

ENGINE MAINTENANCE RECORDS

Log No. __1__

Aircraft Registration No. N444BZ
Engine ManufacturerTC M
ModelTSIO-520-NB
Serial No
Date installed on aircraft 10-14-02
Time Between Overhauls (TBO)Hours
If used on multi-engine aircraft:
□ Right ☑ Left

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

RAM Aircraft, Limited Partnership • Waco Regional Airport

Engine Previous Total: 2800.0

Hour Meter: 1237.3

Since Major Overhaul: 00.0

Propeller Total: 00.0

Date: ____10-14-02

TCM TSIO-520-NB Series IV Left S/N 218817-R

Above referenced engine overhauled to new parts limits per FAR 43.2 (a) (1) (2) to conform with TCM SM X-30574A. 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 above referenced engine modified to TSIO-520-NB 325 HP per STC SE4327SW in left position of Cessna S/N 414-0490. See 337. Installed new RAM camshaft p/n 1058-1A, s/n G01027 per STC SE4327SW, Rev. 3. AD 97-26-17 C/W per installation of new VAR crankshaft P/N 649898 S/N N01JA184. Ultrasonic inspection per MSB96-10 due at next overhaul or when crankshaft removed. AD 99-19-01 N/A per crankshaft date of manufacture I/A/W TCM CSB99-3C. AD 2000 23-21 N/A to crankshaft serial number/date of manufacture I/A/W TCM Mandatory Service Bulletin MSB00-5C. Engine assembled with heavy style crankcase p/n 642094 modified to RAM p/n 1157-7 per STC SE3630SW. Installed new TCM Nickel cylinders. Cylinder hold-down nuts replaced and torqued per Overhaul Manual Supplement. Installed Floscan transducer per STC SE5726SW. Installed new McCauley propeller model 3AF32C515, S/N 020034. Engine accessories exchanged for remanufactured or new units except as noted. Installed new prop governor. Re-used customer's tach generator. Installed new RAM turbocharger S/N EJL1207. Installed overhauled wet vacuum pump. New Slick pressurized magnetos p/n 6320 installed per STC SE4651SW and pressurized. SB94-8A on magneto timing procedure C/W per timing to data plate TC requirements with TDC locator and protractor with pointer. Engine modified to TSIO-520-NB per Continental Service Bulletin M-75-6. AD 86-13-04 R3 n/a per new TCM cylinders installed. SA02-7 N/A per TCM cylinders installed. Installed RAM/FAA/PMA rocker arms p/n 1842-3 and 1842-4. AD 98-01-08 n/a per installation of RAM/FAA/PMA rocker arms. 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 overhauled oil cooler P/N 636900, S/N 2055. Exhaust slip joints modified per STC SA4331SW. C/W AD 78-06-01 per installation of intake tube p/n 642590. C/W AD 79-05-09 per installation of new current design oil pressure plunger assy. C/W AD 89-24-01 R1 per installation of starter adapter p/n 642085A2 with current scavenge pump gears. Category 1 thru 3 TCM Service Bulletin Compliance Listing in RAM Manual. Engine serviced with Phillips multi-grade 20W50 Type M mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. AD 76-02-07 N/A per installation of ALV9510 alternator. Above referenced engine was made eligible for 1600 hr. TBO per TCM SIL98-9 Note 2 and RAM Service Letter 89-001. All aluminum alloy engine parts were coated per RAM Specification No. 1142. Propeller balanced per Service Manual with spinner and bulkhead installed. Installed spring loaded induction clamps p/n 1170-2 per STC SE3632SW. Installed RAM-FAA-PMA rocker box cover gaskets p/n 1387-1. Installed RAM FAA-PMA oil cooler baffle P/N 1253-1. C/W AD 93-16-15 per TCM SB MSB95-6 installation of fuel pump drive coupling P/N 653359. AD 93-10-02 (MSB 93-12) N/A per new TCM cylinders installed. All engine systems checked for leaks. Engine approved for return to service for RAM Aircraft test flight procedures. Pertinent details on file under project no. 407.

