



RIGHT

ENGINE MAINTENANCE RECORDS

Aircraft Registration

N1543G

Engine Position

Right

Engine Serial No.

600487



ENGINE MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N1543G

Engine Manufacturer TCM

Model GTSIO-520-H

Serial No. 600487

Date installed on aircraft _____

Time Between Overhauls (TBO) 1600 Hours

If used on multi-engine aircraft:

☒ Right ☐ Left



TCM GTSIO-520-H (Right Engine) S/N 600487

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

				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
7/24/04	1160.0	00.0	^{RAB} 629.7	Installed this engine on Cessna 421B S/N 421B-0639 in Right position. using new eng. load mounts & bolts. All hoses replaced with new. All engine accessories including turbo charger overhauled. Eng. final set up to be performed by T&S Aviation technicians. RW Houch A&P 2071921
8.24-04	1161.3	^{RAB} 1.6	631.0	Annual Inspection accomplished this date. Run-up & flight test accomplished. Cyl. Compressions check OK. I certify that this <u>Engine</u> has been inspected in accordance with an <u>Annual</u> inspection and was determined to be in an airworthy condition. All A. D.'s up to and including <u>2004-17</u> have been complied with <u>RW Houch A&P 2071921 IA</u>

T&S
AVIATION, INC.
P.O. Box 840
Olathe, Ohio 43012

**N1543G (Right Engine Logs)
TCM GTSIO 520-H S/N 600487**

Inspected engine as required by FAR 91.409 per inspection meeting requirements of FAR 43 App. D.

Changed oil and filter (Aeroshell 100W)

Compression #1 72/80 #2 76/80 #3 76/80 #4 76/80 #5 80/80 #6 80/80

Current Compression and bore-scope Meets Requir. of TCM SB03-3 Diff. Pressure Test 3/28/03. (Master Orifice reading Minimum 46 PSI) except #2.

Replaced right side throttle cable with FAA/PMA RAM unit #1220-54.

Cleaned and rotated spark plugs. Cleaned and resealed injector nozzles.

CW AD72-14-08 R1 Effective Date 07/14/72 Flexible hose assemblies. Hoses changed at engine change meeting TSO C53a. Per SAIB #CE-03-41 no further inspection is required.

AD84-26-02 Effective Date - 01/29/85 Paper induction air filters CW by replacement of left/right engine filter at 7/04 @ 629.7 due again in (500)

RAM Aircraft Corp. MT-2 9/15/95 Air Filter change each 300 hr. or 12 months.

DATE 5/10/2005

HOBBS 637.2

Eng TT 1167.5

Prop TSMOVH 7.8

"I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."

ANTHONY R. SAXTON

AP2705607671A

Anthony R. Saxton

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE 2005	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
11/3/05	1196.0	45.9 RAB 37.1	675.3	CHANGED OIL & FILTER - SENT OIL TO LAB INSTALLED AGCO SHEL 80/90 OIL CA-48111-1 FILTER - GROUND RUN TO CHECK FOR LEAKS U.S. Machine A/P489485/05
7/1/06	1218.1	68.0 RAB 37.1	697.4	REMOVED ALL COWLING FOR ANNUAL INSPECTION REMOVED & CLEANED SPARK PLUGS. CHECKED Comp. ① ② ③ ④ ⑤ ⑥ 74 79 75 74 75 77 80 80 80 80 80 80 OIL NOT CHANGED AT THIS TIME. ALL AD'S THAN 2006-13 C/W.
				This ENGINE was inspected in accordance with an Annual inspection and is in airworthy condition U.S. Machine A/P489485/05
				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
1-19-07	1218.1	^{RAB} 50.1	697.4	TOTALS brought forward from previous page
1-19-07	1300.3	^{RAB} 87.2	716.6	CHANGED OIL & FILTER CUT FILTERS OPEN CHECKED FOR ANY ABNORMAL CONTENTS NONE FOUND INSTALLED NEW CH-48111-1 FILTER & PHILLIPS 20-50 OIL. U.S. Moshier A/P 489485105
5/03/07			730.6	REMOVED HYDRAULIC PUMP FROM ENGINE SENT TO QUALITY AIRCRAFT ACCESSORIES INC. FOR OVERHAUL. REPLACED PUMP & RAN ENGINE. U.S. Moshier A/P 489485105 I/A.
8/22/07	1325.3	112.2	741.6	INSPECTED ENGINE AS REQUIRED BY FAR 91.409 per INSPECTION meeting requirements of FAR 43 App(D) using 421B checklist. changed oil & Filter (Phillips ^{12 QTS} 20 W 50) compression ck AS Follows 1) $\frac{78}{80}$ 2) $\frac{76}{80}$ 3) $\frac{76}{80}$ 4) $\frac{77}{80}$ 5) $\frac{74}{80}$ 6) $\frac{74}{80}$. Installed New Spark Plugs RHB 32E on All cylinders. cleaned injector nozzles. All AD's thru 07-05-15 C/W. I certify that this Engine has BEEN Inspected in Accordance with AN 100 hr Inspection AND was Determined to Be in Airworthy condition. Robert Bobo A/P 2961799 END
8/22/07	1325.3	112.2	741.6	cut oil Filter, Inspected For metal, None Found. Robert Bobo AP 2961799 — END
9-1-07	1325.3	112.2	741.6	I certify that this Engine has been inspected in accordance with annual inspections and was found to be in airworthy condition. SUB-TOTALS this page M. Clonnie AP 3090806 I/A TOTALS—Carry forward to next page
			741.6	

