N521RM

1977 Cessna 421C

LH Engine Logbook SMOH | #2 of 2 2020 - 2024

MSN: 421C-0335



Prepared by the worldwide aviation specialists at RidgeAire, Inc.



ENGINE MAINTENANCE RECORDS

AIRCRAFT REGISTRATION NO. N. D. S. L. R. ENGINE POSITION LEFT

ENGINE SERIAL NO. 277155-R



ENGINE MAINTENANCE RECORDS

Log No. 2

AIRCRAFT REGISTRATION No	
Engine Manufacturer	
MODEL GTSTO-520-L	
SERIAL No. 277/55-R	
TIME BETWEEN OVERHAULS (TBO) Ho	URS
IF USED ON MULTI-ENGINE AIRCRAFT:	
RIGHTLEFT	

		PAGE N	10
ENGINE MODEL: GTSIO-520-L ENGINE S/N (L): 277155-R REG NO N521RM WORK ORDER: 7475-12-2019	DFW Aero Mechanix Inc. 16321 Addison Rd. Ste. 150 Addision, Texas 75001 Phone: 972-250-2403	DATE: 1/29/2020 A/C TSN: 8746.3 ENG TT (L): 5502.6 TSMOH (L): 650.7 HOBBS: 802 6	
Left Engine Entries	^		
Set up engine fuel	flow and perimeters in accordance with TCM97-3G		
Changed Oil & Filt	er, Serviced with 12 qt's of Phillips XC 20W-50		
	- / \ 		
DATE: 1/29/2020	SIGNED NA WORK	Work Order: 7475-12-2019	1
	Juan Ovjedo, A&F 1031449IA	Printed by EBis 3 (datcomedia.com)	
			'

LEFT ENGINE LOG ENTRY

J.R AVIATION SERVICES

15790 DOOLEY RD

ADDISON, TEXAS 75001

Aircraft Reg. N521RM

AFS/N: 421C0335

DATE: 06/10/2020

HOBBS: 0826.7

ENG Model GTSIO-520-L

ENG S/N 277155-R

TSMOH- 675.1

ETSN-5527.0

- Complied with 100 hour inspection on continental Engine Model GTSO-520-L S/N 277155-R IAW Title 14 CFR part 43, Appendix D.
- Complied with Airworthiness Directive research on Engine. Current through bi weekly 2020-12.
- Complied with AD 2000-01-16 Exhaust IAW part b.c.e by visually inspection pressure test and tail pipe inspection on left and right system
- Complied with AD 2007-01-15 visually inspect viscous damper and perform gear backlash measurement at 4 points .03 .04.03.02 as per MSB94-9G no discrepancies note due again in 100 hours part 3 due at 400 hrs
- Performed compression check 1.62/80 2.64/80 3. 70/80 4. 62/80 5.66/80 6.68/80
- Changed oil and filter serviced with Aero-shell 100 W plus 10 qts and CH48111-1.
- Cleaned, gapped and rotate spark plugs.
- Cleaned and resealed fuel injectors.
- Cleaned and lube left hand slip joints per Ram Aircraft Services instructions.
- Flushed left engine turbo charger per Ram instructions.
- Installed new engine vacuum pump pad mount garlock seal. Reinstall vacuum pump with new gasket P/N CR5062,
- Adjusted left engine oil pressure down.
- Set up left engine fuel flow IAW TCM SID97-3D Adjust full power manifold pressure and rpm adjust idle mixture and idle speed
 IAW Cessna 421C service manual.

I certify this aircraft, engine, propeller and/or component identified above was repaired and/or inspected in accordance with current F.A.A. regulations and was determined to be in airworthy condition and approved for Return to Service with respect to work performed.