 RAM Air	craft, Limite	d Partnership	Deplar Wale p, P.O. Box 5219, Waco, Texas 76708	CRS VA1R551K
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			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
Engin RAM	Series IV S	pecifications	s. Engine gr	Hour Meter:1237 SMOH: Date:10-14-4 el flow, max RPM, manifold pressure, and oil pressure adjusted pround run power test good. Details are on file under project no. 407
	RAM Ai	rcraft, Limite	ed Partners	nip, P. O. Box 5219, Waco, Texas 76708 CRS VA1R551K
				I certify this FNGINE has been inspected in accordance with a/cm IOO HE inspection and has been determined to be in an airworthy condition. Date 10-21-02 Tach 1238.8 Signed ARCRAFT, LIMITED PARTNERSHIP REPAIR STATION NO. VA1R551K
		AI	7929 Air Waco, Tex CRS No. A	port Rd. (as 76708 I certify this
				ENGINE SMOH ENGINE TT 2801-5 SIGNED AIR IMPRESSIONS, INC REPAIR STATION # AK6R541N

Av.	Approving National intern'Authority Country INCUNITED STATES			EASE CERTIFICATE DRITHINESS APPROVAL TAG	3. Form Tracking No.		
13. 14. 15. 17. USI permant	Certifies the items identicordormly for C Approved design data Non-approved design data Authorized Signature Name (Typed or Prior ERANSTALLER RESPO Voonponent/assembly, interby of the country spec- annorthmess authority of	7505 Karl M 8 Part 932 led VAVV s that the work spec component is consider in data specified in B 16 App hted) 18. Dat NSIBILITIES: It is un Where the user/trista ited in Block 1, it as it is the country specifie	Ram Aircraft, Limited Part May Dr. • PO Box 5219 • Number 9. Eliment Part Air Po Box 5219 • Number 9. Eliment Part Air Po Box 5219 • PO Box 5219 • Number 9. Eliment Part Air Po Box 5219 • Po Box 521	nership Waco, Texas 76708 gbirly 10 Gyantiy 11 Serial And any applicable RAM Aucraft ST led out in accordance with JAR 145 and vivice under JAA Acceptance Certificate Ni 14 CFR 43 9 Return to Service other Liness otherwise specified in block of in Block 13 was accomplished in accord and 43 and in respect to that work, they 20 June 1799 43 Pinned existence of this document alone does not acce with the national regulations of airworthine	CO.H. Manual Supplements. dith respect to that work the amber JAA 5208* or regulation specified in Block 13 13, the work identified in Block 12 and acc with Tale 14. Code of Federal Regulations are approved for return to service 21. Certificate Number: VA1 R551K 23. Date: (m/d/y) formatically constitute authority to install the ass authority different than the airworthness accepts parts/components/assemblies from	ED ORMING WORK	
1-22-03	1299.		Raplace I	P. 2520 ADVANIAGE AIRCRAFT SER	NSN: 0052-00-012-9005	Rivad	
			LEFT EN	FAA CRS Q2AR5 355 PINSON DRIVE, CORPU NGINE LOG ENTR REG: N444BZ	S CHRIST!, TX 71.46		C
		Replaced le P/N 63281 no. VA1RS satisfactor. The aircraft and inspect	8-11A1-OH, S/N 551K, W.O. R377 y. d. airframe, aircraft ded in accordance tion (FAA) and is a	fuel pump P/N 632818-11. A058112B overhauled by 6. Operationally checked a engine, or appliance identifies with current regulations of pproved for return to service	, S/N 1374RA with Ram Aircraft, CRS and leak checked d above, was repaired the Federal Aviation		
		Details on George H	file under Work	Order No: 5377 See Service, Inc. CRS H8M	IR479J		
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PER SIGNATURE & CERTIFICATE NO. OF PERSO	FORMED— N PERFORMING WORK
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MPRESSIONS	INC	_			Engine TT: 2972 Engine SMOII: 172 Prop TT: 172
SAE VILLEYLA C	IN SULLEY SERVICES				Hour Meter: 1409.3 Date: 12/15/2003
7929 Ain Waco, Tex CRS No. A	as 76708		RAM Serie	S IV TCM TSIO-520-NB S/N L-218817-R	

