

RIGHT

ENGINE MAINTENANCE RECORDS

Aircraft Registration
Engine Position
Engine Serial No.

N 1543G Right 600487



ENGINE MAINTENANCE RECORDS

Log No.

Aircraft Registration No. N 1543G
Engine ManufacturerTCM
ModelGTSIO-520-H
Serial No600487
Date installed on aircraft
Time Between Overhauls (TBO) 1600 Hours
If used on multi-engine aircraft:
-/
☑ Right □ Left

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
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			TM	

Above referenced engine overhauled to new parts limits per FAR 43.2 (a)(1)(2) to conform w/TCM SM X-30045A. All gears cleaned polished when required, inspected, magnafluxed and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. E dated 5/18/98. Installed new camshaft p/n 653056-NP, s/n Z03IA126. AD 97-26-17 c/w per installation of new VAR crankshaft p/n 653020NP, s/n N03FA111 per TCM CSB96-8. C/W ultrasonic inspection per MSB96-10 due at next overhaul or when crankshaft removed. AD 99-19-01 c/w and found n/a per crankshaft date of manufacture I/A/W TCM CSB99-6A. Engine assembled with new TCM heavy style crankcase p/n 654119-14, s/n R03FA002 modified to RAM p/n 1509-2 per STC SE8338SW. Installed new TCM nickeled cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. AD 86-13-04 R3 n/a per cylinder p/n. AD 93-10-02 (MSB93-12) n/a per manufacture date. AD 76-02-07 n/a per installation of ALV9510 alternator. Engine accessories exchanged for remanufactured units with exception of vacuum pump, hydraulic pump, tach generator and prop governor which were not installed per this work order. Installed RAM/FAA/PMA rocker arms p/n 1654-1 and -2 (STC SE8338SW). Cadmium plating of engine hardware and associated lines and fittings per QQ-P-416C Class 2, Type II. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. Starter adapter shaftgear and crankshaft gear inspection c/w per TCM Service Bulletin CSB94-4D per installation of Service Kit EQ6642 with bushing p/n 654472. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Relocated turbo oil supply line per RAM Dwg. No. 1224, per latest Rev. per STC SE8338SW. Installed General Aviation Modifications, Inc. turboGAMIjector Kit No. GGT520-19A, s/n 12393 per STC SE09963SC. Above referenced engine was made eligible for 1600 hr. TBO per TCM SIL98-9 Rev. A Note 1. CSB664 (Bendix Magnetos) n/a per capacitor with red insulator installed. AD 82-13-01 (Bendix Magnetos) is n/a per TCM factory rebuilt magnetos installed. All aluminum alloy engine parts were coated per RAM Specification No. 1142. Installed spring loaded induction clamps p/n 1170-1 per STC SE3767SW. Installed RAM-FAA-PMA rocker box cover gaskets p/n 1366-1. Engine ground run on test stand per RAM Specifications for four (4) hours. Engine run-in with Phillips 20W-50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for RAM Aircraft test flight procedures. Engine preserved per Service Bulletin SIL99-1 temp. storage up to 90 days. Pertinent details on file under Project No. 1193/13252.

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

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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
		. 107	One	TOTALS brought forward from previous page
/24/04	1160.0	00.0	629.H	Installed this engine on Cessua 421B
				5/N 4218-0639 in Right position. using
	£			New eng Lord mounts & bolts. All hoses
				Replaced with New, All engine
	A			accessories including turbo changer
owij, i i			() () () () () () () () () ()	overhauled. Eng. final set up to be
	r	2. No. 1 - 9	2007 C 17	performed by TAS Aviation technicions.
(C)	7.	<u> </u>		RW Horch A & P2071921
		RAS	- Sa.	
8.24-04	1161.3	1.6	631.0	Annual Inspection accomplished
			Q 2, 4 3,	this date Run-up & flight test
				accomplished. Cyl. Compressions check OK.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,			I certify that this <u>Engine</u> has been
		1. 1. 1. 1. 1.	1.10°. 1.1	inspected in accordance with an Annual inspection and was determined to be in an air northy
11 270 5	19 Kg	1 1	anii la	condition. All A. D.'s up to and including 2004-17
				have been complied with Rw Horch AFP2071921 IA
_ TA	VIATION, INC.			
_				N1543G (Right Engine Logs) TCM GTSIO 520-H S/N 600487
	ted engine as req ed oil and filter (ction meeting requirements of FAR 43 App. D.
Compr	ression #1 72/80 at Compression a	#2 76/80 #3 and bore-scope l	76/80 #4764/80 Meets Requir. of	0 #5 80/80 #6 80/80 FTCM SB03-3 Diff. Pressure Test 3/28/03. (Master Orifice reading Minimum 46 PSI) except #2. M unit #1220-54.
Cleane	d and rotated spa	ark plugs. Clean	ned and resealed	d injector nozzles. le hose assemblies. Hoses changed at engine change meeting TSO C53a. Per SAIB #CE-03-41 no
01		ection is require		