Dated: June 10, 2020 Signed

_JUAN MORALES A&P 2840494

			PAGE NO.
DATE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	Description of work performed - SIGNATURE & CERTIFICATE NO. OF PERFSON PERFORMING WORK

Date	Total	Total	Tach or
	Time	Time	Recording
	In	Since	Meter
	Service	Overhaul	Time
9/25/2020	1388.2	694.1	845.7



Continental GTSIO-520-L Left S/N 277155-R

Above referenced engine removed cowling. Engine pump pressure, idle, mixture, fuel flow, max RPM, manifold pressure, and oil pressure adjusted per Cessna 421C Service Manual. Engine ground run power test good. Replaced #6 EGT probe. Removed, bench checked and reinstalled governor. Serviced engine with 1 qt. W100 Aeroshell oil. All engine systems checked for leaks. Cowling reinstalled. Engine is approved for return to service for work performed. Pertinent details on file under Project No. 9631.

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

	Total	Total	Tach or	
	Time	Time	Recording	
Date	In	Since	Meter	
1	Service	Overhaul	Time	
10/28/2020		695.2	847.1	



RAM Aircraft, Limited Partnership • Waco Regional Airport

10 Maco Tevas 76708 CRS VA1R551K

Continental GTSIO-520-L Left S/N 277155-R

Above referenced engine removed cowling and installed new cables, see airframe log for details. Installed GEM harness and prop sync harness. Installed new prop governor s/n 160038. Serviced engine with 11 qts W100 Plus Aeroshell oil and Champion CH48111-1 filter. All engine systems checked for leaks. Cowling reinstalled. Engine is approved for return to service for work performed. Perfinent details on file under Project No. 9658.

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7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N

Engine TT:	1412.4
Engine SMOH:	718.3
Prop SMOH:	1415.1
Hour Meter:	869.9
Date:	05/26/2021

Continental GTSIO-520-L S/N L-277155-R

On above referenced engine, removed all cowling for 100 Hour/Annual Inspection. Installed all new spark plugs. Drained oil, installed new oil filter and refilled engine with Aeroshell W100 plus oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner and bulkhead. Inspected all fuel, oil and hydraulic lines and fittings. Ran compressions and readings were: 1) 72/80, 2) 71/80, 3) 72/80, 4) 70/80, 5) 62/80, 6) 66/80. Secured air box to turbo. Installed new air box inlet duct. Saftied EGT probes. Saftied oil temp cannon plug. Saftied tach cannon plug. C/W A.D. 2000-01-16 per paragraphs (b), (c), (d), and (e) inspections. (Paragraph (b) compliance due in 50 hours or 30 days whichever is later.) A.D. 2020-16-11 is N/A per P/N's of cylinders. A.D.'s researched through bi-weekly 2021-10. For complete A.D. history and future compliance times see A.D. listing in log binder. Above work done in accordance with Continental and Cessna Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and after the properties of the properties of the properties. Pertinent details are on file under work order 5237.

Air Impressions, Inc.

Wa	29 Karl May Dr. aco, Texas 76708 S No. AK6R541N	I certify this <u>Engine</u> has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition. DATE 05/26/2021 HM 869.9 ENGINE SMOH 718.3 ENGINE TT 1412.4 WORK ORDER #5237 SIGNED AIR IMPRESSIONS, INC REPAIR STATION # AK6R541N	
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L # ENGINE LOGOCK ENTRY

D

Reg# N521RM AFTT: UNK Make Continental Utah Airways LLC. Hobbs: 877.5 3909 S. Airport Road Model GTSIO-520- NL Hanger S889 TSN: UNK Serial # 27715-R **Utah** Airways Ogden, Utah. 84405 TSMOH: UNK Position Left 888-663-9919 Pilot reported left Alternator inoperative, removed left alternator P/N ALV-9610 S/N H-S030070 and installed Hartzell engine technologies overhauled alternator P/N ALV-9610 S/N H-V051588 with new gasket 653981per continental standard practiced manual Section 10-4. Ground ran and ops checked good. Signature & Certificate # Russell R. Bargo

The Aircraft and /or components identified above were inspected and / or repaired in accordance with Title 14 Code of sederal Regulations, Part 48. And is approved for return to service in sespectatorshat work performed.

