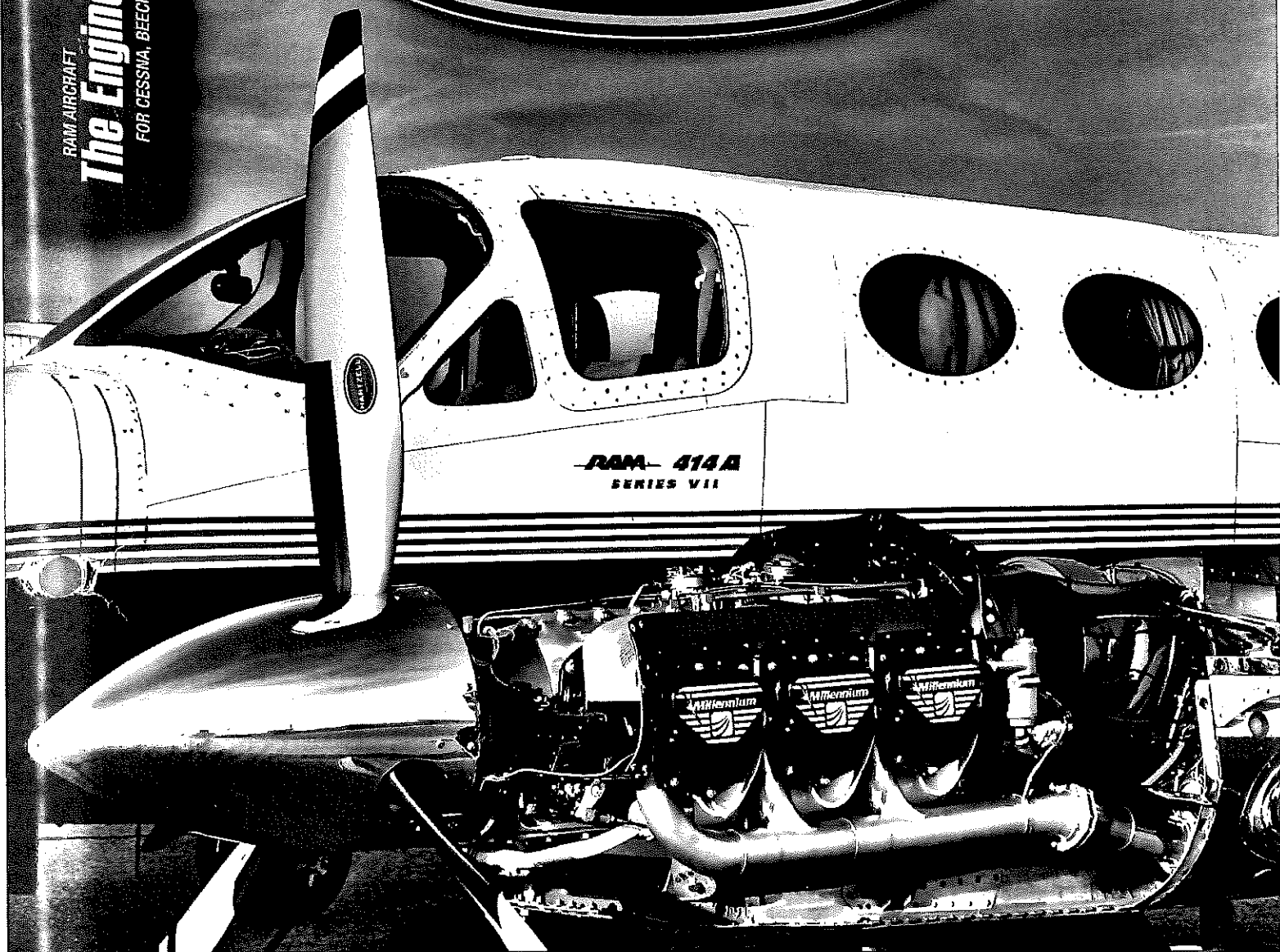


RAM AIRCRAFT
The Engine Specialist
FOR CESSNA, BEECHCRAFT, & CIRRIUS AIRCRAFT



ENGINE MAINTENANCE RECORDS

Aircraft Registration N5874C
Engine Position Left
Engine Serial No. 272324-R



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N5874C - 0882

Engine Manufacturer Continental

Model GTS10-520-L

Serial No. 272324-R

Date installed on aircraft 12-17-17

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

Right

Left

Waco Regional Airport
7505 Karl May Drive • P.O. Box 5219 • Waco, Texas 76708
Phone: (254) 752-8381 Fax: 254-752-3307
www.ramaircraft.com

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time
10/17/17	3768.4	0.0	4171.8



