



ENGINE MAINTENANCE RECORDS

Log No	
1/101=	
Aircraft Registration No. <u>N4215m</u>	
Engine Manufacturer Continental	
Model_GTSIO - 520 -N	
Serial No. 610222	
Date installed on aircraft 3-3-14	
Time Between Overhauls (TBO) 1600 Hours	
If used on multi-engine aircraft:	
Right ☐ Left	

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

DATE	SERVICE	SINCE OVERHAUL	RECORDING METER TIME
Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time
2/22/16	8399.1	0.0	290.7

TOTAL TIME



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

RAM Aircraft, Limited Partnership • Waco Regional Airport

CONTINENTAL GTSIO-520-N Right Engine S/N 610222

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/ CMI SM X-30045. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. L, dated 12-26-2013. Above referenced engine modified per STC SE8338SW-D. Installed new RAM camshaft p/n 2621-1, s/n XGA14005 as direct PMA replacement of Continental camshaft. Installed lifters p/n SA628488 int. p/n SA646277 exh. AD 10-11-04 n/a to lifter p/n installed _Installed overhauled VAR crankshaft p/n 653020 s/n C199202N_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 SB00-3A, or later FAA approved revision, except if repaired by RAM Aircraft, Limited Partnership per latest FAA approved revision of RAM Drawing 2618. Contact RAM Aircraft, L.P. at 7505 Karl May Drive, Waco TX 76708, or (254)752-8381 for replacement parts or service difficulties. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W TCM MSB99-6A. Engine assembled with overhauled CMI heavy style crankcase p/n 654119-11, s/n R05IA024. Installed new CMI 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 overhauled oil cooler p/n 8000464, s/n 3859445. Engine accessories exchanged for overhauled or new units with exception of tach generator s/n 1268, vacuum pump s/n C4008, and hydraulic pump s/n 2547 which were installed with previous time in service. Installed new Hartzell ALV 9610 alternator (weight 12.75 lbs.) This will require a weight and balance change. C/W TCM CSB 04-5A per Capacitor replacement at overhaul. CSB 02-8 N/A per capacitor with red insulator installed. MSB94-8D on magneto timing procedure c/w per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Engine modified to GTSIO-520-N per Continental Service Bulletin M-75-6 Rev. 1. Installed 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 MSB94-4G 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. AD 87-04-05 c/w at overhaul. Installed RAM/FAA/PMA spring loaded induction clamps p/n 1170-1. Installed RAM-FAA-PMA rocker box cover gaskets p/n 1366-1. Engine ground run on test stand per RAM specifications for 4 hours. Engine 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 Service Bulletin SIL99-1 temp. storage up to 90 days. Pertinent details on file under Project No. 7968.

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

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Date	Total	Total	Tach or
	Time	Time	Recording
	In	Since	Meter
	Service	Overhaul	Time
3-3-16	8399.1	0.0	290.2



CONTINENTAL GTSIO-520-N Right Engine S/N 610222

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

Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time
3-21-2016	8409.8	10.7	301.4



RAM Aircraft, Limited Partnership • Waco Regional Airport

Continental GTSIO-520-N Right Engine S/N 610222

On above referenced engine installed new No.4 EGT probe and No.1 CHT probe. Adjusted takeoff RPM and manifold pressure, oil pressure and fuel pump pressure/ flow per Continental and Cessna specifications. Pertinent details on file under Project No. 8005.

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

GENERAL AVIATION 340 WITHERSPOON WAY EL CAJON CA 92020 04-08-2016

Michael Koontz

Hobbs: 317.7 RIGHT ENGINE LOG N421SM GTSIO 520-N S/N: 610222 TSMOH: 27.0

- Combined Operation #1 and #2 together and completed each inspection IAW Cessna Progressive Care Maintenance Program.
- Changed the oil and filter by removing the break in oil and servicing with 12 quarts of Aeroshell 100 Plus oil and CH48109 filter. Replaced the crush washer. Took an oil sample.
- Secured a piece of baffle above the #1 cylinder
- Engine was test ran and leak checked then performance ran.
- I certify this engine was inspected IAW Cessna Progressive Care Maintenance Program Operational Check #1, #2
 and was in airworthy condition.