DATE 5/10/2005 HOBBS 637.2 Eng TT 1167.5 Prop TSMOVH 7.59
"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

SUB-TOTALS this 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
G		0.1		TOTALS brought forward from previous page
11/3/05	1196.0	45.910	6753	CHANGED OIL & SILTER-SENT OIL TO LAB
	in the Con-			INSTAILED ACRO Sheer 80/40 OIL
	. 11	3,	7	CAI-48111-1 GILTER - GROUND RUNTO CHECK
	, , ,			for (EARS US. Moshin A/P4/89485705
	4	68.0	8	Contract to the second
7/1/66	12/8/1	68.0	697.4	REMOVED ALL COWLING FOR AUTURLINSPECTION
l. cair	1	1. 1. 1. 20	72.5	REMOVED 2 CLEARED JOAKK Plufs.
	- N		3.7	Chicken Comp. 0 0 0 0 0 0
				हिंद हैं। हैं। हैं।
1			11.W 0.5	GIL NOT CHANGED AT This TIME.
				ALL ADS THEN 2006-13 C/W.
	11.0		*	A CONTRACT OF THE RESIDENCE OF THE PROPERTY OF
	1			This Evaive was inspected
				in accordance with an areas consistency inspection and is in
	X	1) 1)	the of the	airworthy condition IS Markin 1/1948485/05
V3	39	4	I Section	
			4	
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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
1-19-67	12 18.1	50,1°	697.4	TOTALS brought forward from previous page
1-19-07	13003	87.2	7/6.6	CHANGED OIL & FILTER CUT FILTERS OPEN
			1	CHECKED for ANY ABNORMAL CONTENTS NONE FOOD
				INSTAILED NEW CH-48/11-1 FILTER & Phillips 20-50
				614. U.S. moshin A/P489485105
5/03/07			730.6	REMOVED HYDEAULIC PUMP FROM ENGINE
, ,			, si	SENT TO QUALITY AIRCRAFT ACCESSORIES INC.
Les	e			FOR OVERHAVE. BEPLACES PUMP & RAN
				ENGINE . V.I. Moslim A/P489485105-I/A.
3/2/07	1325.3	112.2	741.6	INSPECTED ENGINE AS requirED By FAR 91.409 PER
4 1				Inspection meeting requirements of FAR 43 App(D)
				Using Halb checklist changed oil + Filter
			. 4	(Phillips 20 w 50) Compression ck As Follows
· · · · · ·			0.00	(Phillips 20 w 50) Compression ck As Follows 1) 78 2) 74 3) 76 4) 77 5) 74 6) 74 30 80 80 80 80 80 . Installed
				New Spark Plugs RHB 32E ON All cylinders.
				cleaned injector Nozzles. All AD's thro 0705
		4		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 Bolo A/P 2961799
				END -
8/22/07	1325.3	112.2	741.6	cut oil Fitter, Inspected For metal, None
				FOUND. Robert BOBO AD 2961799 - END
7-1-07	1325.3	112.2	7416	I certify chatthis Engine has been inspected in accordance with an annual inspections
end.	ces lac	with		cerwoodly condition.
·	0			SUB-TOTALS this page Conne AP3090806 IH
		the second secon	741.6	TOTALS—Carry forward to next page