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
1/3/08			761.6	Removed McCauley ^{ON} De Feathering Accumulator Mod# D20230-A, Placarded Instrument Panel AS Follows, DeFeathering Accumulators ON Left And Right Engine Removed And INOP. For Weight & Balance See Airframe log. ————— END ————— ————— Robert Bdo A/P 2961799 —————
2/6/08			761.6	REMOVED PROPELLER GOVERNOR AND REPLACED WITH OVERHAULED UNIT P/N DCFUS29009-C/H6 OH. TESTED UNIT NO LEAKS. Vb. Moshin A/P 484485105

DATE 10/24/2008 N1543G Right Engine
TTAF: 2475 A/C HOBBS: 762.6 TTE: 1346.3 SMOH: 133.2
TTP: Left and Right 133.2

Completed inspection using FAR 43 App. D and checklists as a guide.
Drained oil, sample taken. Checked filter for contamination, none found.
Serviced with eleven quarts of Phillips 20/50 oil and new CH48111-1
filter. Checked intake and exhaust systems. Checked all engine accessories
for security and operation. Checked motor mounts and shocks. Checked all
fuel and oil lines. Checked compressions as follows: #1 72/80 #2 75/80 #3
72/80 #4 73/80 #5 76/80 #6 76/80. Cleaned gapped and tested all
sparkplugs. Inspected propeller. Removed minor nicks. Checked ADs for
compliance through 2008-21. See permanent AD compliance records in
A/C logs dated 10/23/2008.

I CERTIFY THIS ENGINE AND PROPELLER HAVE BEEN
INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION
AND WAS FOUND TO BE IN AIRWORTHY CONDITION. "
MICHAEL E. OCONNER AP 3090806 IA

M. Oconner

SUB-TOTALS this page

TOTALS—Carry forward to next page

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				TOTALS brought forward from previous page

DATE 11/20/2009 N1543G Right Engine
 TTAF: 2527.5 A/C HOBBS: 815.1 TTE: 1398.8 SMOH: 185.7
 Completed inspection using FAR 43 App. D and checklists as a guide. Drained oil, sample taken. Checked filter for contamination, none found. Serviced with eleven quarts of Phillips 20/50 oil and new CH48111-1 filter. Checked intake and exhaust systems. Checked all engine accessories for security and operation. Checked motor mounts and shocks. Checked all fuel and oil lines. Checked waste gate operation OK. Checked compressions as follows: #1 72/80 #2 74/80 #3 70/80 #4 75/80 #5 70/80 #6 72/80. Master orifice = 45. Cleaned gapped and tested all sparkplugs. Inspected propeller. Removed minor nicks. OPS ran L&R engines all systems normal. Checked ADs for compliance through 2009-21. See permanent AD compliance records in A/C logs dated 11/20/2009.