V
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Page No	GENERAL AVIATION 340 WITHERSPOON WAY EL CAJON CA 92020 05-31-2016	Hobbs: 343.1 RIGHT ENGINE LOG	N4218M GTSIO 520-N S/N: 610222 TSMOH: 52.4	_
DATE		L II 100 Plas	and CH48109 filter Replaced the crush wa	sher
	Took an oil sample	eak checked then performance run	and Chaster the	目
	Michael Koontz	1/A 3799094		
	GENERAL AVIATION 340 WITHERSPOON WAY EL CAJON CA 92020	Y Hobbs: 364.7	N421SM GTSIO 520-N S/N: 610222	
	08-04-2016	RIGHT ENGINE LOG	TSMOH: 74.0	
	Took an oil samp Replaced the #3 l	and filter serviced with 12 quarts of Aeroshell W le. EGT probe with new. an and leak checked then performance ran.	100WP oil and CH48109-1 filter.	
	Michael Koontz	m Keny 1/A 379	9094	
	_	\bigcirc		
		1		
	GENERAL AVIATION 340 WITHERSPOON WAY EL CAJON CA 92020	Hobbs: 383.1	N421SM GTSIO 520-N S/N: 610222	
	10-10-2016	RIGHT ENGINE LOG	TSMOH: 92.4	
	leak checked.	h an overhauled unit from Ram Aircraft. P/N Marter was installed with a new o-ring and tested governor and sent to American propellers for be	several times then test ran and	
	Complied with AD 07-0 Part 3. Of SB MSB 94 All were .03 inches and	. Installed the cable and checked the rigging, P/ 05-15 Starter Adapter Assembly and Crankshaft 1-4G. Part 2 C/W By measuring the damper get under the maximum, 06 inches, C/W Part 3 b	N DCFS290D9C/T6 S/N: 980052. Gear Inspection By C/W part 2.and ar backlash in four places.	
	Installed adapter and st found no leaks. The eng Part 3 is due again in 4	gear and crankshaft gear for wear. Both are okay arter with new gasket and o-ring. Engine was the time performed normally. Part 2 is due again in 1 100 hours or a tach time of 783.1.	at this time. en test ran and performed a test flight 00 hours or at a tach time of 483.1.	
	Michael Koontz	te each 100 and 400 hours TIS, or after a rou	gh running engine has been established.	
		I/A 3799094		
	+ + +	FCA Asiabar Tra		
		EGA Aviation Inc. 2642 Airport Dr.		
		N. Las Vegas , NV. 89032 (702) 683-7507		
	1421514	R/H Engine Logbook	25.0.+ 2016	
	N421SM Tach:0389.9	WO# 2338	25 Oct. 2016 TTSM0:0099.2	
	Trouble shoot R/H a	alternator inop. Insp. found broken F1 termi ed. Installed missing cotter pin to inbd. exha	nal. Installed new F1	
	loose case bolt. Tig	ntened nut with new clamp holding prop De	-Ice cables. Post maint,	15
	run up indicates all	ops normal and no leaks noted at this time.	-	
	Aircraft returned to	service Lennie John Guerin 2148	3690 A/P IA	
	All ci di Ci ccai i i ca to			

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME		RIPTION OF WORK PERFORMED— STIFICATION NO. OF PERSON PERFORMING W	/ORK
				TOTALS brought forward f	rom previous page	
	EL CAJON (11-09-2016) Ch	RSPOON WAY CA 92020 nanged the oil and ook an oil sample.	RIG I filter with 12 quar	bs: 393.4 HT ENGINE LOG rts of Aeroshell W100 Plus oil :	N421SM GTSIO 520-N S/N: 610222 TSMOH: 107.8	
	En Michael Koor		and leak checked.	~~ W	3799094	
			l I		-	
	Perfo Remo Chan Remo Back alterr Repla AD 0 meas Licert	promed Operation and a cylinder of oved Right Engine in the order of t	#3 and #4 IAW Ces lifferential pressure e #5 Cylinder and it liter to Acroshell 10 lrive and sent back lew the aircraft and d a warrantee Drive end on the ground Adapter Assembly cklash. #103 #2.0 r inspection every 4 timing	sna 421C progressive care progress test of cylinders. #1 78 #2 72 installed a warrantee cylinder from the straight mineral oil for break to Ram for bench test. Returne the right alternator was still good effect on the now left alternator with the to the airframe and the All and Crankshaft Gear inspectors #2 and Crankshaft Gear inspectors #3 .03 #4 .03 Next due in 400 hours and is due again at 7	#3 78 #4 79 #5 40 #6 70 com Ram Aircraft. in and CH 48109-1 filter. d with no discrepancies. Installed comp offline at high RPM Swapped or and sent the original drive back to Ram. JX wire terminal end. etion Part 2 is due. C/W MSB 94-4G part2 B 100 .0 hours or Hobbs time of 505.7. Part 3 of 83 Hobbs time.	of -
IGINE S/N (F		ON PR	langar One Avid epair Station No 1HGF 026 Palomar Airport Ro arlsbad, CA 92011	R058B		DATE: 2

Ground run, operational and leak check satisfactory.

This aircraft, airframe, or appliance identified above has been repaired anator inspected in accordance with current Regulations of the Federal Aviation Administration and Manufacturer data and is approved for return to service.

DATE: 2/24/2017

SIGNED:

Work Order: 20170220-1M

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Mike Clingerman Certified Repair Station No. 1HGR058B

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Par		No		
Pai	æ	NO.		

DATE

TOTAL TIME IN SERVICE

TOTAL TIME SINCE TACH OR RECORDING DESCRIPTION OF WORK PERFORMED—

ENGINE MODEL: GTSIO-520-N ENGINE S/N (R) 610222 REG NO N421SM WORK ORDER 20170724-1M



Hangar One Avionics

Repair Station No. 1HGR058B 2026 Palomar Airport Road Carlsbad, CA 92011 Phone. 760-929-2270 DATE: 12/12/2017 A/C TSN: 4500 ENG TT (R): 8542 5 HOBBS: 434 1

TSMOH: 143.4

Right Engine Entries

Completed Annual Inspection IAW FAR 43 Appendix "D" and the Cessna Inspection Time Limits Chart as a guide.

Right Engine. Complied with AD# 2007-05-15 (Backlash of viscous damper and shaft gear) by completing part 2 of TCM MSB94-4G. Compliance with this part of the AD due each 100 hours or annual inspection, whichever occurs first. No discrepancies noted.