On above referenced engine, removed all cowling for 100 Hour/Annual Inspection. Cleaned and gapped spark plugs. Drained oil, installed new oil filter, and refilled engine with Aeroshell 100w oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner, and bulkhead. Inspected all fuel, oil, and hydraulic lines and fittings. Ran compression check and readings were: #1) 68/80, #2) 75/80, #3) 75/80, #4) 75/80, #5) 73/80, and #6) 75/80. C/W A.D. 2000-01-16 per para's (b), (e), and (f). (See A.D. listings.) A.D.'s researched through bi-weekly 2003-24. Above work done in accordance with TCM and Cessna 414 Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 1533.

Air Impressions, Inc. CRS# AK6R541N

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DATE	TOTAL TIME IN SERVICE	<u> </u>	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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				irport Rd.	has been
				exas 76708 AK6R541N	inspected in accordance with a 100 HR.
					Inspected in address to be in an airworthy condition.
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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
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ngine To	EFT N444 tal Time: 30	73.4	SO: 273.4	Indicated Time: 1510.7 HM W/O: 4112
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PENTIN	COMPRESS	1014		in and with a 100HC Hon VAL inspection
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72, 5.	80/72			Date 1-12 Tach reading 510.7 Total time 3,73.4
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orpus Chris	sti, TX 78406	ADVANTAGE.	S Q2AR59	FAA CRS Q2AR598N
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	ETEL	A 100HR / A	INUAL INSPEC	ECTION USING CESSNA 414 SERVICE MANUAL CHAPTER 2. 11 QTS AEROSHELL 100W OIL CLEANED, GAPPED, AND TESTED SPARKPLUGS. OR STRIKE. RESEARCHED AD'S THRU 2006-2 ISSUE. END.
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Page No. TACH OR RECORDING METER TOTAL TOTAL DESCRIPTION OF WORK PERFORMED-TIME TIME SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK DATE SINCE OVERHAUL SERVICE TOTALS brought forward from previous page PRAINSO OIL CHAINGE FETEROLS AND GROUND OPERATED, NO OIL LEAKS ADVANTAGE AIRCRAFT SERVICES, INC. FAA CRS Q2AR598N 356 PINSON DRIVE, CORPUS CHRISTI, TX 72 33 024 FAA CRS Q2AR598N 355 PINSON URIVE, CORPUS CHRISTI, TX 18405 SIGNED ENGINE LOG BOOK ENTRY Engine LEFT N444BZ TCM TSIO-520-NB S/N 218817R Date: 4/22/2008 Engine T.T:3446.2 TSO: 646.2 Indicated Time:1883.5 HM W/O: 5119 COMPLETED A 100HR / ANNUAL INSPECTION IN ACCORDANCE WITH C414 SERVICE MANUAL CHAPTER 2. CHANGED OIL AND FILTER, SERVICED 11 QTS A/S 100W OIL CLEANED, GAPPED, AND TESTED SPARK PLUGS. AD 97-26-17 TCM CRANKSHAFTS DUE AT O/H OR PROP STRIKE. REPLACED NO 1-3 CYL INJECTOR SUPPORT P/N 0750117-31. RESEARCHED AD'S THRU 2008-08 ISSUE END. DIFFERENTIAL COMPRESSION certify that this ENGINE has been inspected in accordance with a 100HE/Amore inspection 162 4-80/20 and was determined to be in airworthy condition 5.80166 168 3.80/66 6.80/ 70 Date 4-22 Juckgreading 355 Pinson Drive Corpus Christi, TX 78406 FAA CRS Q2AR598 (361) 289-1884 ADVANTAGE AIRCRAFT SERVICES, T FAA CRS Q2AR598N 355 PINSON DRIVE, CORPUS CHRISTI, TX 78406 Cleaned #2 cyl. 0 W/0516 .cs. INC ADVANTAGE SUB-TOTALS this page FAA CRS QZAK598N TOTALS—Carry torward to next page 355 PINSON DRIVE, CORPUS CHRISTI, TX 78468