I CERTIFY THIS ENGINE AND PROPELLER HAVE BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. "
 MICHAEL E. O'CONNOR AP 3090806 IA *M. O'Connor*

AIRCRAFT MAINTENANCE SERVICE LLC
3430 Old Columbus Rd. HANGAR "J"
Carroll, Ohio 43112 740-808-0651 RIGHT N1543G

Date: 7/1/2011 Hobbs: 0859 TTE: 1442.8 SMOH: 229.7
 TTP: 229.7 SMP: 229.7

Completed inspection using FAR 43 Appendix d and Aircraft Maintenance Service checklists as a guide. Drained oil. Checked filters for contamination, none found. Serviced with eleven quarts of Phillips 20/50 oil and new CH48111-1 filter. Engine cylinder compression was as follows: Master orifice = 43 psi: #1 71/80, #2 66/80, #3 65/80, #4 68/80, #5 68/80 and #6 70/80. Checked ignition timing. Checked engine controls for security and travel. Inspected motor mounts and shocks. Inspected intake and exhaust systems, including turbocharger components. Checked all engine accessories for security and operation. Cleaned, gapped and tested all spark plugs. Replaced all M674 gaskets. Cleaned engine compartment. Ops ran engine. No oil leaks seen. All systems were normal. All AD's have been checked for compliance through 2011-12. See, revised, permanent airworthiness directive compliance records dated 2/14/2011.

I certify this engine and propeller have been inspected in accordance with an ANNUAL inspection and was found to be in airworthy condition.

Michael E. O'Connor AP 3090806 IA *M. O'Connor*

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



N1543G (Right Engine Logs)

TCM GTSIO520H s/n 600487

Inspected engine as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (2)(c) and FAR 43 App. D. Performed post operational checks per FAR43.15 (c)

Changed oil and filter. (Phillips X/C 20W/50) Compression #1 77/80 #2 74/80 #3 79/80 #4 78/80 #5 76/80 #6 77/80

Current Compression Meets Requirements of TCM SB84-15 Cylinder Leak Check dated 12/21/84. (Master Orifice reading Minimum 47 PSI)

Cleaned and rotated spark plugs. . . Cleaned and resealed fuel injector nozzles.

Replaced innercooler O-ring and turbo-controller gasket.

Reset left/right mag timing to specs.

CW AD2007-05-15 eff. 4/16/2007(Supersedes 2005-20-04) (GTSIO520 only) (TCM MSB94-4F) Starter adapter reoccurring inspection

(h) 100 hr/ or annual Starter drive backlash inspection per MSB94-4F part 2 (max .06") (measured .035, .03, .03, .05)

DATE 8/28/2012

HOBBS 895.4

Engine Total time 1425.7

Engine TSMOVH 265.7

DATE 8/28/2012 HOBBS 893.4 Engine Total time 1425.7 Engine Total time 1425.7
 "I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION
 AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."

Stephen Fortner AP27977031A

AIRCRAFT MAINTENANCE SERVICE LLC

3430 Old Columbus Rd. HANGAR "J "

Carroll, Ohio 43112 740-808-0651

N1543G RIGHT ENGINE & PROP

Date: 9/18/2013 Hobbs: 907.2 TTE: 1481 SMOH: 277.9

TTP: 277.9 SMP: 277.9

Completed inspection using FAR 43 Appendix d and Aircraft Maintenance Service checklists as a guide. Drained oil. Checked fuel and oil filters for contamination. None found. Installed new AA48111-1 filter and filled with twelve quarts of Phillips XC 20/50 oil. Cleaned gapped and tested all sparkplugs. Installed all new M674 gaskets. Checked ignition timing. Lubed and checked engine controls for security and travel. Inspected motor mounts and shock mounts. Inspected intake and exhaust systems. Checked all engine accessories for security and operation. Master orface = 43: Checked engine compressions : #1 70/80, #2 74/80, #3 72/80, #4 73/80, #5 71/80 and #6 72/80. Cleaned engine and engine compartment.. Ops ran engine. Adjusted idle speed. No oil leaks seen. All systems were normal. All AD's have been checked for compliance through 2013-18. See revised, permanent airworthiness directive compliance records dated 9/13/2013. Replaced tach generator with overhauled p/n MS25038-2 s/n C-131. See form 227 dated Aug/27/2013. Balanced propeller using Dynavibe system to 0.01 IPS.