CW TCM SB03-3; Borescope revealed normal indications for in-service cylinders. Performed a differential compression check as follows: 1) 76/80, 2) 75/80, 3) 71/80, 4) 74/80, 5) 76/80, 6) 71/80. NOTE: Continental Calibrated Orifice Tool = 48/80

Replaced all spark plugs with new Tempest plugs 12 ea. P/N URHB32E

Removed all fuel injector nozzles. The nozzle in cylinder #4 fragmented upon removal. Cleaned remaining nozzles in ultrasonic cleaner, then reinstalled those nozzles and one new nozzle P/N 2563-19A, IAW TCM SB 06-1A and RAM Aircraft fuel injector nozzle installation recommendations, utilizing new 6 ea. compression seals P/N 633958-3, 6 ea. seals P/N 640612, 2 ea. compression seals P/N 633958-5, 6 ea. washers P/N X1473, 6 ea. washers P/N 628556, and 12 ea. o-rings P/N 630979-9.

Removed, cleaned, inspected fuel metering screen, then reinstalled utilizing new gasket P/N 649983.

Timed both magnetos to engine utilizing spark advance per engine data plate.

Drained oil and removed filter, cut open filter - found small quantity of ferrous metal in filter pleats. See below for more information. Installed new oil filter P/N CH48109-1, new drain plug gasket P/N MS35769-11, and serviced engine with 13 qts of Aeroshell ASW100 "Plus" oil.

Reset Idle to 750RPM. Idle mixture reset to 20 to 30 Rise at 600RPM and 10 Rise at 1300RPM per the Cessna 421C MM.

Secured flow divider fuel hose at Hydraulic pump "B" nut to prevent chafing.

Secured rigid line from intake manifold and flow divider rigid vent line to prevent chafing

Removed upper half of collector assembly heat shield, repaired broken mounting bracket, then reinstalled heat shield.

Due to the discovery of ferrous contaminants in the oil filter pleats, the following actions were taken: Removed all lifters from RH Engine for inspection of the cam and lifters, per RAM tech support. Inspected lifters per TCM SID05-1B. Found significant spalling on the #1 exhaust lifter. Found minor spalling on additional 5 lifters, sent pictures and alerted RAM of our findings of all 12 lifters. Rotated crank flange (with prop removed) and inspected #1 exhaust cam lobe per TCM SID05-1B. In reference to page 10 of 12 para (2), found small rough area and determined per TCM SID05-1B that no further action was required. In reference to page 11 of 12 para (3) figure 12, no cracking was found on the cam. Sent pictures and alerted RAM of our findings of the #1 exhaust cam lobe. RAM requested no further inspection of the cam, to replace 6 lifters, and continue service for a recheck of the filter in 10-15 Flight Hours. Replaced 6ea lifters per RAM request using Warranty exchange parts 3ea P/N SA628488 and 3ea P/N SA646277, collapsed remaining 6 lifters and coated face of lifters with 2076675 Molycoat per TCM SID05-1B, reassembled with new pushrod seals P/Ns 630286 and 534610. Installed all new rocker arm retaining clips P/N 501868, cleaned gasket mating surfaces and installed new rocker cover gaskets P/N 655705, all work in accordance with the TCM MM and SID05-1B. Ground run up / leak check satisfactory.

Disassembled, cleaned and reinstalled RH throttle arm assembly on fuel metering unit and rigged properly.

I certify that this ENGINE has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition --end--

	This aircraft, airf Manufacturer da	rame, or appliance ta and is approved	identified above has for return to service.	been repaired and	r inspected in accordance with current Regulations of the Federal Aviation Administration and
	DATE: 12/12/2	017	SIGNED:	14/1	Work Order: 20170724-1M
•	Mike Clingerman Certified Repair Station No 1HGR058B			man pair Station No 1HGR0	Printed by EBis 3 (datcomedia.com)
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ENGINE MAINTENANCE RECORDS

Log No.

Aircraft Registration No. N816D5
Engine ManufacturerTCM
ModelGTSIO-520-N
Serial No
Date installed on aircraft
Time Between Overhauls (TBO)Hours
If used on multi-engine aircraft:
YS Right □ Left

Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708

254/752-8381

FAX 254-752-3307

1-800-445-9713

Page No.

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



Engine Previous Total:	4057.0
Hour Meter:	84.0
Since Major Overhaul:	0.00
Propeller Total SMOH:	644.0
Date:	06-08-06