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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
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- 05			verhaul 757.0	1993.3 RAM Aircraft, Limited Partnership • Waco Regional Airport
_	10 00		TOME	1 1 A Cilla
_			ICM IS	SIO-520-NB Left Engine S/N 218817-R
_ The	e above ref	erenced er	igine was o	disassembled to facilitate a case change. The engine was cleaned,
insp	pected and	reassembl	ed to servi	ce limits per TCM Overhaul Manual X-30574A. Reused crankshaft, serviceable crankcase, new lifters and main bearings. C/W MSB96-
_ can	nsnan and i Aultrasonic	rod bearing inspection	s. installed Reinstalled	cylinder assemblies. Installed accessories in their respective positions
_ with	n existina tir	ne in servi	e with the	exception of the hydraulic pump which was not installed per this work
ord	er. Flushed	oil cooler.	Flushed all	related hoses received. Serviced engine with 100W Aeroshell oil. Ran
– in t	est cell for o	one (1) hou	r. Engine is	approved for return to service for work performed. Engine preserved
per - 471		lietin SIL99	-1 temp. sto	prage up to ninety (90) days. Pertinent details on file under Project No.
47			/	Kanie Illas Illa
-,	RAM A	Aircraft, Lim	ited Partner	rship, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

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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
	TIME	TIME TIME IN SINCE	TIME TIME RECORDING



7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N Engine TT: 3556.0
Engine SMOH: 756.0
Prop TT: 756.0
Hour Meter: 1993.3
Date: 05/26/2009

TCM TS10-520-NB S/N L-218817-R

On above referenced engine, removed all cowling for 100 Hour/Annual Inspection. Installed new spark plugs. Drained oil, installed new oil filter, and refilled engine with Aeroshell 100w oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner, and bulkhead. Inspected all fuel, oil, and hydraulic lines and fittings. Ran compression check and readings were: #1) 72/80, #2) 72/80, #3) 72/80, #4) 73/80, #5) 70/80, and #6) 75/80. Troubleshot #2 CHT and replaced probe and corrected wiring. C/W A.D. 2000-01-16 per para's (b), (c), and (e). (Paragraph (b) next due at 2043.3 HM.) C/W A.D 84-26-02 per installation of new induction air filter. (Next due at 2293.3 HM.) Installed new #3 EGT probe for EDM. Engine was removed, sent to RAM for case change and re-installed in left position of 414-0490. (See RAM log entry.) A.D.'s researched through bi-weekly 2009-09. Above work done in accordance with TCM and Cessna 414 Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 2704.

Air Impressions, Inc. CRS# AK6R541N

	Air Impressions, Inc. 7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N	I certify this	
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DATE	TIME TOTAL TIME SINCE OVERHAU	METER L TIME	DESCRIPTION OF WORK PERFORMED	
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	- Lucuri	SURVICES . Inc.	ENGINE LOG BOOK ENTRY	
Engine:	LEFT N444BZ		520-NB S/N 218817-R Date: 5/28/2010	
Engine 7	r.T: 3617.8 TS	O: 817.8 Ind	dicated Time: 2055.1 HM W/O: 5646 ON USING C414 SERVICE MANUAL CHAPTER 2.	
CHANGEL	JUIL AND FILLER.	PER AICED II U	IIS AFROSHELL 100 WOLL CLEANED CHAPTER	
P/N 653877	65388 ADITISTE	T/O MAP AND	LINDERS N/A ECI CYLINDERS INSTALLED AD 09-19-07 INSTALLED 10/14/02. AD 09-24-52 TCM LIFTERS N/A BY FUEL FLOW PER RAM MANUAL SUPPLEMENT.	
RESEARCE	HED AD'S THRU 20	10-10 ISSUE	by that this ENGWE has been inspected	
Uleseban	ITITL COMPOSE	in acc	cordance with a 100th Arriel inspection	
1.00,00	THE COMPRES	SION well con	as determined to be in atmosthy condition	
6-00/0	5.807.4.2	Dules	2845 Jul reading 2055. [Joral time 56175	
	6-80/66	Signed	UI DAMAD FOR	
355 Pinson I Corpus Chri	sti, TX 78406	110111-		,
(361) 289-11	884	FAA C	GS AIRCRAFT SERVICES, INC. CRS 10 10 598N David D. Holzschub FAA CRS Q2AR598	0
		255 PINSO	DN DR Section Str. TX 78406	