I certify this engine and propeller have been inspected in accordance with an ANNUAL inspection and was found to be in airworthy condition. *[Signature]*

Michael E. OConner AP 3090806 IA

				SUB-TOTALS this page
				TOTALS—Carry forward to next page

Aircraft Maintenance Service LLC

3430 Old Columbus Rd

Hangar R2

Carroll, Ohio 43112

10/24/2014

RIGHT ENGINE N12345

Hobbs: 925.1 TTAF: 2637.1 TTE: 1508.9 SMOH: 295.8

TTP: 295.7

SMP: 295.7

Performed annual inspection I/A/W FAR 43 Appendix D and Aircraft Maintenance Service check lists. Ops ran engine. All systems were normal. Drained oil. Checked oil filters for contamination. None found. Serviced with twelve quarts of Phillips 20W50 oil and new CH48111 oil filter. Inspected all accessories for security and operation. Cleaned, gapped and tested all sparkplugs. Checked ignition system and timing. Inspected intake, fuel, turbocharger and exhaust systems. Checked engine and propeller controls for security and proper travel. Inspected all fuel, oil and hydraulic lines. Inspected engine shock mounts and motor mounts. Inspected propeller and spinner. Master orifice = 44/80. Checked cylinder compression: #1 72/80, #2 75/80, #3 71/80, #4 77/80, #5 70/80 and #6 76/80. Owner operator OPS ran engines, all systems were normal. All AD's have been checked for compliance through 2014-20. See permanent updated AD records dated 10/24/2014.

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

Michael E. OConner AP 3090806 IA

M. OConner



N1543G (Right Engine Logs)

CMI GTSIO-520H

S/N 600487

Inspected engine per 100 hr. checklist meeting requirements of FAR 43 App. D. in conjunction with Annual Inspection on Cessna 421B, s/n 421B0639 this date. Performed post inspection operational checks per FAR43.15 (c)

Changed oil and filter service with (Phillips 20W50 oil)

Compression #1 70/80 #2 74/80 #3 78/80 #4 76/80 #5 70/80 #6 78/80 Borescope insp. completed.

Current Compression and bore-scope Meets Require. of TCM SB03-3 Diff. Pressure Test 3/28/03. (Master Orifice reading Minimum 46 PSI)

Removed and inspected lifters and cam or #5 and #6 cylinders OK. Cleaned and gapped spark plugs. Checked mag timing

Cleaned and resealed fuel injector nozzles as required. Replaced various Mil H6000 hose for vacuum and deice pressure in engine compartment.

CW AD2007-05-15 eff. 4/16/2007(Supersedes 2005-20-04) (GTSIO520 only) (TCM MSB94-4F) Starter adapter reoccurring inspection

Replacement of needle bearings (found bushing installed no further action.)

(g) Unscheduled inspection due following any engine rough-Running

(h) 100 hr/ or annual Starter drive backlash inspection per MSB94-4F part 2 (max .06") Completed OK (due again in 100 hr. at 1036.5)

(j) 400 hr. Removal inspection per MSB94-4 part 3 Removed and inspected starter drive and engine gears OK. Reinstalled per Continental

MM Due again in 400 hr. at Hobbs 1336.4

CW AD84-26-02 Effective Date - 01/29/85 Paper induction air filters CW by replacement of left/right engine filter due again in (500 hr.)

RAM Aircraft Corp. MT-2 9/15/95 Air Filter change each 300 hr. or 12 months.

DATE 2/19/2016 HOBBS 936.5 AIRCRAFT TOTAL TIME 2548.9 Engine TT 1467.2 Engine TSMOVH 307.2

"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 Hr. INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."

Anthony R. Saxton AP32537461A

Anthony R. Saxton



N1543G (Right Engine Logs)

CMI GTSIO-520H

S/N 600487

Changed oil and filter service with (Phillips 20W50 oil) Inspected filter and took oil samples.

Removed failed air conditioner hydraulic pump from accessory drive and installed Continental close out plate.

DATE 7/14/2016 HOBBS 963.4 AIRCRAFT TOTAL TIME 2575.8 Engine TT 1494.1 Engine TSMOVH 334.1

Anthony R. Saxton AP32537461A

Anthony R. Saxton

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

**N1543G (Right Engine Logs)****CMI GTSIO-520H****S/N 600487**

Inspected engine per 100 hr. checklist meeting requirements of FAR 43 App. D. in conjunction with Annual Inspection on Cessna 421B, s/n 421B0639 this date. Performed post inspection operational checks per FAR43.15 (c)

Changed oil and filter service with (Phillips 20W50 oil)

Compression #1 72/80 #2 73/80 #3 75/80 #4 76/80 #5 73/80 #6 72/80 Borescope insp. completed.