age No					
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	SIGNATUR	DESCRIPTION OF WORK PERFORMED— E & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought fo	rward from previous page
1/3/08			761.6	Removed	McCauley DeFeathering
, ,	. 7			1	or Mod# D20230-A,
1				Placarded =	Enstrument PANEL AS Follows,
			x + 2.7 + 1 = 1 =		ig Accumulators on Left And
				Right ENG	TINE REMOVED AND INOP. FOR
		V		weight a	BALANCE See Air France log.
				700 1000 1000 1000 1000	- END
1					Robert Bdo A/P 2961799-
2/6/08			761.6	REMOVED	PROPELLER GOVERNOR AND
				REPLACED W.	ITH OVERHALLED UNIT
· .	18.11.67			PIN DCFUS	29009-C/76 OH-
	<u> </u>			TESTED UNIT	Mo LEAKS.
			- 1	Us. mosh	A/P 488485105
					* The state of the
DATE 10/04	2008	N1543G	Right Engine		and an
DATE 10/24/ TTAF: 2475 TTP: Left and	A/C HO	BBS: 762.6	TTE: 1346	.3 SMOH: 133.2	
Completed in	spection usir	o FAR 43 Ap	p. D and check	klists as a guide.	
Serviced with	h eleven quar	ts of Phillips 2	20/50 oil and n	ew CH48111-1 ill engine accessories	
for security a	and operation	. Checked mo	tor mounts and	1 shocks. Checked all 11 72/80 #2 75/80 #3	
72/80 #4 73/	80 #5 76/80 #	46 76/80. Clea	med gapped ar	nd tested all s. Checked ADs for	
compliance	through 2008 ted 10/23/200	-21. See perm	anent AD com	pliance records in	
			PELLER HA	VE BEEN	the state of the s
INSPECTE	D IN ACCOR	DANCE WIT	TH AN ANNU	AL INSPECTION	
- MICHAEL	E. OCONNE	R AP 309080	6 IA	· · · · · · · · · · · · · · · · · · ·	
- M.C	Con	ner			The state of the s
		i in the state of			were the second of the second
1.1		5 11 2	1 1 1 1	SUB-TOTALS this p	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
		9		TOTALS brought forward from provide
	contamin intake an shocks. (#2 74/80 Inspected through :	d inspection of ation, none for dexhaust system of the checked all further for the che	C HOBBS: 81: using FAR 43 und. Serviced tems. Checked el and oil lines 75/80 #5 70/80 emoved minor permanent AD GINE AND PI ON AND WA	Right Engine 5.1 TTE: 1398.8 SMOH: 185.7 App. D and checklists as a guide. Drained oil, sample taken. Checked filter for with eleven quarts of Phillips 20/50 oil and new CH48111-1 filter. Checked all engine accessories for security and operation. Checked motor mounts and s. Checked waste gate operation OK. Checked compressions as follows: #1 72/80 #6 72/80. Master orifice = 45. Cleaned gapped and tested all sparkplugs. Thicks. OPS ran L&R engines all systems normal. Checked ADs for compliance of compliance records in A/C logs dated 11/20/2009. ROPELLER HAVE BEEN INSPECTED IN ACCORDANCE WITH AN AS FOUND TO BE IN AIRWORTHY CONDITION. "
	Common Service contact oil are follows #5 66 for seintak Check gappengii were 2011 recollocation in the common service contact in the contact	pleted insperiore checklists amination, non did new CH46 ws: Master of 8/80 and #6 ecurity and the eard exhausticked all engined and tested in ecompartment of the english of the exhaustic compartment of the exhaustic co	MP: 229.7 ction using F, s as a guide. one found. So 3111-1 filter. riface = 43 pt 70/80. Checkravel. Inspectist systems, i ne accessorie all spark p nent Ops ra AD's have be vised, perma 14/2011.	AR 43 Appendix d and Aircraft Maintenance Drained oil. Checked filters for erviced with eleven quarts of Phillips 20/50 Engine cylinder compression was as si: #1 71/80, #2 66/80, #3 65/80, #4 68/80, ked ignition timing. Checked engine controls ted motor mounts and shocks. Inspected ncluding turbocharger components. es for security and operation. Cleaned, llugs. Replaced all M674 gaskets. Cleaned in engine. No oil leaks seen. All systems een checked for compliance through inent airworthiness directive compliance eller have been inspected in accordance with was found to be in airworthy condition. 1806 IA M. O'Commun.
		* * * * * * * * * * * * * * * * * * * *		
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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