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nite.	, K
	Waco Regional Airport, Waco TX 76708
Reg. #: N444BZ	Date: 11/11/13 Work Order #: 13-0804
Make: Cessi Eng:TSIO-520-NB	SAN GIRRIT P (IAN) FITT: XXXXXX TSMOH: XXXXXX
Performed annual increasion i	in accordance with FAR 43 Appendix D, Cessna 414 Maintenance
manual and TCM manuals. Po	erformed compression checks, results as follows: #1: 68/80, #2:
65/80, #3: 57/80, #4: 70/80, #5	5: 35/80 and #6: 52/80. Drained oil and changed filter. (CH48108-talled new cylinder P/N CFCN71.2BCA-221 obtained from RAM
Aircraft. Replenished oil supp	ply with 12 qts. Philips 20W50M, oil for new #5 cylinder break in.
Cleaned and gapped spark plu (b), (c) and (e), inspection of c	gs. Checked magneto timing. C/W A.D. 2001-01-16 Paragraphs exhaust system components. Installed new intake manifold flex
clbow, RAM P/N 1111-2, on i	inboard side. Washed engine. Run up checked O.K.
I certify that this engine has been insp	pected in accordance with an ANNUAL/100 Hr Inspection and has been determined
\mathcal{A}°	to be in an airworthy condition.
	Gary Drapela A&P 3542901 IA
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L ,	
DAGE	
	_
MCC	Gregor Executive Airport, McGregor TX 76657
McC	Gregor Executive Airport, McGregor TX 76657
Reg.	#: N444BZ Date: 2-9-2015 Work Order #:14-0622
Reg.	#: N444BZ Date: 2-9-2015 Work Order #:14-0622 Model: 414 Serial #: 0490 Hour Meter: 2195.8 ACTT: 7476.9
Reg. Make: Cessna 1 Eng: TS10-520	#: N444BZ Date: 2-9-2015 Work Order #:14-0622 Model: 414 Serial #: 0490 Hour Meter: 2195.8 ACTT: 7476.9 -NB S/N: 218817-R (Left) ETT: 3758.5 TSMOH: 958.5
Reg. Make: Cessna 1 Eng: TSIO-520 Performed an Annual Inspection manual, and FAR 43 Appendix	#: N444BZ Date: 2-9-2015 Work Order #:14-0622 Model: 414 Serial #: 0490 Hour Meter: 2195.8 ACTT: 7476.9 I-NB S/N: 218817-R (Left) ETT: 3758.5 TSMOH: 958.5 On as required by FAR 91.409 in accordance with the Cessna service (D. Accomplished the following items: Compressions check results: #1
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	SIGNATUR	DESCRIPTION OF WORE & CERTIFICATE NO. (ORK PERFO OF PERSON	ORMED— PERFORMING WORK	:
		1	1				-	
- - 1	EX	AS	Reg#: N Make: C Engine tac	20.000000000000000000000000000000000000	e: 4/8/2016 del:TSIO-0520-NB SMOH: 968.3	W/O: s/N: TTSN:	16-10618 218817-R 3,768.3	
- -	injector i (MS3576	nozzles, cha 9-11). C/W	anged engine AD 2001-1-	oil and filter (CH4 L6 paragraphs (B),	leaned and checke 8108 series), insta (C) and (E). Replac 250. Ground ops cl	lled new o ed 2 each	crush gasket n clamps RAM	
- - -	determi	ned to be in ork Order	ngine has been an airworth # 16-10618. www.KB	en inspected IAW any condition. Add	an annual inspecti itional details are	on file at	ras Texas Aero 2876 IA	
7 B		ි (ව	N#: N444BZ Make: Cont TTSN: 3791 Hobbs: 2228	nental Mode 3 TTSM	1. TSIO-520-NB	N/O: 17 5/N: 218 Engine Ta	817-R	
meta new Rem Com 2001 C414	I found at a left engine oved, clear pressions \$ -1-16 par (a maintena tify that the	this time. If oil filter P/ned, inspect 1. 71/80 fb, (c), and nce manualis aircraft	/N CH48108- ted and re-g \$2. 72/80 #3. (e) exhaust al. has been ins	1 and serviced engapped left engine 66/80 #4. 72/80. component insperpented IAW FAR I	open and inspected in the gasket P/N MS gine with 12 quart spark plugs. Check #5. 78/80 #6. 70/8 ction. All work do approved for return or the gap of the	s of Aero ked timing BO. Comp ne in acco O for a 10 rn to serv	shell 100W. — g. lied with AD — ordance with — 00 hr/Annual —	
– Add – _{Loui}	s Dean Z	ours	Mean Heur	lay	A&P IA 269510			

