308664324 AEP
10-29-75	3938.9	TACH.		CHANGE OIL WITH AEROSHELL 100W; CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR DEBRIS, NONE NOTED, RUN LEAK AND OPERATIONAL CHECK. SATISFACTORY INTRT CRNAIA. RETURN TO SERVICE. Rht E Kon AEP 308664374

February 28, 2016 (L)

Total Time Engine: 0407

Hobbs: 3948.0

- Complied with 100-hour/annual inspection IAW Cessna Model 414 service manual.
- Compression: 1) $74/80$ 2) $69/80$ 3) $58/80$ 4) $70/80$ 5) $70/80$ 6) $75/80$
- Changed oil filter, installed p/n: CH48108-1 filter. Inspected filter for debris, none noted.
- Installed new Induction air filter p/n: P12-8156.
- See separate file for AD listing and compliance.

I certify that this engine has been inspected in accordance with a 100-hour/annual inspection and determined to be in airworthy condition.

Date: 02/28/16 Tach: 3948.0

Robert E. Allen AP31192191851
Signature and A&P/A Number

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February 28, 2017 (L)

Total Time Engine: 590.5

Hobbs: 4131.5

- Complied with 100-hour/annual inspection IAW Cessna Model 414 service manual.
- Compression: 1) $^{72}/_{80}$ 2) $^{67}/_{80}$ 3) $^{71}/_{80}$ 4) $^{71}/_{80}$ 5) $^{66}/_{80}$ 6) $^{75}/_{80}$
- Installed all new RHB32E spark plugs.
- See separate file for AD listing and compliance.

I certify that this engine has been inspected in accordance with a 100-hour/annual inspection and determined to be in airworthy condition.

Date: 02/28/17

Tach: 4131.5

Robert E. Allen AP31192198DA

Date		Miles		Remarks	
3/29/77		4152.4		CHANGE OIL WITH 12 QTS AeroShell 100W and OIL FILTER CH48108-1 CHECK FILTER FOR Debris None NOTED- VISUALLY INSPECT EXHAUST AND PRESSURE SYSTEM NO DEFECTS NOTED. TEST RUN ENGINE FOR LEAK TEST AND OPERATIONAL CHECK SATISFACTION	
RtE Km AEP 308664324					
8/22/77		4197.0		CHANGE OIL WITH 12 QTS AeroShell 100W and OIL FILTER CH48108-1 CHECK FILTER FOR Debris None NOTED INSPECT EXHAUST BY VISUAL AND PRESSURIZING SYSTEM NO DEFECTS NOTED ROTATE ALL PLUGS (CLEAN) CHECK TIMING OR MAGS- INSPECT WASTE GATE CONTROLLER CLEAN ALL OIL LINES TO TURBO & WASTE GATE CLEAN LINE TO OIL PRESSURE GAGE. OIL PRESSURE > engine SATISFACTORY- TEST RUN ENGINE & OPERATIONAL CHECK SATISFACTION	
RtE Km AEP 308664324					
12/26/77		4248.5		CHANGE OIL WITH 12 QTS AeroShell 100W and OIL FILTER CH48108-1 CHECK FILTER FOR Debris None NOTED. INSPECT EXHAUST BY VISUAL INSPECTION AND PRESSURIZE SYSTEM NO DEFECTS NOTED CLEAN AND ROTATE ALL PLUGS CHECK TIMING OR MAGS inspect all OIL lines and leaks None noted TEST RUN ENGINE & OPERATIONAL CHECK SATISFACTION	
RtE Km AEP 308664374					
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ENGINE MAINTENANCE RECORDS

Aircraft Registration	<u>N 17 A M</u>
Engine Position	<u>Right</u>
Engine Serial No.	<u>521 231</u>



Michael J. Gish
Lafayette Aviation, Inc.
1630 Aviation Dr.
West Lafayette, IN. 47906
Repair Station #AHRRI00C

7-24-14		3596.2	Remove & Replace RT ALTERNATOR ALV-9610 AS PER RAM INSTRUCTIONS. { HARTZELL SL A-140 And. Remove CONTROLLER SB-11-3 DUNE COUPLERS Test Run Return TO Service-	
			RATE LOW DEP 308664324	
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John Beane