Aerospace Instrument Support, Inc. 1750 Westcourt Road LOG ID# 1306 18-June-2021 WO# 18247 HOBBS 896.3 N521RM S/N 421C0335 Cessna 421C Pg 1/1

**** ITEM # 18247-1 oil change ****
DISCREPANCY: Oil Change ACTION: Drained and Serviced LH and RH engine oil and installed new oil filters (P/N: CH48111-1).

 Aerospace Instrument Support, Inc.
 1750 Westcourt Road Denton, Texas 76207 XI7R807J

 LOG ID# 1339 13-August-2021 WO# 18462 HOBBS 925.2
 HOBBS 925.2

 N521RM S/N 421C0335 Cessna 421C
 Pg 1 / 1

**** ITEM # 18462-1 oil change ****
DISCREPANCY: Oil change Due
ACTION: Drained Oil from LH and RH Engine and Removed Oil Filters. Cut Oil Filter and Checked for Debris None Found. Replaced Oil Filters with PN: CH48111-1. Serviced with 13 Quarts per Engine of Aeroshell w100 Plus. IAW: Cessna 421 Service Manual Section 2

Signed A&P 3936528 IA Kevin Roberts Date

Aerospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 X17R907J LOG ID# 1365 04-October-2021 WO# 18650 N521RM S/N 421C0335 Cessna 421C

Pg 1/1

**** ITEM # 18650-1 oil change ****
ACTION: Drained oil from LH and RH engines. Removed oil filters. Cut oil filters to check for debris, none found. Replaced oil filters and part number CH48111-1, serviced 13 quarts Aeroshell 100w plus per engine. IAW Cessna 421 Service manual Section 2