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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME		CRIPTION OF WORK ERTIFICATE NO. OF PE	PERFORMED— RSON PERFORMING WO	PRK
	TEX		N#: N444 Make: Cor TTSN: 379 Hobbs: 222	ntinental Mod 1.3 TTSN	el: 5-20-1 2 el: TSIO-520-NB MOH: 991.3	LH engine S/N: 218817-R Engine Tach: N/A	
	oil and R/ Serviced e (b), (c), ar accordance I certify the inspection Additional	R oil filter Pengine with ad (e) exhause with C41 at this airch and found details are	/N CH48108-1. In Aeroshell W100 st component in 4 maintenance maft has been instended to be airworthy a on file at Texas	nspected Removed Inspected spark pl spection. Run and nanual.	oil filter, no conta lugs. Complied wit Leak check good. art 43 appendix E pproved for retur	th AD 2001-1-16 pa All work done in O for a 100 hr/Annu In to service.	r
	MODEL	CON	ITINENTAL TSIO-520-NB	Trim-Aire Aviati	ion, Inc DATE:		7/16/2019
	S/N:		218817-R	P.O. Box 44	W.O.:		19-0163
	REG:		N4448Z	Limestone County	Airport HOBBS	i :	2269.0
	TT\$N: 38	331.9 SM	OH: 1031.9	Mexia, Texas 7 (254) 562-28	A Parameter of the second		7550.1
			6	L/H Engine Log	Entry		
			on test as follows: 57, 58,	72, 75, 76, 62.			
		ed mag timing.	•				14
			n Cli48108-1 and refille	d with Aeroshell 100W.			
		cated engine contri					11
			erk plugs p/n URHB32E. Paks found, operation nort				14
			-	nal. eviosly Complied With, AD2	010 11 04 N/A AD2012 0	1 06 N/A	- 11
				5-16-12 N/A Engine has TCM		5-00 N/A,	17
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	I certi be in a	fy that this engine		ordance with an Annual Inspe	etion and was determined to	0	H
			CHE	-TOTALS this page			