Current Compression and bore-scope Meets Require. of **TCM SB03-3** Diff. Pressure Test 3/28/03. (Master Orifice reading Minimum 46 PSI)

Cleaned and resealed fuel injector nozzles Replaced cracked #1 fuel injector line with RAM Aircraft FAA/PMA #2180-8. . Cleaned and gapped spark plugs. Replaced left mag gasket. **CW Magneto timing per Continental M-O manual section 6-4.9.1** (superseded MSB94-8D) Magneto to Engine Timing (Continental)

CW AD2007-05-15 eff. 4/16/2007(Supersedes 2005-20-04) (GTSIO520 only) (TCM MSB94-4F) Starter adapter reoccurring inspection

(g) **Unscheduled Inspection** due following any engine rough-Running

CW (h) 100 hr/ or annual Starter drive backlash inspection per MSB94-4F part 2 (max .06") (035/.04/.038.037) (due again in 100 hr. at 1083.1)

(j) 400 hr. Removal inspection per MSB94-4 part 3 Due at Hobbs 1029.4

AD2016-16-12 eff. Date 9/15/2016 ECi cylinder removal. NA affected cylinders not installed.

DATE 9/1/2017 **HOBBS 983.1/ AIRCRAFT TOTAL TIME 2595.5**

Engine TT1513.8 Engine TSMOVH 353.8

"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 Hr. INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."

Anthony R. Saxton AP32537461A

MODEL	ENGINE S/N	A/C REG.	W.O. #	-	HR MTR	DATE:
GTSIO520-H	600487	N1543G	LUM8534	-	1050.9	1/16/18



**LUMANAIR
AVIATION
SERVICES**

ENGINE LOG ENTRY

Lumanair, Inc. (KARR)
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866
F: (630) 466-4987

MAINTENANCE ACTIONS PERFORMED:

- Changed oil and filter. Filter opened and found clean. Serviced with Phillips 20W50 and Camgaurd.
- C/W AD 2000-01-16 per para (b) visual inspection of the exhaust system, no damage found. Replaced the exhaust support hanger bushing at cylinder #5. Re-inspect per (b) by 1100.9 hobbs time.
- Replaced cylinder #4 fuel injection line from the flow divider to the nozzle with a factory new line part no# 636114.
- Replaced cylinder #1 intake gasket.

I certify this engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

Lumanair, Inc.
CRS-CGFR811C

Name: Scott M Luman

Page 1 of 1

NO FURTHER

NO FURTHER

ENTRIES THIS

ENTRIES THIS

PAGE

SUB-TOTALS this page

TOTALS—Carry forward to next page

PAGE

MODEL	ENGINE S/N	A/C REG.	W.O. #	SMOH	-	HOBBS	DATE:
GTSIO-520-H	600487	N1543G	LUM9171	389.5	-	1089.2	9/15/20

DA



**LUMANAIR
AVIATION
SERVICES**

RH ENGINE LOG ENTRY

Lumanair, Inc. (KARR)
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866
F: (630) 466-4987

ge No. _____

ORK

Engine Differential Compression Check					
No 1	No 2	No 3	No 4	No 5	No 6
72/80	74/80	71/80	75/80	73/80	74/80

INSPECTIONS PERFORMED:

- Annual Inspection

MAINTENANCE ACTIONS PERFORMED:

- Changed the oil and filter. Inspected the old filter, no defects found. Serviced the engine with 11 qts of Phillips 20W-50 and a CH48111-1 filter. Leak check ok.
- Removed and replaced cyl. #5 oil return line.
- Replaced the engine breather hose.
- Removed and replaced the gasket between the oil filter base and the case.
- Adjusted the upper deck fuel pressure line to clear contact with the engine and baffling.
- Installed new gaskets on cvl. #2, 5, & 6 induction tubes.
- Checked tightness of all fittings and lines in the engine compartment.
- Removed the mags for a 500 hour inspection. Reinstalled the mags with new gaskets, and timed them to the engine. Run up, mag check ok.
- Removed and replaced the fuel line that runs along the turbo, due to chafing.

