



# ENGINE MAINTENANCE RECORDS

Aircraft Registration N706AA  
Engine Position Left  
Engine Serial No. 292445-R



## ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

Aircraft Registration No. N706AA

Engine Manufacturer Continental

Model GTSIO-520-N

Serial No. 292445-R

Date installed on aircraft 9/18/14

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

☐ Right

☒ Left

Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time
9/18/14	1520.7	0.0	068.5



RAM Aircraft, Limited Partnership • Waco Regional Airport

CONTINENTAL GTSIO-520-N Left Engine S/N 292445-R

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/TCM SM X-30045 and I/A/W STC SA8338SW-D. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. L, dated 12-26-2013. Installed above referenced engine in left position of Cessna s/n 421C1075. Installed new RAM camshaft p/n 2621-1, s/n XGF13025 as direct PMA replacement of Continental camshaft. Installed lifters p/n 658088 int. p/n 658077 exh. AD 10-11-04 n/a to lifter p/n installed. Installed overhauled VAR crankshaft p/n 652832, s/n A071M1. Ultrasonic inspection C/W per MSB96-10A and is due at next overhaul or when crankshaft removed. Continental GTSIO-520 series engine crankshaft counterweights, p/n 652833-OH are repaired in accordance with FAA approved procedures per RAM Drawing 2618, Rev. B, dated 11-15-05. Instructions for Continued Airworthiness: Remove p/n 652833-OH counterweights at next engine overhaul and replace with new per Continental SB00-3A, or later FAA approved revision, except if repaired by RAM Aircraft, Limited Partnership per latest FAA approved revision of RAM Drawing 2618. Contact RAM Aircraft, L.P. at 7505 Karl May Drive, Waco TX 76708, or (254)752-8381 for replacement parts or service difficulties. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W Continental MSB99-6A. Engine assembled with new Continental heavy style crankcase p/n 656935-12, s/n R14HA074. Installed new Continental nickel cylinders. Installed Floscan transducer per STC SE5726SW-D. Cleaned, inspected, re-sealed piston dome and reinstalled McCauley propeller model 3FF32C501, s/n 806432. Engine accessories exchanged for overhauled or new units except as noted. Flushed and re-used customer's prop governor s/n 810437. Re-used customer's vacuum pump s/n C3417, landing gear hydraulic pump no s/n and tach generator s/n 4430. Installed new Hartzell ALV 9610 alternator (weight 12.75 lbs). See weight and balance change entered in P.O.H. Installed factory overhauled turbocharger p/n 465930-9003 s/n H-RGR00319. Installed General Aviation Modifications, Inc. turboGAMIjectors Kit No. TIGT520-19A, s/n 11275 per STC SE09963SC. Continental Service Bulletin SB06-1A N/A per installation of GAMI fuel nozzles. MSB94-8D on magneto timing procedure c/w per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Engine modified to GTSIO-520-N per Continental Service Bulletin M-75-6 Rev. 1. Installed RAM FAA-PMA rocker arms p/n 1654-1 and -2 (STC SE8338SW-D). AD 2000-01-16 c/w, see airframe log for details. Installed new Aeroquip integral firesleeved fuel, oil and hydraulic hoses meeting TSO-C53A Type D and TSO-C75 Type III. Installed new oil cooler p/n 8000464, s/n 3859524. AD 2007-05-15; starter adapter shaftgear and crankshaft gear inspection, c/w per Continental Service Bulletin MSB94-4G, Part 5 per installation of Service Kit EQ6642 and bushing p/n 654472. Damper backlash inspection per Part 2 due in 100 flight hours. Visual inspection of crankshaft gear and starter adapter shaftgear due per Part 3 in 400 flight hours. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Relocated turbo oil supply line per RAM Dwg. No. 1224, Rev H, dated 11-18-03 per STC SE8338SW-D. AD 87-04-05 c/w at overhaul. Engine serviced with Aeroshell W100 mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Installed RAM FAA-PMA spring loaded induction clamps p/n 1170-1. Installed RAM FAA-PMA rocker box cover gaskets p/n 1366-1. Engine ground run on test stand per RAM specifications for 4 hours. Engine pump pressure, idle, mixture, fuel flow, max RPM, manifold pressure, and oil pressure adjusted per Continental SID97-3F. Engine ground run power test good. All engine systems checked for leaks. Engine approved for return to service for the work performed. Pertinent details on file under Project No. 7392.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