TCM GTSIO-520-N Right Engine S/N 243140-H

Above referenced engine overhauled to new parts limits per FAR 43.2 (a) (1) (2) to conform w/TCM SM X-30045A and I/A/W STC SE8338SW. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. F dated 7/6/05. Installed above referenced engine in right position of Cessna S/N 421C1213. Installed new camshaft p/n 653056 s/n Z06AA261. Installed overhauled VAR crankshaft P/N 652832 S/N A835. Ultrasonic inspection C/W per MSB96-10 and is due at next overhaul or when crankshaft removed. TCM GTSIO-520 series engine crankshaft counterweights, P/N 652833-OH are repaired in accordance with FAA approved procedures per RAM Drawing 2618, Rev. B, dated 11-15-05. Instructions for Continued Airworthiness: Remove P/N 652833-OH counterweights at next engine overhaul and replace with new per TCM SB00-3A, or later FAA approved revision, except if repaired by RAM Aircraft, Limited Partnership per latest FAA approved revision of RAM Drawing 2618. Contact RAM Aircraft, L.P. at 7505 Karl May Drive, Waco TX 76708, or (254) 752-8381 for replacement parts or service difficulties. AD 99-19-01 N/A per crankshaft date of manufacture I/A/W TCM CSB99-6A. Engine assembled with new TCM heavy style crankcase P/N 656935-12AI, S/N R05JA428. Installed new ECI cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. AD 86-13-04 R3 and AD 93-10-03 (MSB93-12) are N/A per cylinders installed. Re-installed McCauley propeller model 3FF32C501, S/N 812973. Engine accessories exchanged for overhauled or new units except as noted. Re-used customer's prop governor S/N 900097, tach generator, S/N 282 and vacuum pump S/N 7909. Installed new landing gear hydraulic pump S/N 2271 and air conditioner hydraulic pump S/N Installed factory rebuilt turbocharger P/N 465930-9003, S/N JAR00272. RAM/FAA/PMA fuel nozzles P/N 2563-19A. TCM Service Bulletin SB06-1 N/A per installation of RAM fuel nozzles. MSB94-8A on magneto timing procedure C/W per timing to data plate TC degree requirements with TDC locator and protractor with pointer. Engine modified to GTSIO-520-N per Continental Service Bulletin M-75-6 Rev. 1. Installed RAM/FAA/PMA rocker arms P/N 1654-1 and -2. Cadmium plating of engine hardware and associated lines and fittings per QQ-P-416C Class 2, Type II. AD 2000-01-16 C/W, see airframe log for details. Installed new Aeroquip integral firesleeved fuel, oil and hydraulic hoses meeting TSO-C53A Type D and TSO-C75 Type III. Installed new RAM/FAA/PMA oil cooler P/N 2601-1, S/N 1751010. Exhaust slip joints modified per STC SA4592SW. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. Starter adapter shaftgear and crankshaft gear inspection, AD 2005-20-04 C/W per TCM Service Bulletin MSB94-4G 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, Rev. H, dated 11-18-03 per STC SE8338SW. Engine serviced with Phillips multi-grade 20W50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Above referenced engine eligible for 1600 hr TBO per TCM SIL98-9, Rev. A. CSB02-8 N/A per capacitor with red insulator installed. C/W TCM CSB04-5 per capacitor ground stud torque check. AD 82-13-01 (Bendix Magnetos) is N/A per Kelly Aerospace overhauled magnetos installed. Unpainted aluminum alloy engine parts were coated per RAM Specification No. 1142. 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 pump pressure, idle, mixture, fuel flow, max rpm manifold pressure and oil pressure adjusted per TCM SID97-3C. Engine ground run power test good. All engine systems checked for leaks. Engine approved for return to service for the work performed. Pertinent details on file under project no. 2714.

RAM Aircraft, Limited Partners	hip, P.O. B ox 5219, Waco, Texas 76708	CRS VAIR551K
10.000	TOTALS—Carry forward to next page	
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION SIGNATURE & CERTIFICAT	OF WORK PERFORM TE NO. OF PERSON PER	
			TOTALS	brought forward from pr	evious page	
Make:		SSNA	Model:	421C	Date::	7/7/2006
Registra	tion: N8	76DS	Serial #:	421C-1213	Total Ho	ours: 0
Right En Ser#:	gine		Engine Total Hours:	0	Tach: TTSMO	121.9 H:
with 12 or repaired	its Aeroshe in accorda to work per	ell 100W oil. nce with Fe	nspect filter for metal in Engine ground run and ederal Aviation Regular is herby teturned to s	nd leak checked. I cer tions and determined	tify this engine has	s been inspected condition with
RAM Air	Regard Limited	Partnership	Waco Regional Airport		S	Meter: 168. MOH: 84. Date: 08-07-0
	ordit, Elitinos	· uninording	3			Date06-07-0
0		*	TCM GTSIO-520-N	Right Engine S/N 24	<u>3140-Н</u>	
gask visua whic	bove_refere et. Service al inspectio hever occu	enced engin d with 12 qts n and found rs later. Tes	•	turbo controller p/n 4 and new CH48109 oil f this time. Due again in ad proper operation sa	3140-H 70836-9003, s/n TI ilter. C/W AD 2000 n 50 hours TIS or 3 tisfactory. Engine a	R0201P with new -01-16 para (b) by 30 calendar days
gask visua whic	bove_refere et. Service al inspectio hever occu ervice for m	enced engin d with 12 qts n and found rs later. Tes aintenance	TCM GTSIO-520-N te installed overhauled s. Aeroshell 100W oil a t to be serviceable at t t flight for leak check ar	turbo controller p/n 4 ind new CH48109 oil f this time. Due again in nd proper operation sa details are on file unde	3140-H 70836-9003, s/n Tl ilter. C/W AD 2000 n 50 hours TIS or 3 tisfactory. Engine a er Project No. 286	R0201P with new -01-16 para (b) b 30 calendar days approved for return 9.
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gask visua whic to se	bove_refere et. Service al inspectio hever occu ervice for m	enced engind with 12 qts n and found rs later. Tes aintenance	TCM GTSIO-520-N te installed overhauled s. Aeroshell 100W oil a d to be serviceable at the flight for leak check ar performed. Pertinent content of the performed of the performance of	turbo controller p/n 4 nd new CH48109 oil f this time. Due again in nd proper operation sa details are on file under Box 5219, Waco, Tex 421C 421C-1213	3140-H 70836-9003, s/n TI filter. C/W AD 2000 n 50 hours TIS or 3 tisfactory. Engine a er Project No. 2869 as 76708 CRS VA	R0201P with new -01-16 para (b) by 30 calendar days pproved for return 9. A1R551K 8/31/2006 lours: 0
Make: Regist Right I	bove_referencet. Service al inspection hever occurrice for management of the RAM And	enced engind with 12 qts n and found rs later. Tes aintenance	TCM GTSIO-520-N the installed overhauled is. Aeroshell 100W oil at the serviceable at the flight for leak check are performed. Pertinent of the performed ited Partnership, P.O. Model: Serial #: Engine Total Hours:	turbo controller p/n 4 nd new CH48109 oil f this time. Due again in nd proper operation sa details are on file unde Box 5219, Waco, Tex 421C 421C-1213	3140-H 70836-9003, s/n TI filter. C/W AD 2000 n 50 hours TIS or 3 tisfactory. Engine a er Project No. 286 as 76708 CRS VA Date:: Total H Tach: TTSM0	R0201P with new-01-16 para (b) by 30 calendar days approved for return 9. A1R551K 8/31/2006 lours: 0 // 196.2 DH:
Make: Regist Right I Ser #: Chang	bove_reference. Service al inspection hever occurrice for management of the service for an accordance of the service for accordance of the service of the se	enced engind with 12 qts n and found rs later. Tes aintenance Aircraft, Limi	TCM GTSIO-520-N te installed overhauled s. Aeroshell 100W oil at to be serviceable at the flight for leak check are performed. Pertinent continued it the performed of the flight for leak check are performed. Pertinent of the flight for leak check are performed. Pertinent of the flight for leak check are ground run and leak of current Federal Aviation.	turbo controller p/n 4 and new CH48109 oil f this time. Due again in ad proper operation sa details are on file under Box 5219, Waco, Tex 421C 421C-1213 Il 0 al found, Install new Cohecked. I certify this ion Regulations and of	3140-H 70836-9003, s/n TI ilter. C/W AD 2000 n 50 hours TIS or 3 tisfactory. Engine a er Project No. 286 as 76708 CRS VA Date:: Total H Tach: TTSM0	R0201P with new -01-16 para (b) by 30 calendar days approved for return 9. A1R551K 8/31/2006 lours: 0 // 196.2 OH: d service with 12
Make: Regist Right I Ser #: Chang	bove_reference. Service al inspection hever occurrice for management of the service for manageme	enced engind with 12 qts n and found rs later. Tes aintenance Aircraft, Limi	TCM GTSIO-520-N the installed overhauled is. Aeroshell 100W oil at the serviceable at the flight for leak check are performed. Pertinent of the flight for leak check are performed. Pertinent of the flight for leak check are performed. Pertinent of the flight for leak check are performed. Pertinent of the flight for leak check are performed. Pertinent of the flight for leak check are performed. Pertinent of the flight flight for leak check are performed. Pertinent of the flight fl	turbo controller p/n 4 and new CH48109 oil f this time. Due again in ad proper operation sa details are on file under Box 5219, Waco, Tex 421C 421C-1213 Il 0 al found, Install new Cohecked. I certify this ion Regulations and of	3140-H 70836-9003, s/n TI ilter. C/W AD 2000 n 50 hours TIS or 3 tisfactory. Engine a er Project No. 286 as 76708 CRS VA Date:: Total H Tach: TTSM0	8/31/2006 lours: 0 // 196.2 OH: d service with 12 epaired and/or airworthy conditi