		ı	DATE: 08-19-2020
	MODEL: ISIO-520-NB	P.O. Box 447	W.O. 20-0170
	S/N- 218817-R	Limestone County Airport Mexia, Texas 76667	
l		(254) 562-2857	HOBBS: 2285.6
	TSO: 1048.9	LEFT ENGINE LOG ENTRY	ACTT: 7567.6
l		ANNUAL INSPECTION	
	2. REMOVED OIL FILT 3. REMOVED AND CL 4. C/W AD 2000-01-16 5. REPL GOVENOR G 6. REPL'D STARTER G 7. REPL'D ALT GASK 8. C/W AD 2000-01-16	D-RING; PN: MS9021-038	
	I CERTIFY THAT THIS EN IN AN AIRWORTHY C	HENRY & HENDRICKSON - A&P I	VAS DETERMINED TO BE
	Compressions: #1, 72/	Date 11-30-21 LH engine 80. #2, 68/80. #3, 68/80. #4, 76/80. #5, 74/80. #6, 76/80 spected in accordance with a 100hr/Annuakand was fo ation. Louis Dean A&P IA 3804378	I certify that und to be in a
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McGregor Executive Airport, McGregor TX 76657

Work Order: 22-1050 N444BZ Hobbs: Date: **TSOH** Engine Model: ENG SN: Position: 19 Jan 23 TCM TS10-520-NB 1077.1 2314.4 218817-R Left

Performed an Annual Inspection as required by FAR 91.409 in accordance with the Cessna 414 series service manual, TCM Engine manual, and FAR 43 Appendix D. All AD's complied with through Bi-Weekly 2023-1.

- 1) Engine compressions as follows: #1)62/80, #2)63/80, #3)70/80, #4)62/80, #5)70/80, and #6)69/80, master orifice 45.
- Removed oil filter and drained the oil. Installed a new oil filter P/N CH48108-1 and added 12 quarts of Phillips XC 20W50. Replaced drain plug crush gasket with new, PN MS35769-11.
- 3) Cleaned, gapped, and tested the spark plugs and replaced Gasket P/N M0674 (12).
- 4) Oil Leaking from LH Engine Push Rod Tubes On #1, #3, #4 and #5 Cylinders. Removed push rod tube packings. Replaced push rod tube packings with new packing and new valve cover gaskets using gasket set P/N SA520T1 (3 total) on LH engine cyl #4, cyl #3, and cyl #5IAW EMM 72-60. Installed new push rod tube packings and valve cover gaskets using gasket set P/N SA520T1. IAW EMM 72-60. Leak check required. During engine runs, ops and leak checked satisfactory.
- 5) Removed LH engine prop governor P/N DCFS290D9E-T3, S/N 010208 due to leaking from governor body. Installed repaired LH engine prop governor P/N DCFS290D9E-T3, S/N 010208. Reinstalled engine baffling panels and sealed edges. Used new prop governor gasket P/N AA9144. Ref. AMM 10-7. Needs engine run to check engine and prop rigging. During engine runs, ops and leaked check satisfactory.
- 6) Oil hoses overdue replacement. Manufacture date 12/00. Removed oil hoses on left engine and replaced with new hose (kit) P/N 1443-5L. Operational check satisfactory.
- Removed left and right engine magneto pressurization filters and replaced with two new filters P/N 1396-2. IAW AC43.13-
- Turbo charger tab washers rusted and deteriorated. Action deferred until next inspection. 8)
- 9) Complied with AD 2000-01-16 paragraphs b through g to detect and correct cracks and corrosion on the exhaust system (recurring). Removed exhaust components from left engine and forwarded to AWI to comply with inspection. Installed 1 new LH stack assy. P/N A9910295-13, 2 new slip joints P/N A9910296-7, 1 new LH elbow P/N A9910299-3, 1 new waste gate overboard tube P/N A9910299-6, I new waste gate bypass elbow P/N A9910299-5, 2 new waste gate gaskets P/N 2570-1, 1 new bypass gasket P/N 17189-200N1, 2 new end seals P/N 17189-250N1, 1 overhauled header P/N 8226-9, 2 new slip joint hardware kits P/N 1001-6, 1 new waste gate hardware kit P/N WGH8816, 1 new turbo hardware kit P/N TH448, 1 new RH stack assy. P/N A9910295-14, 1 new RH elbow P/N A9910299-4, 6 new exhaust stack gaskets P/N SA628260 on the LH engine IAW AMM 9-81. Next inspection due IAW AD 2000-01-16 column (b) January 2024 or 50 hours, whichever occurs first; IAW column c and e January 2024, IAW column g January 2035 or 10,095.5 total time. whichever occurs first. Column f N/A, no multi segment v-band clamps installed.
- 10) Comply with AD 96-12-22, to prevent loss of engine oil due to loose filter adapter (recurring). Affected oil filter adapter not installed.
- 11) Comply with AD 2022-16-03, improperly lubricated magnetos. N/A by serial number. Affected magnetos not installed.
- 12) Comply with AD 2009-19-07C2, superior air parts cylinders (recurring). N/A, affected cylinders not installed.
- 13) Comply with AD 2009-16-03, prevent separation of the cylinder head (recurring). Previously complied with.
- 14) Comply With AD 97-26-17, to prevent crankshaft failure. Previously complied with.
- 15) Comply With AD 93-08-17, oil pickup tube. Complied with at overhaul
- 16) #1 engine #1-cylinder exhaust studs broken off. Removed cyl. #1 on engine #1 and sent for repair (Sal's) IAW EMM 72-10. installed #1 cyl. on #1 engine using gasket set P/N SA520T1. Installed (3) P/N 41402-16 baffle screws during final assembly. IAW EMM 72-50. Operational check satisfactory.
- 17) Left engine cylinder #1 EGT probe split in half. Removed LH engine cyl. #1 EGT probe and replaced with new EGT probe P/N 86255. IAW AC 43.13-1B. Ops check required. Ops checked satisfactory.
- 18) LH engine exhaust outboard support bracket broken. Removed LH engine exhaust outboard support bracket and replaced with a new support bracket P/N 5250101-3 IAW AC 43.13-1B