3-11-15	3725.9	TACH	CHANGE OIL WITH AeroShell 100W CHANGE OIL FILTER WITH CH-4810B-1; Check FOR Debris, NONE NOTED, RUN LEAK AND OPERATIONAL CHECK, SATISFACTORY. INSPECT COWLINGS. RETURN TO SERVICE.
			Rlt E Kam AEP-308664374
			SUB-TOTALS this page
			TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
5-11-15	3783.9	TACH		CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR DEBRIS, NONE NOTED. RUN LEAK AND OPERATIONAL CHECK SATISFACTORY, INSPECT EXHAUST. RETURNS TO SERVICE. Rht E Kam AEP 308664324
6-15-15	3830.6	TACH		CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR DEBRIS, NONE NOTED. RUN LEAK AND OPERATIONAL CHECK. SATISFACTORY. INSPECT EXHAUST. RETURN TO SERVICE Rht E Kam AEP 308664324
8-28-15	3880.1	TACH		CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR DEBRIS, NONE NOTED. RUN LEAK AND OPERATIONAL CHECK SATISFACTORY INSPECT EXHAUST RETURN TO SERVICE Rht E Kam AEP 308664324
10-29-15	3938.9	TACH		CHANGE OIL WITH AEROSHELL 100W, CHANGE OIL FILTER WITH CH-48108-1, CHECK FOR DEBRIS NONE NOTED. RUN LEAK AND OPERATION CHECK SATISFACTORY INSPECT EXHAUST. RETURN TO SERVICE Rht E Kam AEP 308664324
10-29-15	3938.9	TACH		INSTALL NEW OIL TACH DRIVE SEAL #653023, NEW GEAR SHAFT #535908, OVERHAULED OIL PUMP DRIVE SHAFT PN# 631075, WITH GASKETS- 653023 AND 653487. INSTALLED OIL PUMP DRIVE HOUSING WITH SEALANT AND SICK THREADED TORQUED AND RUN LEAK CHECK AND OPERATIONAL. SATISFACTORY. INSTALLED OVERHAULED TACH GENERATOR PART # 22A667 SERIAL # 2087. OPERATIONAL CHECK SATISFACTORY. Return to Service Rht E Kam AEP 308664324

DESCRIPTION OF WORK PERFORMED
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING

Page No.

DATE _____

PSYCHIC FORCE IN REMATCH

THE

FROM CIA
RECEIVED
APR 19 1964
TIME

TOTALS brought forward from previous page

11-6-12

3940 6 TACH

Install overhauled RAPCO VACUUM PUMP
PN 442CW Serial # 165938 & new GASKET
OPERATION & LEAK CHECK SATISFACTORY

Return to Service

Return to S&P
Relg Kom N3P 30866 4324

February 28, 2016 (R)

Total Time Engine: 0407

Hobbs: 3948.0

- Complied with 100-hour/annual inspection IAW Cessna Model 414 service manual.
- Compression: 1) $^{66}/_{80}$ 2) $^{62}/_{80}$ 3) $^{76}/_{80}$ 4) $^{76}/_{80}$ 5) $^{68}/_{80}$ 6) $^{78}/_{80}$
- Changed oil filter, installed p/n: CH48108-1 filter. Inspected filter for debris, none noted.
- Installed new Induction air filter p/n: P12-8156.
- See separate file for AD listing and compliance.

I certify that this engine has been inspected in accordance with a 100-hour/annual inspection and determined to be in airworthy condition.

Date: 02/28/16

Tach: 3948.0

Robert E. Allen AP311921918FA

Signature and A&P/IA Number

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
7/24/16	459.9		4000.9	CHANGE OIL WITH Aerostell 100W 12 QT'S AND OIL FILTER CH 48108-1 CHECK FILTER FOR Debris None Noted INSPECT EXHAUST BY VISUAL INSPECTION AND PRESSURIZED SYSTEM NO DEFECTS NOTED. TEST RUN ENGINE LEAK CHECK AND OPERATIONAL SATISFACTORY Rett E Van AEP 308664374
10/7/16			4051.4	CHANGE OIL WITH Aerostell 100W 12 QT'S AND OIL FILTER CH 48108-1 CHECK FOR Debris None NOTED INSPECT EXHAUST BY VISUAL INSPECTION AND PRESSURIZED SYSTEM NO DEFECTS NOTED TEST RUN ENGINE AND OPERATIONAL SATISFACTORY Rett E Van 308664324 AEP
1/3/17			4162.6	CHANGE OIL WITH Aerostell 100W 12 QT'S AND OIL FILTER CH 48108-1 CHECK FILTER FOR Debris None NOTED INSPECT EXHAUST BY INSPECTION VISUALLY AND PRESSURIZED SYSTEM, NO DEFECTS NOTED. TEST RUN ENGINE AND OPS CHECK SATISFACTORY Rett E Van AEP 308664374

February 28, 2017 (R)

Total Time Engine: 590.5

Hobbs: 4131.5

- Complied with 100-hour/annual inspection IAW Cessna Model 414 service manual.
- Compression: 1) $63/80$ 2) $68/80$ 3) $65/80$ 4) $70/80$ 5) $67/80$ 6) $68/80$
- Installed all new RHB32E spark plugs.
- See separate file for AD listing and compliance.

I certify that this engine has been inspected in accordance with a 100-hour/annual inspection and determined to be in airworthy condition.

Date: 02/28/17

Tach: 4131.5

Robert E. Van AP311921918 IA

Signature and A&P/IA Number

TOTALS—Carry forward to next page

Make Cessna Model 414 Serial No./No. 414-0524

Task	Reading	Date	Notes
Hubbs	4134.9	3-6-17	Set-up fuel on Rt. engine in accordance with RAM STD 2006-01 Adjusted High end fuel pressure and fuel limiter as needed. END.