HOBBS 951.0

Signed X17R8071 Brenda Leavell Date

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Aerospace Instrument Support, Inc. LOG ID# 1384 29-October-2021 V	1750 Westcourt Road Denton, Texas 76207 XI7R807J	
1521RM S/N 421C0335 Cessn	421C Hobbs 965,0	Pg 1 / 1
* ITEM # 18715-1 voltage issue CREPANCY: LH Alternator Goes Ou ION: Checked Alternator wiring placed with 28vDC Regulators. R laced RH Voltage Regulator with Maintenace Manual.		C Regulators. H-V070766, IAW: Cessna
Marintenace Manual.	2906+21	_
ned A&P 3936528 IA Kevin Robe		
	•	
Aerospace Instrument Support, Inc LOG ID# 1387 05-November-2021 N521RM S/N 421C0335 Cess		J Pg 1 / 1
*** ITEM # 18746-1 Replace Alto ISCREPANCY: Alternator Intermit ITION: Removed Alternator PN: Al os Check Good IAW: Cessna 421C	ernator **** ten LV-9610 SN: H-V051588 and replaced with PN: ALV-9610 :	SN: H-V102045.
15	5Nov21	1
gned A&P 3936528 IA Kevin Ro	perts Date	
erospace Instrument Support, Inc. DG ID# 1467 05-January-2022 V 21RM S/N 421C0335 Cessr		Pg 1 / 1
* ITEM # 18898-2 oil change le	ft side ****	
ION: Drained oil and removed fi ter and serviced with 13 quarts	lter. Cut filter and checked for debris, non found, i	Replaced
	05 Jan 2022	(
ned A&P 3936528 IA Kevin Robe	erts Date	\
		í
		_
rospace Instrument Support Inc	1750 Westcourt Road Denton, Texas 76207 XI7R807J	
OG ID# 1451 01-March-2022 W 521RM S/N 421C0335 Cessi	O# 19033	Pg 1 / 1
21KM 3/N 42100330 CESSI	4210	-
* ITEM # 19033-1 LH Engine CREPANCY: LH Engine Oil Cha ION: Drained Oil and Remove ter with PN: CH48111-1. Ser IC Service Manual Section 7	unge ed Oil Filter. Cut Filter and Checked for Debr viced with 13 Qts of Aeroshell W100 Plus. Leal	is, None Found. Replaced k Check Good. IAW: Cessna –
	3/1/2022	-
ned A&P 3936528 IA Kevin	Roberts Date	-
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erospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7 OG ID# 1453 01-March-2022 WO# 19033 521RM S/N 421C0335 Cessna 421C	R807J Pg 1 / 1
** ITEM # 19033-3 RH Strut Service **** SCREPANCY: RH Main Landing Gear Strut Low ITON: Serviced Strut with Nitrogen to Limits. IAW: Current Cessna 421C Service	Manual Section 5
* ITEM # 19033-4 LH Alternator Replacement **** CREPANCY: LH Alternator INOP ION: Removed Alternator M/N: ALV-9610 S/N: H-V102045, and installed Alternator V112879 IAW Maintenance Practices in current Cessna Model 421C Golden Eagle Ma 13 Sect 22	M/N: ALV-9610 S/N: intenance Manual,
IMar 2022	
ned A&P 3936528 IA Kevin Roberts Date	
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• • •	
24DM CAL 40400 10003 1091./	807J
rospace Instrument Support, Inc. 1750 Westcourt Road Denton, Texas 76207 XI7R0 G ID# 1516 22-July-2022 WO# 19266 HOBBS 1091.7 21RM S/N 421C0335 Cessna 421C	807J Pg 1 / 1
* TTFM # 10266 1	Pg 1 / 1
21RM S/N 421C0335 Cessna 421C * ITEM # 19266-1 annual inspection **** ION: Completed 100 Hour Engine Inspection. Drained Oil, Removed Filter. Cut and	Pg 1 / 1
TIEM # 19266-1 annual inspection **** INCOMPLETE OF STATE	Pg 1/1 Checked for Meroshell w100 rrent Continental
* ITEM # 19266-22 2000-01-16 exhaust system **** TON: Compled with AD 2000-01-16 by Visual Inspection of Exhaust System. Next Dute for the first # 19266-28 LH engine Constants # 19266-2	Pg 1/1 Checked for Meroshell w100 rrent Continental He in 100 Hours
* ITEM # 19266-1 annual inspection **** ITEM # 19266-1 annual inspection *** ITEM # 19266-1 annual inspection brained oil, Removed Filter, Cut and ris, None Found. Replaced Filter with PN: CH48111-1 Serviced with 13 Quarts of A sc. Compression Results: #1: 76, #2: 74, #3: 76, #4: 75, #5: 72, #6: 76. IAW: Cut ITEM # 19266-22 2000-01-16 exhaust system **** ITEM # 19266-28 LM engine cultiples that	Pg 1/1 Checked for Meroshell w100 rrent Continental He in 100 Hours

wo: WO_23

Engine L · page 1 of 1

WG\$5: [13], TGENERATION JETS · 205 West Louisiana Street suite 201 · McKinney, TX 75070 · 8175643267

N521RM CONT MOTOR, GTSI0-520-F-K, S/N: ENGINE-L SN TBD October 13, 2022

Removed and replaced oil filter and serviced oil IAW Cessna 421-C service manual. Engine run up and leak check completed, no discrepancies noted. PN 48111-1, Aeroshell 100Wplus Installed (10) P/N AeroShell W100 Plus · OIL, Installed P/N AA48111 · Oil Filter.

With respect to the work performed, this engine I is approved for return to service. Details of work performed are on file with GENERATION JETS under work order: WO_23.