		,	to Year	TOTALS brought forward from previous page
ost operation changed oil au current Comp cleaned and re deplaced inne deset left/righ CW AD2007- (h)	ine as required by all checks per F/nd filter. (Phillip pression Meets Fotated spark plus precooler Oring and the mag timing to 100 hr/ or annual parts 8	AR43.15 (c) ps X/C 20W/50) Requirements of legs. Cleaned nd trurbo-contro specs. /2007(Supersede lad Starter drive /28/2012 THAT THIS EN	Compression and resealed fueller gasket. se 2005-20-04) (Chacklash inspect	EN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION MINED TO BE IN AIRWORTHY CONDITION."
	343 Ca	80 Old Colu rroll, Ohio	mbus Rd. F 43112 74	E: 1481 SMOH: 277.9
	Completed Drained oi filled with new M674	il. Checked fu twelve quart	using FAR 43 uel and oil filte s of Phillips X ecked ignition	Appendix d and Aircraft Maintenance Service checklists as a guide. ers for contamination. None found. Installed new AA48111-1 filter and in the contamination of the contamination of the contamination. None found in the contamination of the
	accessorie	es for security	and operation	on. Master orface = 43: Checked engine compressions: #1 70/80, #2
	accessorie 74/80, #3 engine. Ac complianc 9/13/2013	es for security 72/80, #4 73 djusted idle s e through 20 . Replaced ta	y and operation (80, #5 71/80 deed. No oil le 13-18. See re ich generator	on. Master orface = 43: Checked engine compressions: #1 70/80, #2 and #6 72/80. Cleaned engine and engine compartment Ops ran eaks seen. All systems were normal. All AD's have been checked for exised, permanent airworthiness directive compliance records dated with overhauled p/n MS25038-2 s/n C-131. See form 227 dated ng Dynavibe system to 0.01 IPS.
	accessorie 74/80, #3 engine. Accomplianc 9/13/2013. Aug/27/20 I certify thi found to be	es for security 72/80, #4 73. djusted idle spe through 20. Replaced ta 13. Balanced is engine and e in airworthy	y and operation was a moderated with the control of	on. Master orface = 43: Checked engine compressions: #1 70/80, #2 and #6 72/80. Cleaned engine and engine compartment Ops ran eaks seen. All systems were normal. All AD's have been checked for exised, permanent airworthiness directive compliance records dated with overhauled p/n MS25038-2 s/n C-131. See form 227 dated ng Dynavibe system to 0.01 IPS. We been inspected in accordance with an ANNUAL inspection and was
	accessorie 74/80, #3 engine. Accomplianc 9/13/2013. Aug/27/20 I certify thi found to be	es for security 72/80, #4 73. djusted idle spe through 20. Replaced ta 13. Balanced is engine and e in airworthy	y and operation when the condition of the condition. Yet and operation of the condition of the condition of the condition.	on. Master orface = 43: Checked engine compressions: #1 70/80, #2 and #6 72/80. Cleaned engine and engine compartment Ops ran eaks seen. All systems were normal. All AD's have been checked for exised, permanent airworthiness directive compliance records dated with overhauled p/n MS25038-2 s/n C-131. See form 227 dated ng Dynavibe system to 0.01 IPS. We been inspected in accordance with an ANNUAL inspection and was
	accessorie 74/80, #3 engine. Accomplianc 9/13/2013. Aug/27/20 I certify thi found to be	es for security 72/80, #4 73. djusted idle spe through 20. Replaced ta 13. Balanced is engine and e in airworthy	y and operation when the condition of the condition. Yet and operation of the condition of the condition of the condition.	on. Master orface = 43: Checked engine compressions: #1 70/80, #2 and #6 72/80. Cleaned engine and engine compartment Ops ran eaks seen. All systems were normal. All AD's have been checked for evised, permanent airworthiness directive compliance records dated with overhauled p/n MS25038-2 s/n C-131. See form 227 dated ng Dynavibe system to 0.01 IPS. We been inspected in accordance with an ANNUAL inspection and was