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## N706AA LEFT

JANUARY 6, 2015 HM 83.10 TOTAL TIME  
4472.10. PERFORMED COMPRESSION #1 79/80  
#2 79/80 #3 78/80 #4 79/80 #5 78/80 #6 78/80.,  
CHECKED OIL FILTER NO METAL. INSTALLED  
CH48109-1 FILTER. CHECKED MAG TO ENGINE  
TIMING. INSPECTED ENGINE ACCESSORIES  
FOR SECURITY. RAN ENGINE, NO LEAKS.  
JERRY B. PARKER A&P215P0438

*Jerry B. Parker*

## N706AA

JANUARY 6, 2015 HM 83.10 TOTAL TIME  
4472.10 I CERTIFY THAT THIS ENGINE HAS  
BEEN INSPECTED IN ACCORDANCE WITH A  
100 HR INSPECTION AND WAS  
DETERMINED TO BE IN AN AIRWORTHY  
CONDITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

## N706AA LEFT

FEBRUARY 5, 2016 HM 151.20 TOTAL TIME  
4540.20 PERFORMED COMPRESSION #1 74/80 #2  
74/80 #3 78/80 #4 72/80 #5 76/80 #6 76/80.  
CHECKED OIL FILTER NO METAL. INSTALLED  
CH48109-1 FILTER, CHECKED MAG TO ENGINE  
TIMING. CLEANED AND GAPPED SPARK PLUGS.  
INSPECTED ENGINE ACCESSORIES FOR  
SECURITY. CW AD 2007-05-106 STARTER DRIVE  
INSPECTION, NEXT 100 DUE AT HM 251.20, NEXT  
400 HR DUE AT HM 451.20. RAN ENGINE, NO  
LEAKS.. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

## N706AA

FEBRUARY 5, 2016 HM 151.20 TOTAL TIME  
4540.20. I CERTIFY THAT THIS ENGINE HAS  
BEEN INSPECTED IN ACCORDANCE WITH A  
100 HR INSPECTION AND WAS  
DETERMINED TO BE IN AN AIRWORTHY  
CONDITION. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

## N706AA LEFT ENG

DECEMBER 22, 2015 HM 144.40 DRAINED  
OIL, CUT FILTER, NO METAL, ADDED 13 QTS  
AEROSHELL W100 AND INSTALLED  
CH48109-1 FILTER. RAN ENGINE NO LEAKS.  
JERRY B. PARKER A&P2150438

*Jerry B. Parker*

## N706AA LEFT ENGINE

JUNE 16, 2016 HM 186.60 DRAINED OIL, CUT  
FILTER, ADDED 13 QTS AEROSHELL W100  
OIL AND INSTALLED CH48109-1 FILTER.  
RAN ENGINE, NO LEAKS. JERRY B. PARKER  
A&P2150438

*Jerry B. Parker*

## N706AA

MARCH 22, 2017 HM 230.00 TT 4619.00  
PERFORMED COMPRESSION #1 75/80 #2 77/80  
#3 76/80 #4 76/80 #5 77/80 #6 76/80. CHECKED  
OIL FILTER NO METAL. INSTALLED CH48109-1  
FILTER. FILLED ENGINE SUMP WITH 13 QTS  
AEROSHELL W100. INSPECTED ENGINE  
ACCESSORIES FOR SECURITY.. CHECKED MAG  
TO ENGINE TIMING. CLEANED AND GAPPED  
PLUGS. RAN ENGINE NO LEAKS. JERRY B.  
PARKER A&P2150438

*Jerry B. Parker*

## N706AA

MARCH 22, 2017 HM 230.00 TT 4619.00 I  
CERTIFY THAT THIS ENGINE HAS BEEN  
INSPECTED IN ACCORDANCE WITH A 100  
HR INSPECTION AND WAS DETERMINED  
TO BE IN AN AIRWORTHY CONDITION.  
JERRY B. PARKER A&P2150438

*Jerry B. Parker*

TOTAL

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N706AA

MARCH 22, 2017 HM 230.00 CW AD 07-05-15  
STARTER DRIVE INSPECTION, PART 2  
BACKLASH, PART 2 DUE AGAIN AT HM  
351.20 PART 3 DUE AT HM 451.20. JERRY B.  
PARKER A&P2150438