TOTALS—Carry forward to next page

DATE TIME TIME RECORD METER		TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK						
					TOTALS bro	ught forward from pre	vious page		
-	'		CESSNA	1	Model:	421C		Date::	4/13/2007
_	Make:		N876DS		Serial #:	421C-1213		Total Hours:	3204.6
	Regist	ration.	NOTODS		3. 10. 20. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.			Tach:	392.5
_	Right E Ser #:	Engine	243140-H		Engine Total Hours:	4342.6		TTSMOH:	285.6
_	plug d service part 2 hours	ue to cra ed with 1 measure TIS, Wa	acked ceraming the control of the co	ic Changed ell 100W o 020, .020 round run o n current F	d oil cut and ins oil, C/W AD# 20 o, .030, .020 fou	07-07. Compression pand test plugs, Inspect filter no metal 1007-5-15 per TCM Mand within limits due tecked. I certify this a Regulations and is the performed	found instance MSB94-4G again in 1 again engine ha determine	all new CH 481 inspection of s 00 hrs part 3 d is been inspect d to be in airwo	tarter adar lue at 400 ted and/or
			Joseph B				IA:	2226812	
	1		1	Ī	I				
			-						
			Johnson						
			Aviat	1011				5/1/08	
	•		353 Airport Tyler Texas					689.7 H: 582.8	
					N876DS E	ng. Log complished the following:			
	· ·		3. 1 4. 1 5. 6 6. 6 7. 6 I certify this	Repair broke w Replaced the no C/W AD 2007-(C/W 2000-01- Complete AD li sengine has be	16 par (b) (c) (d) (e) ist is in the Log Fold	rnator. 5 part 2 measurements .020		0.	
	+		1		+				
	_ ' _			•	4765 F Addiso (972) 2	ar Star Aviatio Frank Luke Drive In, TX 75001 167-2376			0.00
		623572	R; Engine 2, Ty	ре. Стою з	20 11101 1,				
		Fngine	time and TSMO	H Unknown tion of the Rh	engine was acco	mplished. The compress 3/80. All of the spark plu S, was installed. The m	sion was checugs were clea	cked with the followined, gapped, rotat	wing results: ted and teste
	_	72/80, f	#2: 73/80, #3: 76 w, customer sur	oplied spark p	olug, P/N URHB32	3/80. All of the spark plus, was installed. The months of the months of the spark plus of the spark pl		to the engine was	S CHECKED III