SUB-TOTALS this 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. $\mathcal{M}.\mathcal{O}$

Michael E. OConner AP 3090806 IA



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 AP3253746IA



DATE 7/14/2016

N1543G (Right Engine Logs)

AIRCRAFT TOTAL TIME

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.

HOBBS 963.4

Engine TT 1494.1 Engine TSMOVH 334.1

Anthony R. Saxton AP3253746IA

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7	Lumanair CRS-CGFF				Nar	ne: Scott M	Luman	Page 1 of 1	1
	performed refe	erencing the app		th respect to the turer's maintena		performed.	All maintena		The second secon
		cylinder #1 inta		th roomast to the	maintanasa	norformad	All mainter		
				om the flow divid				part no#	
	C/W AD 2	2000-01-16 per	para (b) visual in	found clean. Services found clean. Services for specifical series for the clean for th	xhaust system	, no damage	found. Repla		
		NANCE ACTIONS	PERFORMED:	ENGINE LOG E		ine 2014/50	F: (630) 466-4		1
		MANAIR AVIATION SERVICES					Lumanair, Inc. 43W624 US H' Sugar Grove, I P: (630) 466-4	WY 30 L 60554 866	
	GTSIO520-H	600487	N15436	LUM8534			1050.9	1/16/18	
[MODEL	ENGINE S		garage that the same of		•	HR MTR	DATE:	
-	1		No. of the last						
			thony R. Saxton		aut				
	ATE 9/1/2017 CERTIFY TH	AT THIS AIRC	CRAFT HAS BI	TOTAL TIME EEN INSPECTI NED TO BE IN	ED IN ACCOL	RDANCE W	ITH AN <u>100</u>	Engine TSMOV	
(j) D2016-16-1	400 hr. Remo 12 eff. Date 9/15	oval inspection p /2016 ECi cylin	oer MSB94-4 par der removal. NA	t 3 Due at Hobbs A affected cylinder	s 1029.4 ers not installed	1.		71 (See Sec. 2)	
W AD2007	-05-15 eff. 4/16/ Unscheduled Ir	spection due fo	llowing any engi	ne rough-Runnir	g			arring inspection again in 100 hr.	at 1083.1)
igs. Replace ming (Cont	ced left mag gasl inental)	ket. CW Magn	eto timing per (Continental M-C) manual sect	on 6-4.9.1 (superseded M	SB94-8D) Magne	to to Engine
ompression arrent Com	#1 72/80 #2 73. pression and bor	/80 #3 75/80 # e-scope Meets R	4 76/80 #5 73/ tequire. of TCM	80 #6 72/80 Bo SB03-3 Diff. Pro	essure Test 3/2	8/03. (Maste	er Orifice read	ing Minimum 46 l 8 Cleaned and g	PSI)
is date. Per	ine per 100 hr. c formed post insp and filter service	ection operation	nal checks per FA	f FAR 43 App. AR43.15 (c)	D. in conjunc	tion with Ar	nual Inspection	on on Cessna 421E	3, s/n 421B0639
VIATION, rin Cessna Specia WWW.TAS-AMATION.C	OM		CMI (G (Right Engir GTSIO-520H	0,	S/N 600483			
45 D	b		1 1 1 1 1 1 1 1	TOTALS bro	ught forward	from pre	vious page	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DATE	IN SERVICE	SINCE OVERHAUL	METER TIME		GNATURE & C	ERTIFICATE	NO. OF PER	SON PERFORMIN	IG WORK
	TOTAL	TOTAL TIME	TACH OR RECORDING		DESC	PUDTION	OF WORK B	ERFORMED—	

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

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

ORK

ge No.