CONTINENTAL GTSIO-520-L Left Engine S/N 272324-R

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/ CMI SM X-30045 and M-O, Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnetic particle inspected, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. P, dated 07/19/2017. Above referenced engine modified per STC SE8338SW-D. Installed new RAM camshaft p/n 2621-1, s/n XGA14111 as direct PMA replacement of Continental camshaft. Installed lifters p/n SA628488 int., p/n SA646277 exh. I/A/W Ram Dwg. 2813 Rev. A dated 11-19-09. AD 10-11-04 n/a to lifter p/n installed. Installed overhauled crankshaft p/n 653020, s/n F029402N. Ultrasonic inspection C/W per MSB96-10B, due at next overhaul or when removed. CMI 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 10-21-05. Instructions for Continued Airworthiness: Remove p/n 652833-OH counterweights at next engine overhaul and replace with new per TCM Continental M-O, Standard Practice Maintenance Manual, 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 TCM MSB99-6B. Engine assembled with overhauled CMI heavy style crankcase p/n 656935-12, s/n R14BA172. Installed new steel cylinders. Installed new RAM/FAA/PMA fuel nozzles p/n 2563-19A. TCM Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. Installed new RAM/FAA/PMA oil cooler p/n 2601-1, s/n 1751608. Engine accessories exchanged for overhauled or new units with exception of tach generator, vacuum pump, prop governor, and hydraulic pump which were not installed per this work order. Installed new Hartzell ALV 9610 alternator (weight 12.75 lbs.) This will require a weight and balance change. Overhauled Bendix magnetos installed. MSB94-8D on magneto timing procedure c/w per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Installed rocker arms p/n 1654-1 and -2. Starter adapter shaftgear and crankshaft gear inspection, AD 2007-05-15 c/w per TCM Service Bulletin MSB94-4H Part 5 per installation of Service Kit EQ6642 with 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 CMI 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. 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 3 hours. Engine run-in with Aeroshell 100 Mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Continental M-O, Standard Practice Maintenance Manual temp. storage up to 90 days. Pertinent details on file under Project No. 8555.

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

12-15-17 Hobbs 4171.8 TSMOH 0 LH N5874C

Annual Inspection Completed: Replace engine due to TBO with RAM GTSIO 520L s/n 272324-R. Pre-oiled with A/S 100 50 wt. mineral oil. Engine setup as per SID97-3G. Engine. ground run ok. All work performed IAW Cessna 421C maintenance schedule in service manual

I Certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

James M. Christensen III
AP 357385 IA

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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 & CERTIFICATION NO. OF PERSON PERFORMING WORK
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7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Aircraft HM: 4226.1
Date: 03/13/2018

Continental GTSIO-520-L S/N L-272324-R

On above referenced engine performed set-up of systems per service manual specs. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 4650.

[Signature]
Air Impressions, Inc.
CRS# AK6R541N

03-05-18 N5874C Hobbs 4220.5 RH

Check oil filter ok, change oil and filter, refill with Phillips XC 20w50 and Cam Guard. Aircraft ground run ok. All found to be satisfactory for service.

James M. Chrestensen III
AP 3507385

[Signature: James M. Chrestensen III]

Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 

Left Engine Maintenance Entry N5874C January 16, 2019
TCM GTSIO-520-L S/N: 604438 Hour: ~~3952.8~~ ^{4260.9} TTE: 3891.5 TSO: 89.1

Maintenance Actions

- 1) Performed 100 hr/annual inspection/maintenance using Cessna 421C Maintenance Manual Inspection Checklist.
- 2) Performed Differential Compression Check (MOT 47/80). Results as follows; Left engine: 1) 64/80, 2) 83/80, 3) 72/80, 4) 70/80, 5) 70/80, 6) 60/80.
- 3) Drained engine oil. Inspected oil filter, no metal noted. Installed a new CH48111-1 filter and saftied. Serviced with 13 qts Phillips X/C 20W50.
- 4) The left adapter was installed from overhaul at HM 4171.8. It was inspected in accordance with (h)(l)/MSB94-4G part 2, no defects noted.
- 1) Installed new turbo Wye Assembly pn 8294-15 sn 18862-0001 with 1 ea new 2750-2 and 2 ea new 2570-1 gaskets. Wye Assembly manufactured by Wall Colmonoy Corporation FAA PAH PQ0352SW on work order P119430 dated 08 Nov 2018.
- 2) Flushed left engine waste gate and waste gate controller and lubricated both with mouse milk.
- 3) Removed and cleaned engine air/oil separators.
- 4) Removed, cleaned and reinstalled fuel nozzles with new 640612 washers and 630979-9 o-rings.