D	TOTAL TIME	TOTAL TIME	TACH OR RECORDING	Page No.
DATE	IN SERVICE	SINCE OVERHAUL	METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			,	
			4765	Clear Star Aviation LLC 5 Frank Luke Dr., Addison, Texas 75001
			470.	972-267-2376
				FAA CRS 5CSR009B
			Hobbs 973.1 T	Γ 3756.5
	TCM GTSIO:	520-N S/N 243 948 7	140-Н	
	rder: 112026	740.7.		
DU EN	CINE TON	NGINE TOM	CTCIO COON O	N 242140 LI
This En	gine was inspe	cted in accorda		our inspection; FAR Part 43 Appendix D in scope and detail to items applicable to this
aircraft,	the TCM 100	hour checklist a	and the Cessna 42	21C Series Maintenance Manual, P/N D2515-22-13 (AF) and revisions, Chapter 2. The results: #1, 66/80. #3, 66/80. #5, 66/80. #2, 10/80. #4, 65/80. #6, 67/80 psi. The oil and
filter wa	s changed and	serviced with	3 quarts of Philli	ips 15W-50 oil and a CH48108-1 filter. An oil sample was collected for analysis by
Aviation	n Oil Analysis	of Phoenix; AZ	. All spark plugs.	, P/N XLURHB32S were replaced and installed with new gaskets. Both Magnetos were aspection. The points, P/N 10-382584, condensers, P/N 10-400615, and carbon brushes,
P/N 10-	160844 were r	eplaced. The ma	agnetos were re-i	installed on the engine with new gaskets, P/N 534750 and timed in accordance with TCM
seals. T	he #6 exhaust	riser P/N 99102	295-33 was replac	emoved and re-installed after repair by Sal's Aircraft Cylinders using new gaskets and ced due to cracking. AD 2007-05-15, Starter adapter inspection, was complied with.
See	attached AD s	ummary for rec	urring time requi	rements required by this AD. See the aircraft log this date for prop governor and tach accordance with TCM SB95-2. This engine was ground run to verify performance criteria
and insp	pected for any			rectives were researched, complied with, recorded and added to the permanent Engine
records	_		/	
	Martin_	900	mans	
FAAC	RS 5CSR009B	1	, ,	
		S/N 421C1213 20-N S/N 2431	Hobbs 997.8 TT 40-H	3781.2
03-23-20	009 TSMOH 9	73.4	ovnove (BETT)	$(\mathcal{L}\mathcal{L})$
work Or	der: Owner/Op	ciator		48109-1
RH ENC	GINE: TCM EN	GINE: TCM G	TSIO-520-N S/N	1243140-Н
The follo	wing maintena and filter was cl	ance was inspect hanged and serv	ted after being periced with 12 quar	rts of Phillips 15W-50 oil and a CH48108-1 filter. This engine was ground run to verify
		d inspected for		
Russell !		Du-	made	
A&P 27	98096 IA		eroe thrift (NA SS)	
	1	1	1 1	
102/5	Coores 4310	CAL 43101313	Hobbs 1007.4.7	TT 2910 8
Engine:	TCM GTSIO	520-N S/N 243	Hobbs 1027.4 7 140-H	11 3610.6
	009 TSMOH order: Owner/O			
WOIR	idei. Owner/O	pormo:		
RH EN	GINE: TCM E	NGINE: TCM	GTSIO-520-N S/I	N 243140-H
The oil	and filter was	changed and ser	viced with 12 qu	erformed by the owner/operator. arts of Phillips 15W-50 oil and a CH48109-1 filter. This engine was ground run to verify
perform	ance criteria ar	nd inspected for	any fluid leaks.	
Russell		a m	al	
A&P 27	98096 IA			
			+ 1	