RH ENGINE LOG ENTRY

	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

ATE	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
				R/H Engine
9.63	The same of		N15430	G Cessna 421B W/O : 17-6214
	Тиверу	DUGAN	Date: 10/2 Engine M	20/2017 S/N: 421B0639 Hobbs: 1012.1 lodel: GTSIO-520-H Engine Serial: 600487
	ne	w, (P/N: CH4	18111-1). Ser	secured oil sample for analysis. Removed oil filter and replaced with viced engine with 12 quarts Conoco-Phillips X/C 20w50 aviation engine - successful. Ref. Cessna 421B Service Manual.
				11 72
				Matthew D Rapien 3834898 A/P
		1		
R IMPRES	SIONS, INC.			
ESSIONAL AIR	CRIVET SERVICE			
				Hobbs:1022.8
7929	Karl May Dr	r. 8		Hobbs:
7929 Waco CRS N	Karl May Dr , Texas 7670 Jo. AK6R541	8 N		Date:12/ <u>05/2017</u>
7929 Waco CRS N n above reak check	Karl May Dr , Texas 76703 Jo. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date:12/ <u>05/2017</u>
7929 Waco CRS N	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus
7929 Waco CRS N n above reak check is	Karl May Dr , Texas 76703 Io. AK6R541 eferenced eng good and is a	8 N gine, adjusted	prop governor	Date: 12/05/2017 II GTSIO-520-H S/N R-600487-R RPM's per Specs. Checked set-up of systems per Specs. Straine ground musus

DATE	SERVICE	SINCE OVERHAUL	METER	SIGN	MIUNE 4				
				TOTALS broug	ght forward	from previ	ous page		
s date. Perianged oil a suppression in trent Compression in the compression in th	formed post instant filter service #1 72/80 #2 73 pression and bor resealed fuel injuced left mag gastinental) -05-15 eff. 4/16 0 Unscheduled In hr/ or annual S 400 hr. Remula eff. Date 9/15	pection operation: with (Phillips 2: 1/80 #3 75/80 # re-scope Meets Fector nozzles Relect. CW Magn 1/2007(Supersedenspection due fotarter drive backoval inspection poi/2016 ECi cylin HOBBS 983	CMI G g requirements of nal checks per FA 0W50 oil) #4 76/80 #5 73/8 Require of TCM S placed cracked #1 neto timing per C es 2005-20-04) (G ellowing any enginelash inspection per per MSB94-4 part der removal. NA 3.1/ AIRCRAFT CRAFT HAS BE	G (Right Engine TSIO-520H FAR 43 App. D. R43.15 (c) 60 #6 72/80 Bores SB03-3 Diff. Press fuel injector line fontinental M-O restSIO520 only) (The rough-Running or MSB94-4F part affected cylinders TOTAL TIME 22 EN INSPECTED SED TO BE IN A	scope insp. cosure Test 3/28 with RAM Amanual section CM MSB94-2 (max .06") 029.4 cot installed 2595.5	ompleted. //03. (Master ircraft FAA/I on 6-4.9.1 (st 4F)Starter ac (035/.04/.03 Engine EDANCE Wi	Orifice reading MA #2180-in perseded M in the pe	ing Minimum as Cleaned an SB94-8D) May rring inspection again in 100	on hr. at 1083.1)
		An	thony R. Saxton	AP3253746IA_	Junt	1			
					0.	•			
		- sugarir s	tu 1/2000	T					1
—	MODEL GTSIO520-H	ENGINE S/				-	1050.9	DATE: 1/16/18	
	 Changed C/W AD 2 exhaust s Replaced 636114. Replaced 	2000-01-16 per support hanger of cylinder #4 fue of cylinder #1 into the cylinder is in airword erencing the appropriate to the cylinder for t	S PERFORMED: Iter opened and f para (b) visual ins bushing at cylinde I injection line from the gasket.	engine Log ento ound clean. Service spection of the exh er #5. Re-inspect p om the flow divide th respect to the manual	need with Philli neaust system, per (b) by 110 r to the nozzi	no damage 0.9 hobbs tir e with a facto	found. Replane. ory new line All maintena	ced the part no#	
		FURTH RIES T		SUB-TOTALS	this page	-		RTHER ES THIS	
		PAGE		TOTALS—Car		to next pa	ge PA	GE	