*Jerry B. Parker*

N706AA LEFT

APRIL 17, 2018 HM 316.60 AFTT 4705.00 PERFORMED  
COMPRESSION TEST #1 72/80 #2 74/80 #3 68/80 #4  
78/80 #5 74/80 #6 78/80. DRAINED OIL, CUT FILTER, NO  
METAL. ADD 13 QTS AEROSHELL W100 OIL AND  
INSTALLED CH48109-1 FILTER. CHECKED MAG TO  
ENGINE TIMING. CHECKED ALL ACCESSORIES FOR  
SECURITY. INSTALLED 12 NEW URHB32E SPARK  
PLUGS. RAN ENGINE, NO LEAKS. JERRY B. PARKER  
A&P2150438

*Jerry B. Parker*

N706AA

APRIL 17, 2018 HM 316.60 ATT 4705.00 I  
CERTIFY THAT THIS ENGINE HAS BEEN  
INSPECTED IN ACCORDANCE WITH A 100  
HR INSPECTION AND WAS DETERMINED  
TO BE IN AN AIRWORTHY CONDITION.  
JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N706AA LEFT ENGINE LOG

SEPTEMBER 28, 2017 HM 286.20 DRAINED  
OIL, CUT FILTER, NO METAL ADDED 13 QTS  
AEROSHELL W100 AND INSTALLED  
CH48111-1 FILTER. RAN ENGINE, NO  
LEAKS. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N706AA LEFT ENG

DECEMBER 21, 2017 HM 291.10 DRAINED  
OIL, CUT FILTER, NO METAL, ADDED 13 QTS  
AEROSHELL W100 AND INSTALLED  
CH48109-1 OIL FILTER. RAN ENGINE, NO  
LEAKS. JERRY B. PARKER A&P2150438

*Jerry B. Parker*

N706AA LEFT

MAY 9, 2019 HM 359.80 ENG SMOH 291.30 TTSN 1812.00.  
COMPRESSION #1 74/80 #2 72/80 #3 74/80 #4 72/80. #5 72/80  
#6 72/80. DRAINED OIL INSPECTED OIL FILTER NO  
METAL, ADDED 12 QTS AEROSHELL W100 OIL,  
INSTALLED CH48109-1 FILTER. CLEANED AND  
INSPECTED SPARK PLUGS. CHECKED MAG TO  
ENGINE TIMING. CHECKED ALL ACCESSORIES FOR  
SECURITY. CW AD 07-05-15 STARTER DRIVE  
INSPECTION, ALL READINGS WERE .050 OR BELOW,  
NEXT PART 1 HM 430.00 PART 2 DUE AT HM 468.50  
RAN ENGINE, NO LEAKS. JERRY B. PARKER  
A&P2150438

*Jerry B. Parker*

N706AA LEFT

MAY 9, 2019, HM 359.80 ENG SMOH 291.30  
TTSN 1812.00 I CERTIFY THAT THIS  
ENGINE HAS BEEN INSPECTED IN  
ACCORDANCE WITH A 100 HR INSPECTION  
AND WAS DETERMINED TO BE IN AN  
AIRWORTHY CONDITION. JERRY B.  
PARKER A&P2150438

*Jerry B. Parker*

N706AA LEFT

JUNE 20, 2020 HM 404.50 TTSN 1602.35 SMOH  
336.00 COMPRESSION TEST #1 70/80 #2 66/80 #3  
64/80 #4 76/80 #5 66/80 #6 74/80. CALIBRATED  
ORFICE USED FOR COMPRESSION LIMITS.  
CHECKED MAG TO ENGINE TIMING. REMOVED  
ALL SPARK PLUG, CHECKED GAPS.  
REINSTALLED PLUGS. INSPECTED ALL  
ACCESSORIES FOR SECURITY. DRAINED OIL,  
CUT FILTER, NO METAL, ADDED 12 QTS  
AEROSHELL W100 OIL. INSTALLED AA48109  
FILTER. RAN ENGINE, NO LEAKS. JERRY B.  
PARKER A&P2150438

*Jerry B. Parker*

SUB-TOTALS

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## N706AA LEFT

JUNE 20, 2020 HM 404.50 TSN 1602.35  
SMOH 300. THIS ENGINE HAS BEEN  
INSPECTED IN ACCORDANCE WITH A 100  
HR INSPECTION USING FAR APPENDIX d  
AND WAS DETERMINED TO BE IN AN  
AIRWORTHY CONDITION. JERRY B.  
PARKER A&P 2150438