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE	TACH OR RECORDING METER		ESCRIPTION OF WORK PERFORMED— & CERTIFICATE NO. OF PERSON PERFORMING WORK
	SERVICE	OVERHAUL	TIME		
				TOTALS brought for	ward from previous page
18-09			1055.6	48109-1 51	TEL CHANGE PHICLIPS 20WS
18-09				OIL AND FILT	TER DON FONTANA DD COWNER CHANGE PHILLIPS 20050
-18-09			/086./	48/09-1 FI	TER DON FONTANA (D) (OWN
ir	late of 02/03/2	wick Vibrex 200 2009. Performe	00 balancing ge	Hobbs: 1125.6 Date: 08 ar serial number 2327 calib k on #1 Engine McCouley	ration —————
w	veight change	to Spinner bu	k head, added	ps at clock angle 6:06. Ma 24gm at 11:00 with final red equipment. This Engine, Pr	oding
	and Spinner co	mbination wa	found to be in	an airworthy condition as t	o the
4	Mital	rabove and	s returned to ser	/ 0 C	6
	Aichael P. Satt		B A&P IA		
5	ETE F	SIMO	FYS F	THE MAIN	M BETWEEN 2009.
		7.112		Car I I I	No / W Co I o Co
			•		
	<u> </u>	rtin A	<i>riation</i>	®	
-			N421SM	CESSNA 421C S/N 121	3 HOBBS 84.9
Perform	med The Follo	wing Maintena	nce Actions;		N 081-000039. Performed satisfactory operational test.
_ This air	reraft and/or o	component has	been repaired a	and inspected in accordanc rk performed and is appro	e with current Federal Air Regulations and was found to ved for return to service.
Signed	Tik (n	<u>~</u>		W.O# 17978	Dated 23/Jan/2015
- L			MA	rik Laybourne-Designated RTIN AVIATION, MAIN	TENANCE
_			19300 IK	E JONES ROAD, SANTA RS CERT.#M8VR40	
1				RS CERT #WIOV R400	, , , , , , , , , , , , , , , , , , ,
				Air 88 Inc. dba CROWN proved Repair Station #	
				753 John J. Montgomer	
				San Diego, CA 9212	3
				Jun 2 10g0, 012 7	
N421S	м			Cessna 421C	S/N: 421C1213
N421S 1-27-1	5			1 1 2	
1-27-1	5 enance Perfo	ormed:	e loses 1" of M	Cessna 421C Hobbs: 80.3 Hrs	S/N: 421C1213
1-27-1: Mainte	5 enance Perfo ustomer repo	rts R/H engin	placed induction	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' in hose with customer sup	S/N: 421C1213 Removed R/H engine cowling and found induction oplied new induction hose P/N 641739. Installed new
1-27-1: <u>Mainte</u> - Co	5 enance Perfo ustomer repo ose split. Ren	rts R/H engin moved and re- ets on hand cla	placed induction	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' in hose with customer suped. Reinstalled R/H engineration.	S/N: 421C1213 Removed R/H engine cowling and found induction uplied new induction hose P/N 641739. Installed new ne cowling.
1-27-1: <u>Mainte</u> - Ci	enance Performance	rts R/H engin moved and re- its on band cla- engine cowline	placed induction imps and torque inspected in	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' n hose with customer sup ed. Reinstalled R/H engin	S/N: 421C1213 Removed R/H engine cowling and found induction uplied new induction hose P/N 641739. Installed new ne cowling.
1-27-1: Mainte - Co he se - Re	5 enance Performance Performan	rts R/H engin moved and re- its on band cla engine cowling properly and	placed induction amps and torquents, inspected in torqued and sa	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' n hose with customer sup ed. Reinstalled R/H engin	S/N: 421C1213 Removed R/H engine cowling and found induction uplied new induction hose P/N 641739. Installed new ne cowling.
1-27-1. Mainte Characteristics References	enance Performance	rts R/H engin moved and re- its on band cla- engine cowlin properly and s and torqued	placed induction plamps and torquing, inspected in torqued and sate. Reinstalled L	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' in hose with customer suped. Reinstalled R/H engineduction hose and found affetied induction manifold/H engine cowling.	S/N: 421C1213 Removed R/H engine cowling and found induction plied new induction hose P/N 641739. Installed new ne cowling. It was installed improperly. Removed and reinstalled mounting hardware. Installed new self-locking nuts
1-27-1. Mainte Characterists Reference Reference I certifi	enance Performance	rts R/H engin moved and re- its on band cla- engine cowlin properly and s and torqued espect to the	placed induction imps and torqueng, inspected in torqued and satisfied Learning to the control of the control o	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' in hose with customer suped. Reinstalled R/H engineduction hose and found infetied induction manifold/H engine cowling. d this aircraft was repaired in the work order have	S/N: 421C1213 Removed R/H engine cowling and found induction oplied new induction hose P/N 641739. Installed new ne cowling. It was installed improperly. Removed and reinstalled impounting hardware. Installed new self-locking nuts ared and inspected in accordance with current Federal to been inspected and found to be airworthy for return
1-27-1: Mainte Chaine Re in or	enance Performance	rts R/H engin moved and re- its on band cla- engine cowlin properly and s and torqued espect to the	placed induction imps and torqueng, inspected in torqued and satisfied Learning to the control of the control o	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' in hose with customer suped. Reinstalled R/H engineduction hose and found infetied induction manifold/H engine cowling. d this aircraft was repaired in the work order have	S/N: 421C1213 Removed R/H engine cowling and found induction oplied new induction hose P/N 641739. Installed new ne cowling. It was installed improperly. Removed and reinstalled impounting hardware. Installed new self-locking nuts ared and inspected in accordance with current Federal to been inspected and found to be airworthy for return
1-27-1. Mainte Characteristics Reference I certifi	enance Performance	rts R/H engin moved and re- its on band cla- engine cowlin properly and s and torqued espect to the	placed induction amps and torquing, inspected in torqued and sate. Reinstalled L work performe	Cessna 421C Hobbs: 80.3 Hrs IAP every 1000' at 8000' in hose with customer suped. Reinstalled R/H engineduction hose and found infetied induction manifold/H engine cowling. d this aircraft was repaired in the work order have	S/N: 421C1213 Removed R/H engine cowling and found induction plied new induction hose P/N 641739. Installed new ne cowling. It was installed improperly. Removed and reinstalled mounting hardware. Installed new self-locking nuts

February 17th, 2015 N421SM Continental GTSIO-520-N S/N: 243140-H Hobbs: 100.07 Tach: 1040.56

Drained oil. Removed oil filter CH48109-1. Inspected oil filter for contamination. No abnormalities noted. Installed new oil filter CH48109-1. Took oil sample for analysis. Added 12 quarts of Aeroshell W100+. Operational check performed. No abnormalities noted. All work was performed in accordance to all current applicable service manuals. I certify this repair airworthy and return to service.

George Oesterreicher

Na

I/A 3046974

Air 88 Inc. dba CROWNAIR FAA Approved Repair Station #CWNR273K 3753 John J. Montgomery Dr. San Diego, CA 92123

N421SM 2-09-15 Cessna 421C Hobbs: 94.7 Hrs S/N: 421C1213

Maintenance Performed:

Removed and replaced R/H engine #4 EGT probe with customer supplied new P/N 86256-2.