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	ENG	GINE S/N	A/C REG.	W.O.#	SMOH		нов	BS	DATE	:	
GTS10-520	-H 6	00487	N1543G	LUM9171	389.5		1089	9.2	9/15/2	10	
L	LUMANAIR AVIATR SER	ON VICES	, , , , , , , , , , , , , , , , , , ,	(IGHA)	<i>r</i> ,	LOW OF	43W62 Sugar (P: (630	air, Inc. 1 4 US HV Grove, IL 0) 466-48	60554 666		
				HENGINE LOG			r, (030	1 400-43			
	-	No 1	No 2	No 3		No 5	No 6				
		72/80	74/80			3/80	74/80	- 41	,		
INSPE	CTIONS,PER	FORMED:							•		
• c/		01-16 Exh		IAW par. (B,C,			nd. , ·				
	TENANCE AC			acklash found	within tolera	ince.					
• C	nanged the o	il and filter	. Inspected the	e old filter, no	defects foun	d. Service	d the engine	with 1	1 qts of		
				Leak check ok							
	emoved and eplaced the e		yl. #5 oil return	line.	- 1						
				een the oil filte	er base and t	he case.	-				-
							ad b=10'				-
				ne to clear con nduction tubes		engine a	ind baffling.				
	_			s in the engine		nt.					
				ction. Reinstall			gaskets, and	d timed	them to)	
	e engine. Ru									and a self-subsection	
				runs along the with respect to		-		!			
				facturer's main			normed. All	mainte	nance		
0.00	air, Inc.						13.	Ca	ests	2	
CGFR8	11C				41-						
	•				Na	me:		Pa	ge 1 of 1		
	`-	Τ.	T		Na	me:		Pa	ige 1 of 1		1000
	·				Na	me:		Pa	ege 1 of 1		And a
EL T	ENGINE	s/n	A/C REG.	w.o.#							
	ENGINE 60048		A/C REG. N1543G	W.O. #	SMO	H .	:	HOE	BS	DATE:	
	ENGINE 60048		A/C REG. N1543G	W.O. #		H .		НОЕ	BS		
	10.00				SMO	H Lum	anair, Inc. (KAR	HOE 109	BS	DATE:	
20-H	60048				SMO	H Lum	anair, Inc. (KAR 1624 US HWY 30 Ir Grove, IL 605)	HOE 109	BS	DATE:	
LUMANA AVIA	60048		N1543G	LUM9528	SMO 398.	Lum 43W Suga P: (6	7624 US HWY 30 or Grove, IL 605 (30) 466-4866	HOE 109	BS	DATE:	
LUMANA AVIA	60048 MIR TITION SERVICES	87	N1543G		SMO 398.	Lum 43W Suga P: (6	624 US HWY 30 or Grove, IL 605	HOE 109	BS	DATE:	
LUMANA AVIA S	60048 MIR TTION ERVICES	ERFORMED	N1543G	LUM9528	SMO 398.	Lum 43W Suga P: (6	(624 US HWY 30 or Grove, IL 605 (30) 466-4866 (30) 466-4987	HOB 109	98S 7.7	DATE: 7/30/2	1
AVIA STENANCE Removed to #5154552	60048 MIR ITTION SERVICES ACTIONS PI the engine dr -1. Installed	ERFORMEE iven air cor a new hydr	N1543G	RH ENGINE LOC aulic pump P#1 erhauled by Air	SMO 398. G ENTRY PF271325BCI craft Access	Lum 43W Sugar P: (6 F: (6	1624 US HWY 30 or Grove, IL 605: 330) 466-4866 330) 466-4987 d the Cessna klahoma P#2	HOB 109 R) 54	nBS 7.7	DATE: 7/30/2: pump ada llation was	pter
LUMANA AVIA S NTENANCE temoved to #5154552 terformed	60049 MIR ITTION ERVICES ACTIONS PI the engine dr 1-1. Installed in reference	ERFORMED iven air cor a new hydr to the Ces	N1543G N1543G Inditioning hydraulic pump over saulic pu	RH ENGINE LOC aulic pump P#f erhauled by Air tenance manus	SMO 398. G ENTRY PF271325BCI craft Access	Lum 43W Sugar P: (6 F: (6	1624 US HWY 30 or Grove, IL 605: 330) 466-4866 330) 466-4987 d the Cessna klahoma P#2	HOB 109 R) 54	nBS 7.7	DATE: 7/30/2: pump ada llation was	pter
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LUMANA AVIA S NTENANCE Removed to #5154552 Performed engine tech	ACTIONS Properties of the engine dring reference inicians. 337 gine is in airy	ERFORMED iven air con a new hydi to the Ces 'is filed to worthy con	N1543G N1543G Inditioning hydrical pump over sana 421C Main FSDO this date. dition with respective pump over sana 421C Main FSDO this date.	RH ENGINE LOC aulic pump P#1 erhauled by Air tenance manus	SMO 398. G ENTRY PF271325BC creaft Access al, Cessna 42	Lum 43W Suga P: (6 F: (6) E. Installed ories of Ol 1B mainte	1624 US HWY 36 Ir Grove, IL 605 330) 466-4866 330) 466-4987 d the Cessna klahoma P#2 enance manu	HOB 109 R) 54 421C h 4343R aal, and	nydraulic AB. Instal I oversigh	pump ada llation was at by RAM referencin	pter
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DATE