I certify this engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

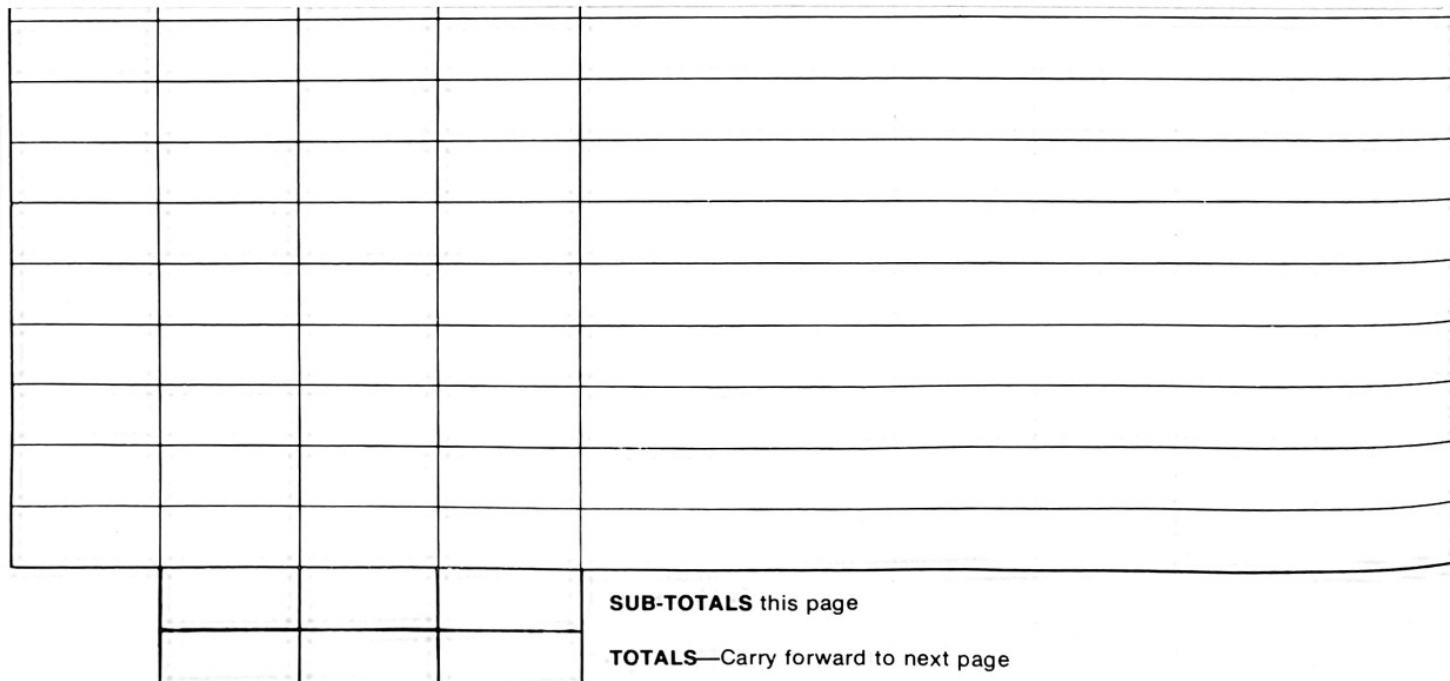
Lumanair, Inc.
CGFR811C

Name: _____

Page 1 of 1

SUB-TOTALS this page

TOTALS—Carry forward to next page



DATE	IN SERVICE	SINCE OVERHAUL	METER TIME	SIGNATURE
TOTALS brought forward from previous page				



N1543G (Right Engine Logs)

CMI GTSIO-520H

S/N 600487

Inspected engine per 100 hr. checklist meeting requirements of FAR 43 App. D. in conjunction with Annual Inspection on Cessna 421B, s/n 421B0639 this date. Performed post inspection operational checks per FAR43.15 (c)

Changed oil and filter service with (Phillips 20W50 oil)

Compression #1 72/80 #2 73/80 #3 75/80 #4 76/80 #5 73/80 #6 72/80 Borescope insp. completed.