I certify that with respect to the work performed this aircraft was repaired and inspected in accordance with current Federal Aviation Regulations. Only those items specified in the work order have been inspected and found to be airworthy for return to service. Details of the repair are on file at this Repair Station under Work Order No. PA-15-06957.

GENERAL AVIATION 340 WITHERSPOON WAY EL CAJON CA 92020 03-20-2015

Hobbs 108.0 RIGHT ENGINE LOG N421SM GTSIO 520-N S/N: 243140-H TSMOH: 1193.3

zed Representative

- Performed an Operation 1" inspection IAW Cessna 421C Progressive care Inspection guide.
- Cleaned engine and cowling.
- Removed and serviced all spark plugs.
- Removed and cleaned the fuel nozzles. Installed with new upper deck seals and o-rings.
- Removed and cleaned the fuel metering unit screen installed with a new gasket.
- Performed a compression check #1. 75 #2. 72 #3. 73 #4. 74 #5. 73 #6. 75.
- Removed and inspected the rocker arms and replaced all rocker cover gaskets.
- Tightened the clamps on engine breather hose.
- Replaced the #2 cylinder EGT probe P/N 081-000039 and CHT probe P/N 08-1000047 with new.
- Set the oil pressure down three full turns.
- · Replaced the vacuum pump with an overhaul exchange pump
- Replaced the magnetos with factory overhaul exchange magnetos and new gaskets. Left MOD # BL-349220-4 S/N F14JA183R Right MOD # BL-349260-7 S/N F14GA351R. Magnetos were timed to engine.
- Installed all new magneto drive bushings. P/N 638172
- Removed the fuel pump and throttle body / metering unit and sent to Western Skyways for bench test and repair. Installed the same unit after repair.
- Rigged the throttle and mixture control levers for proper spring back at both ends of travel.
- Adjusted the idle speed to 750 RPM and idle mixture to 30 RPM rise.
- Performed several engine power runs and adjusted the high end fuel flow to reach red line rigged the power levers to match at all power settings.
- AD 07-05-15 Starter Adapter Assembly and Crankshaft gear is due. C/W MSB 94-4G Part 2 A. 1 through 18
 Inspection / backlash measurement of dampener. All were .06 inches. Next due 100 hours 208.0 Hobbs. C/W Part 3
 IAW MSB94-4G due every 400 hours TIS next due 4512.3 TTAF.
- Engine was test ran and leak checked before test flight.
- I certify this ENGINE was inspected IAW an Operational 1" inspection per Cessna 421C progressive care
 inspection guide and was in airworthy condition

Michael Koontz Michael Koontz 1/A 564294175

e No	-	,		•			
DATE	340 WIT	AL AVIATION HERSPOON V		Hobbs 124.6		N421SM GTSIO 520-N S/N; 243140-H	₹K
	04-06-20	ON CA 92020 15		RIGHT ENGINE LOG		TSMOH:1209.9	
		sent an oil s	ample in for anal	th 12 quarts of Aeroshell 100 P ysis. A and set down the oil pressure		k and	
	:		leak checked en	gine.			
	Michael	Koontz	chula	VA 56	4294175		
	 	 	+	-		-	
		AVIATION				N421SM GTSIO 520-N	
		ERSPOON W I CA 92020	AY	Hobbs 149.0		S/N: 243140-H TSMOH: 1234.2	
	05-02-201	5		RIGHT ENGINE LOG			
	•	sent an oil sar	mple in for analy:	12 quarts of Aeroshell 100 Plusis.		and	
	:	Set up idle sp Test ran and	leak checked eng	1			
	Michael K	Coontz_	-W	I/A 564	294175		
	/			7			
		1	Т	†			
— 34 EL	ENERAL AVIA 0 WITHERSPO CAJON CA 9: -11-2015	ON WAY		bs: 159,3 HT ENGINE LOG	S/N: 2	6M 0 520-N 43140-H 0H: 1244.5	_
_	Kepiac Loosen	ed the pushrod	seals on the #1 a	n IAW Cessna Progressive Care and #3 cylinders. ottle body down to clear the cov			_
_	 I certify 	this aircraft win airworthy	vas inspected IAV	W Cessna 421C Operation #2	Progressive Care Inspection	n Program	
— Mi	chael Koontz_	m	V X	I/A 3799094			
_)			
			+	 			
	GENERAL	AVIATION				N421SM	
	340 WITH EL CAJON	ERSPOON WA	AY	Habba 140.0		GTSIO 520-N	
	05-02-2015			Hobbs 149.0 RIGHT ENGINE LOG		S/N: 243140-H TSMOH: 1234.2	
	•	Changed the o	il and filter with	12 quarts of Aeroshell 100 Plus	oil and one Filter. Took a	nd —	
	•	Set up idle spe		nd set down the oil pressure 1/2	turn.	_	
	•	. sa . an and ic	C. C			_	
	Michael Ko	ontz_M	charle	1/A 37990	094	_	
				SUB-TOTALS this page	•		
- 1				TOTALS—Carry forwar			

						Page No
DATE	GENERAL A 340 WITHER EL CAJON C 06-08-2015	SPOON WAY	;	Hobbs: 176.0 RIGHT ENGINE LOG	N421SM GTSIO 520-N S/N: 243140-H TSMOH: 1261.2	IG WORK
		placed with now			13MOH: 1261.2	
	• Tes	t ran and leak	hecked housing	housings on #1 and #3 cylinders.		
		100 A-	L W	anh		
	Michael Koon	tz (Took	1 7	I/A 3799094		
)		
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