*Jerry B. Parker*

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

Is brought forward from previous page

## N706AA Left Engine

July 9, 2021. HM 422.6. Comp:1-72/80 2-70/80 3-70/80 4-7280 5-68/80 6-68/80 Drained oil, cut filter, checked for abnormalities. Installed new filter P/N AA48109. Refilled sump:12QTs W100 Cleaned/Gapped spark plugs. Checked mag engine timing. Ran engine checked for leaks & proper operation. A/D 07-05-15 Starter drive-C/W part 2 (100hr) of msb94-4g N/D HM 522.6 or next annual W.O.F. Part 3 (400hr) due @ HM 468.5. Shane Packard A&P 3361758

*SP*

## N706AA Left Engine

July 9, 2021. HM 422.6 TSN1874.8 SMOH 354.1. I certify this engine has been inspected in accordance with CFR 43 appendix D and was determined to be in an airworthy condition. Shane Packard A&P 3361758

*SP*

*NETP*

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Make:	Continental		Reg No.:	N706AA	
Model:	GTSIO-520-N		Date:	6/15/2025	
Serial No.:	292445-R		W/O No.:	2581	
AFTT:	4830.7	LEFT ENGINE MAINTENANCE ENTRY		Hobbs:	0.0
		TSMOH:	373.2		

### Description of Work Accomplished.

#### Work Completed:

- \* Completed Hot Compression Check as follows: #1= 70/80, #2= 62/80, #3= 70/80, #4= 65/80, #5= 62/80, #6= 62/80
- \* Completed Oil & Filter Change. Serviced engine with 12 Quarts Phillips X/C 20W50 and New **AA48109** Filter. Sent sample to Blackstone Laboratories.
- \* Removed Spark Plugs, cleaned, reinstalled all with new gaskets
- \* Installed new Engine Intake Clamps P/N: **1170-1** as needed
- \* Installed new Engine Fuel Injector seals P/Ns: **630979-9, SA640612, & X1473**

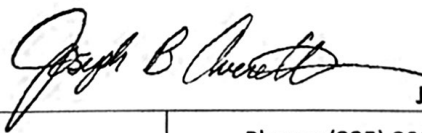
#### Inspections Completed:

- \* Complied with Engine **100HR/Annual Inspection** IAW manufacturer's instructions and current FARs
- \* C/W AD **2007-05-15 (h)** Starter Adapter Assembly & Crankshaft Gear IAW TCM MSB 94-4G Part 2. Backlash Measurements: .03, .02, .02, & .02. Next Inspection Due: **4930.7** or **6/15/2026**, whichever occurs first.
- \* C/W AD **2007-05-15 (j)** Starter Adapter Assembly & Crankshaft Gear IAW TCM MSB 94-4G Part 3. Next Inspection Due: **5230.7**
- \* C/W AD **2023-05-16** Crankshaft Counterweight Retaining Rings IAW Continental MSB23-01A. Not Applicable by Part No. & Serial No. No Further Action Required
- \* C/W AD **2023-02-12** Intake Valve Failures IAW Superior MSB22-01. Applicable Parts Not Installed. No Further Action Required
- \* C/W AD **2022-16-03** S-1200 Series Magneto Roller Bearings IAW Continental CSB673C. Found to be N/A by Serial No. No Further Action Required
- \* C/W AD **2020-16-11** Cross-Flow Cylinder Assembly Fractures IAW Continental MSB18-08B. Found to be N/A by Date & Part No. No Further Action Required
- \* C/W AD **2016-16-12** AEC/CMI Cylinder Assemblies IAW ECi SI 99-8-19. Found to be N/A by Parts Installed. No Further Action Required

### Approval for Return to Service

The article identified above was repaired and inspected in accordance with current FAA regulations and was found to be airworthy and is approved for return to service. Pertinent details of the work performed are on file at this agency under this work order.

Authorized Signature



Joseph B Averett 2740243 IA/AP

Hancock Aviation LLC  
4409 Chuck Yeager Avenue  
Baton Rouge, LA 70807

Phone: (225) 800-2359 Fax: (225) 224-6211  
Email: info@hancockaviation.com  
Web: www.hancockaviation.com

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