Current Compression and bore-scope Meets Require. of TCM SB03-3 Diff. Pressure Test 3/28/03. (Master Orifice reading Minimum 46 PSI)

Cleaned and resealed fuel injector nozzles Replaced cracked #1 fuel injector line with RAM Aircraft FAA/PMA #2180-8. . Cleaned and gapped spark plugs. Replaced left mag gasket. CW Magneto timing per Continental M-O manual section 6-4.9.1 (superseded MSB94-8D) Magneto to Engine Timing (Continental)

CW AD2007-05-15 eff. 4/16/2007(Supersedes 2005-20-04) (GTSIO520 only) (TCM MSB94-4F) Starter adapter reoccurring inspection

(g) Unscheduled Inspection due following any engine rough-Running

CW (h) 100 hr/ or annual Starter drive backlash inspection per MSB94-4F part 2 (max .06") (035/.04/.038.037) (due again in 100 hr. at 1083.1)

(j) 400 hr. Removal inspection per MSB94-4 part 3 Due at Hobbs 1029.4

AD2016-16-12 eff. Date 9/15/2016 ECi cylinder removal. NA affected cylinders not installed.

DATE 9/1/2017 HOBBS 983.1/ AIRCRAFT TOTAL TIME 2595.5

Engine TT1513.8 Engine TSMOVH 353.8

"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 Hr. INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."

Anthony R. Saxton AP32537461A

MODEL	ENGINE S/N	A/C REG.	W.O. #	-	HR MTR	DATE:
GTSIO520-H	600487	N1543G	LUM8534	-	1050.9	1/16/18



LUMANAIR
AVIATION
SERVICES

ENGINE LOG ENTRY

Lumanair, Inc. (KARR)
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866
F: (630) 466-4987

MAINTENANCE ACTIONS PERFORMED:

- Changed oil and filter. Filter opened and found clean. Serviced with Phillips 20W50 and Camgaud.
- C/W AD 2000-01-16 per para (b) visual inspection of the exhaust system, no damage found. Replaced the exhaust support hanger bushing at cylinder #5. Re-inspect per (b) by 1100.9 hobbs time.
- Replaced cylinder #4 fuel injection line from the flow divider to the nozzle with a factory new line part no# 636114.
- Replaced cylinder #1 intake gasket.

I certify this engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

Lumanair, Inc.
CRS-CGFR811C

Name: Scott M Luman

Page 1 of 1

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ENTRIES THIS

ENTRIES THIS

PAGE

SUB-TOTALS this page

TOTALS—Carry forward to next page

PAGE

MODEL	ENGINE S/N	A/C REG.	W.O. #	SMOH	-	HOBBS	DATE:
GTSIO-520-H	600487	N1543G	LUM9171	389.5	-	1089.2	9/15/20

DATE



**LUMANAIR
AVIATION
SERVICES**

RH ENGINE LOG ENTRY

Lumanair, Inc. (KARR)
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866
F: (630) 466-4987

Engine Differential Compression Check					
No 1	No 2	No 3	No 4	No 5	No 6
72/80	74/80	71/80	75/80	73/80	74/80

INSPECTIONS PERFORMED:

- Annual Inspection
- C/W AD 2000-01-16 Exhaust inspection IAW par. (B,C,D, & E) no defects found.
- C/W AD 2007-05-15 Starter adapters' backlash found within tolerance.

MAINTENANCE ACTIONS PERFORMED:

- Changed the oil and filter. Inspected the old filter, no defects found. Serviced the engine with 11 qts of Phillips 20W-50 and a CH48111-1 filter. Leak check ok.
- Removed and replaced cyl. #5 oil return line.
- Replaced the engine breather hose.
- Removed and replaced the gasket between the oil filter base and the case.

- Adjusted the upper deck fuel pressure line to clear contact with the engine and baffling.
- Installed new gaskets on cyl. #2, 5, & 6 induction tubes.
- Checked tightness of all fittings and lines in the engine compartment.
- Removed the mags for a 500 hour inspection. Reinstalled the mags with new gaskets, and timed them to the engine. Run up, mag check ok.
- Removed and replaced the fuel line that runs along the turbo, due to chafing.