Work accomplished by: Charles R. Hopper, David C. Entekin and Stephen Brent Duncan.

Airworthiness Directives

- 1) Complied with AD 2007-05-15 amendment 39-14976. Paragraph (f) needle bearing replacement has been previously complied with. The adapter was installed from overhaul at HM 4171.8. It was inspected in accordance with (h)(l)/MSB94-4G part 2, no defects noted. The next inspection under this part is due at HM 4360.9 or at annual, whichever occurs first. The next inspection under (j) (k) /MSB94-4G part 3, adapter removal and inspection, is due at HM 4571.8. Starter adapter shall be inspected in accordance paragraph (g) should engine experience rough running.

Performed ground run and operational checks. No defects noted at this time. This engine has been inspected in conjunction with an annual inspection and is approved for return to service.

David C. Entekin AP/IA 339856

[Signature: David C. Entekin]

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK
			(LH)	TOTALS brought forward from previous page Replaced oil & Filter
2-5-19			4326.1	Check oil filter OK. Refilled w/ Phillips 66 XC 20-50 oil (12 quarts). Filter: Champion 48-111-1. 1 bottle CAM Guard added. Joseph D. FABIAN ATP 2858458 <i>[Signature]</i> AIR CRAFT GND RUN, SATISFACTORY FOR Return to Service Joseph D. FABIAN ATP 2858458 <i>[Signature]</i>

Madison Air Center, 7450 Old Canton Rd., Madison, MS, 39110 (601) 853-9358 

Left Engine Maintenance Entry N5874C March 11, 2020
TCM GTSIO-520-L S/N: 60443J Hour: 4343.7 TTE: 4020.3 TSO: 251.9

Maintenance Actions

- 1) Performed 100 hr/annual inspection/maintenance using Cessna 421C Maintenance Manual Inspection Checklist.
- 2) Performed Differential Compression Check (MOT 47/80). Results as follows: Left engine: 1) 65/80, 2) 64/80, 3) 65/80, 4) 62/80, 5) 66/80, 6) 66/80.
- 3) Removed and inspected oil filter, no metal noted. Installed a new CH48111-1 filter and saftied.
- 4) Installed repaired alternator pn 649304 sn 008GA035 with new 5118335-10 noise filter.
- 5) Starter adapter was inspected in accordance with (h)(l)/MSB94-4G part 2, no defects noted. (note: starter adapter was installed during overhaul at HM 4171.8.)

Work accomplished by: Charles R. Hopper, David C. Entrekin and Lawrence D. Zavoina.

Airworthiness Directives

- 1) Complied with AD 2007-05-15 amendment 39-14976. Paragraph (f) needle bearing replacement has been previously complied with. The adapter was installed from overhaul at HM 4171.8. It was inspected in accordance with (h)(l)/MSB94-4G part 2, no defects noted. The next inspection under this part is due at HM 4443.7 or at annual, whichever occurs first. The next inspection under (j) (k) /MSB94-4G part 3, adapter removal and inspection, is due at HM 4671.8. Starter adapter shall be inspected in accordance paragraph (g) should engine experience rough running.

Performed ground run and operational checks. No defects noted at this time. This engine has been inspected in conjunction with an annual inspection and is approved for return to service.

[Signature]
Lawrence D. Zavoina
AP/IA 250965638



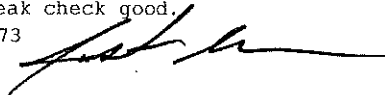
AIR IMPRESSIONS, INC.
PROFESSIONAL AIRCRAFT SERVICE
7929 Karl May Dr.
Waco, Texas 76708
CRS No. AK6R541N

Aircraft HM: 4366.3
Date: 07/16/2020

Continental GTSIO-520-L S/N R-604593

On above referenced engine, installed overhauled fuel pump, P/N 646201-3A6, S/N H189512BR. Performed set-up of systems per Continental and RAM specs. Engine ground run-up leak checked good and approved for return to service for maintenance performed. Pertinent details are on file under work order 5087.

[Signature]
Air Impressions, Inc.
CRS# AK6R541N

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK					
				TOTALS brought forward from previous page					
<div></div> <p>ENGINE #1 LOGBOOK ENTRY 11/20/2020 N5874C S/N: 421C0882 HOBBS: 4380.5</p> <ol style="list-style-type: none">1. Complied with AD 2001-01-16 (b), no discrepancies noted at this time2. Complied with oil and filter change IAW AMM 12-00. Cut open filter, inspected for metal, none found at this time. Serviced engine with 12 qts of Phillips XC 20w50 and installed new oil filter (PN AA48111). Leak check good. <p>Justin Nicholson A&P 4053173 </p>									

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