	MODEL	ENGINE S/N	A/C REG.	W.O.#	SMOH	1 -	1 "	OBBS	DATE:	1
9 No	GTS10-520-H	600487	N1543G	LUM9608	406.0		11	105.7	10/20/21	- to
DATE	TAYS SAN TOWNS	ANAIR		,	in script		Lur 43V	manair, inc. W624 US H	(KARR) WY 30	100%
100000000000000000000000000000000000000		AVIATION	TOTAL					gar Grove, (630) 466-4		
See 1 1 1 2 3		SERVICES		ENGINE LOG				(630) 4 66 -4		
				ferential Comp		ck				
		No 1	No 2			No 5	No 6			
		74/80	73/80	74/80 7	4/80 7	3/80	75/80	1		
-	INSPECTIO	NS PERFORMED:								-
		Inspection								
		20-16-11 cross flow D 2000-01-16 Exha					und			,
		07-05-15 Starter ad								
		NCE ACTIONS PER								
	• Change	ed the oil and filter	. Inspected the	e old filter, no	defects foun	d. Servic	ed the en	gine with	11 qts of	_
		20W-50, camgaur								
		ed timing of the ma								
	• Cleane	ed, gapped and insp	pected spark pl	lugs, found ok	Installed wi	th new c	opper gas	kets P/N	M-674. PJ	0 = 2
										-
	14005	Farcus - fr	1.4/0.550	T			1	10000	-	7
	MODEL	ENGINE S/N	A/C REG.	W.O.#	SMOH	ger George are		HOBBS	DATE:	17 1
	GTSIO-520-H	600487	N1543G	LUM9608	406.0		1	1105.7	10/20/21	
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		s engine is in airwo					erformed	d. All mai	ntenance	
	performed	referencing the ap	oplicable manu	afacturer's mai	ntenance m	anuals.	1	-	1 14 10 10 10 10	2
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	Lumanair,			TOTALS this	1	next pa	ge		Page 3 of 3	

THE RESIDENCE OF

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		IT ENGINE LO		. ;	Carver Aero LLC DB 43W624 US HWY 3 Sugar Grove, IL 605 P: (630) 466-4866)
	1		ferential Com				
	No 1	No 2		No 4 59/80	No 5 74/80	74/80	
	75/80	73/80	72/80 6	09/00	74/00	74/00	
INSPECTIO	NS PERFORMED:						
• ` Annu	al Inspection						
• c/w	AD 2000-01-16 exh			E)(f), found	d ok.		
		again at 1176.		g and all officering a con-	Control of the Control		
		again by 12/20 at 1605 7 bobb					
		at 1605.7 hobb again by 12/20					
		again at 1626.6		No girana ana	la rapristay o came		
MAINTEN	ANCE ACTIONS PE	RFORMED:					
Drain	ned oil and remove	d the filter. Cu	t open the filt	er, no defe	cts found. S	erviced the eng	ine with 11qts of
	ps 20w50 oil and a						
	oved, inspected an						
	eved, cleaned, gap lied 2 new rocker o		the spark plu	igs. Re-inst	ailed with n	ew gaskets.	
	oved the LH & RH r		he internal ti	ming and re	installed th	e magnetos to t	he engine with
	gaskets. Timed the					3	Jane Hilli
	lled a new wastega						
 Perfo 	rmed a ground rur						
	S ENGINE IS IN AIM	ortny conditio	n with respec			erformed. All n	
I certify thi					manuals		
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I certify thi performed Carver Aero	referencing the ap	plicable manu		intenance r	manuals.	Colett	
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