I certify this engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

Lumanair, Inc.
CGFR811C

Name:

Page 1 of 1

MODEL	ENGINE S/N	A/C REG.	W.O. #	SMOH	-	HOBBS	DATE:
GTSIO-520-H	600487	N1543G	LUM9528	398.0	-	1097.7	7/30/21



**LUMANAIR
AVIATION
SERVICES**

RH ENGINE LOG ENTRY

Lumanair, Inc. (KARR)
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866
F: (630) 466-4987

MAINTENANCE ACTIONS PERFORMED:

- Removed the engine driven air conditioning hydraulic pump P#PF271325BCE. Installed the Cessna 421C hydraulic pump adapter P#5154552-1. Installed a new hydraulic pump overhauled by Aircraft Accessories of Oklahoma P#24343RAB. Installation was performed in reference to the Cessna 421C Maintenance manual, Cessna 421B maintenance manual, and oversight by RAM engine technicians. 337 is filed to FSDO this date.

I certify this engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

Lumanair, Inc.
CGFR811C

Name:

Page 1 of 1

SUB-TOTALS this page

TOTALS—Carry forward to next page

MODEL	ENGINE S/N	A/C REG.	W.O. #	SMOH	-	HOBBS	DATE:
GTSIO-520-H	600487	N1543G	LUM9608	406.0	-	1105.7	10/20/21



**LUMANAIR
AVIATION
SERVICES**

RH ENGINE LOG ENTRY

Lumanair, Inc. (KARR)
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866
F: (630) 466-4987

Engine Differential Compression Check					
No 1	No 2	No 3	No 4	No 5	No 6
74/80	73/80	74/80	74/80	73/80	75/80

INSPECTIONS PERFORMED:

Annual Inspection

- AD 2020-16-11 cross flow cylinder assy integrity N/A by engine O/H date.
- C/W AD 2000-01-16 Exhaust inspection IAW par. (B,C,D, & E) no defects found.
- AD 2007-05-15 Starter adapters' backlash inspection not due until 2898.6 A/C TT

MAINTENANCE ACTIONS PERFORMED:

- Changed the oil and filter. Inspected the old filter, no defects found. Serviced the engine with 11 qts of Phillips 20W-50, camguard and a CH48111-1 filter. Leak check ok.
- Checked timing of the magnetos to engine, found ok.
- Cleaned, gapped and inspected spark plugs, found ok. Installed with new copper gaskets P/N M-674. *pg 1 of 2*

MODEL	ENGINE S/N	A/C REG.	W.O. #	SMOH	-	HOBBS	DATE:
GTSIO-520-H	600487	N1543G	LUM9608	406.0	-	1105.7	10/20/21

I certify this engine is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

Lumanair, Inc.
CGF811C

Name:

Page *2* of *2*

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE

MODEL	ENGINE S/N	A/C REG.	W.O. #	TSMOH	-	HOBBS	DATE:
GTSIO-520-H	600487	N1543G	4852	426.9	-	1126.6	12/5/2023

rev AVIATION

Carver Aero LLC DBA Rev Aviation
43W624 US HWY 30
Sugar Grove, IL 60554
P: (630) 466-4866

RIGHT ENGINE LOG ENTRY

Engine Differential Compression Check					
No 1	No 2	No 3	No 4	No 5	No 6
75/80	73/80	72/80	69/80	74/80	74/80

INSPECTIONS PERFORMED:

- Annual Inspection
- C/W AD 2000-01-16 exhaust inspection para: (B)(C)(E)(f), found ok.
 - Para (b) due again at 1176.6 hobbs
 - Para (c) due again by 12/2024
 - Para (d) due at 1605.7 hobbs
 - Para (e) due again by 12/2024
 - Para (f) due again at 1626.6 hobbs

MAINTENANCE ACTIONS PERFORMED:

- Drained oil and removed the filter. Cut open the filter, no defects found. Serviced the engine with 11qts of Phillips 20w50 oil and a AA48111-2 filter.
- Removed, inspected and cleaned the fuel servo inlet screens. Re-installed with new seals.
- Removed, cleaned, gapped and tested the spark plugs. Re-installed with new gaskets.
- Installed 2 new rocker cover gaskets.
- Removed the LH & RH magnetos. Set the internal timing and reinstalled the magnetos to the engine with new gaskets. Timed the magnetos to the engine and torqued the nuts.
- Installed a new wastegate inlet clamp P/N: 4256AB200.
- Performed a ground run-up test. Ops and leak check ok.

I certify this ENGINE is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals.

Carver Aero LLC DBA Rev Aviation
CGFR811C

Name: B. Coletto

SUB-TOTALS this page

TOTALS—Carry forward to next page