**NORTHWEST AVIATION
MAINTENANCE, INC.**
1705 East Main Street • Griffith, IN 46319
Telephone: (219) 922-2632 • 800-247-7070

W.O. # 6899
Thomas G. Jansich Jr.
 Authorized Signature AP 30444531A

3/29/17		4152.4	Change oil with Aeroshell 100w 12GTS and oil filter CH 48109-1 Check filter for debris none noted. Inspect exhaust for visual and pressurize system no debris noted. Test run engine for leaks and operations satisfactory.	
			RtE Km 308664324 AEP.	
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
8/22/17			4197.0	CHANGE OIL WITH 12 QTS Castrol 100W AND FILTER CH48108-1 CHECK FILTER FOR Debris None Noted Inspect Exhaust by VISUAL INSPECTION and PRESSURE SYSTEM NO DEFECTS NOTED TEST RUN ENGINE NO LEAKS AND OPERATION CHECK SATISFACTORY RME from AEP 308664371
12-20-17			4248.5	CHANGE OIL WITH 12 QTS AeroShell 100W AND FILTER CH48108-1 CHECK FILTER FOR Debris None Noted. Inspect Exhaust by VISUAL INSPECTION and PRESSURE SYSTEM. NO DEFECTS NOTED. CLEAN and Rotate Props TEST RUN ENGINE. NO LEAKS DETECTED. OPERATIONS CHECK SATISFACTORY RME from AEP 308664374.
				March 7, 2018 (R) Total Time Engine: 744.9 Hobbs: 4285.9 - Complied with 100-hour/annual inspection IAW Cessna Model 414 service manual. - Compression: 1) $63/80$ 2) $68/80$ 3) $65/80$ 4) $70/80$ 5) $67/80$ 6) $68/80$ - See separate file for AD listing and compliance. I certify that this engine has been inspected in accordance with a 100-hour/annual inspection and determined to be in airworthy condition. Date: <u>03/07/18</u> Tach: <u>4285.9</u> <u>Robert E. All</u> AP3119219/8 DA Signature and A&P/IA Number
				SUB-TOTALS this page
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page Air Tolin Lunken Airport Cincinnati, Ohio 513-871-8235 N17AM 6-18-2020 HT4497.6 right engine TSMOH956.8 cleaned and gapped spark plugs.checked compression 1 80/80 2 70/80 3 60/80 4 69/80 5 64/80 6 68/80. changed oil filter and oil checked old filter for metal ok installed new AA48108-2 filter and 12Qts Aeroshell100W oil.installed new P/N P12-8156 I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.John Beckner A&P3498797-IA <i>John Beckner</i>
1-13-21		TSMOH 998.6	4539.6	CHanged oil with Aeroshell 100w PLUS And Filter CH-48108-1 Checked Fou Debris none noted. Inspect exhaust by VISUAL INSPECTION AND PRESSURIZATION NO DEFECTS NOTED- TEST RUN ENGINE AND LEAK CHECK OPERATION SATISFACTORY <i>Ruth E Van</i> A3P308664364 IA Air Tolin Lunken Airport Cincinnati, Ohio 513-871-8235 N17AM hobbs time4673.4 right engine 8-25-22 inspected engine in accordance with 100HR/Annual inspection using AppendixD part43 inspection checklist. inspected exhaust system IAW AD2000-01-16 b-e replaced inboard P/N2274-20 elbow clamp P/N2535-250.checked compression1 62/80 2 60/80 3 65/80 4 62/80 5 62/80 6 75/80 I certify that this engine has been inspected in accordance with an annual inspection and determined to be in airworthy condition.John Beckner A&P3498797-IA

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	DATE
				TOTALS brought forward from previous page	
1-23	1167.1		4708.7	CHANGED OIL WITH 12 QTS AeroShell 100 WPWS AND FILTER, CHECKED FOR Debris None Found. Inspect exhaust BY VISUAL INSPECTION. OK. TEST RAN Engine Leak Checked. SATISFACTORY. RUE Karp AEP 308664364 IA	
1-23	1167.1		4708.7	Replaced Vacuum Pump RAPCO RAP442CW S/N 202362 TEST RAN SATISFACTORY RETURN TO SERVICE RUE Karp AEP 308664364 IA	
2-12-24	1201.3		4742.3	Complied with 100HR/ANNUAL INSPECTION. TAW model 414 CYSMA SERVICE MANUAL. COMPRESSIONS 1-60, 2-58, 3-63, 4-60, 5-58, 6-74 CHANGED OIL WITH 12 QTS AeroShell 100 WPWS AND FILTER CHECKED FOR Debris None NOTED. Inspect exhaust BY VISUAL INSPECTION OK. Cleaned Rotax Pumps Checked MAG TIMING. See SERVIC AD 425MP And Compliance. I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH 100HR/ANNUAL INSPECTION AND DETERMINED TO BE IN AIRWORTH CONDITION. RUE Karp AEP 308664364 IA	
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