Bryan Waldo A&P 3730638

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	P	AGE	NO	 	
					- 1
					- 1
					- 1
					- 1
MING	WORK				

DATE TOTAL TACH OR
TIME RECORDING
SINCE METER
OVERHAUL TIME

DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERFSON PERFORMING WOR



7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N Engine TT: 1707.5
Engine SMOH: 1013.4 (3/12)
Prop SMOH: 1710.2 (6/06)
Hour Meter: 1165.0
Date: 10/02/2023

Continental GTSIO-520-L S/N L-277155-R

On above referenced engine, removed all cowling for 100 Hour/Annual Inspection. Cleaned and gapped spark plugs. Drained oil, installed new oil filter and refilled engine with Aeroshell W100 plus oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner and bulkhead. Inspected all fuel, oil and hydraulic lines and fittings. Ran compressions and readings were: 1) 72/80, 2) 60/80, 3) 74/80, 4) 72/80, 5) 65/80, 6) Replaced. Installed overhauled cylinder P/N CL74.0-231-OH, S/N 81959-14, in #6 position. Installed all new lifters. Repaired lower #6 spark plug lead. C/W A.D. 84-26-02 per installation of new induction air filter. (Next due at 1665.0 HM.) C/W A.D. 2007-05-15 per para (2) 100-hour and readings were: 1).048, 2).046, 3).048, 4).050. (Next due at 1265.0 HM.) C/W para (3) 400-hour starter adapter and gear inspections and found good. (Next due at 1565.0 HM.) C/W A.D. 2000-01-16 per paragraphs (b), (c), (d), and (e) inspections. (Paragraph (b) next due at 1215.0 HM.) Installed new tailpipe, P/N A9910300-15 and replaced bypass elbow, P/N 9910300-3. (See tags.) Engine set-up per Continental service manual and RAM Specs. A.D.'s researched through bi-weekly 2023-18. For complete A.D. history and future compliance times see A.D. listing in log binder. Above work done in accordance with Continental and Cessna Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 5804.

Air Impressions Inc. CRS# AK6R541N

REPAIR STATION # AK6R541N	SIGNEDAIR IMPRESSIONS, INC		7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N	I certify this Engine has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition. DATE 10/02/2023 HM 1165.0 ENGINE SMOH 1013.4 (3/12) ENGINE TT 1707.5 WORK ORDER #5804 SIGNED AIR IMPRESSIONS, INC REPAIR STATION # AK6R541N
	REPAIR STATION # AK6R541N			
SIGNEDAIR IMPRESSIONS, INC			_	ENGINE TT 1707 5
ENGINE TT 1707.5 WORK ORDER #5804 SIGNED AIR IMPRESSIONS, INC	ENGINE TT 1707.5		_	DATE 10/02/2023 HM 1165.0
DATE_10/02/2023 HM 1165.0 ENGINE SMOH	DATE_10/02/2023 HM 1165.0 ENGINE SMOH_ 1013.4 (3/12) ENGINE TT_ 1707.5			to be in an airworthy condition.
ENGINE TT	to be in an airworthy condition. DATE 10/02/2023 HM 1165.0 ENGINE SMOH 1013.4 (3/12) ENGINE TT 1707.5		Waco, Texas 76708	inspected in accordance with a 100 HP
Waco, Texas 76708 CRS No. AK6R541N Inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition. DATE 10/02/2023 HM 1165.0 ENGINE SMOH 1013.4 (3/12) ENGINE TT 1707.5 WORK ORDER #5804 SIGNED AIR IMPRESSIONS, INC	Waco, Texas 76708 CRS No. AK6R541N Inspection and has been determined to be in an airworthy condition. DATE_10/02/2023 HM 1165.0 ENGINE SMOH			-
7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N I certify this <u>Engine</u> has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition. DATE 10/02/2023 HM 1165.0 ENGINE SMOH 1013.4 (3/12) ENGINE TT 1707.5 WORK ORDER #5804 SIGNED AIR IMPRESSIONS, INC	7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N I certify this <u>Engine</u> has been inspected in accordance with a 100 HR. Inspection and has been determined to be in an airworthy condition. DATE 10/02/2023 HM 1165.0 ENGINE SMOH 1013.4 (3/12) ENGINE TT 1707.5			
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