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I certify that this engine has been inspected in accordance with an ANNUAL Inspection and has been determined to be airworthy

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Work Order: 23-0259 N444BZ										
	A/C Model:	AC SN:	Reg No:	Total Time	Hobbs:	Date:				
	Cessna 414	414-0490	N444BZ	7623.1	2341.1	1 Jun 202				
-	Performed the following maintenance IAW the Cessna	a 414 Chancello	r Service Manual	dated 1 Nov 198	34:					
	1) Prop heat indicator has no indication. Troubleshoot	ing found the pr	op deice indicator	faulty, one prop	blade R/H e	ngine (marke				
	on hub) with a faulty boot, and the brush block for the (Texas Propeller and Accessories) who agreed to war	ne R/H engine v	with two cracked t	rushes. Contact	ed propeller	overnaul sile				
L	Removed 2 brush assemblies part number RAB40012	from brush book	and replaced with	h propeller nea	ed brush block	ck assembly 0				
	R/H Engine, adjusted and secured IAW Cessna 414 M	I/M 13-60. Prope	eller Deice System	. Checked syste	m for contin	uity. Placarde				
H	propeller deice system INOP in full view of the pilo	ot. Returned aire	eraft to owner for	operation with	limitation, "	PROP DEIC				
	SYSTEM INOP".			•						
r	2) Installed new nut on seat #3, P/N: CM3224-4. IAW	Cessna 414 AN	1M 25-20.							
L	3) Re-attached #4 seat trim with new hardware reference AC 43.13-1B, hardware form free stock. 4) Pilot's altitude indicator tumbled in flight. Removed along shield. Removed pilot's attitude indicator and hench tested test.									
	4) Pilot's altitude indicator tumbled in flight. Removed glare shield. Removed pilot's attitude indicator and bench tested, test satisfactory. Reinstalled pilot's attitude indicator IAW Cessna 414 Service Manual section 12 page 12-11. Work performed by									
-	Josh Graf. Reinstalled glare shield.	CC33114 4 14 3C1	vice ivianual seen	on 12 page 12-1	1. Work per	tomica oy				
	5) Oil leaking from LH engine. Degreased L/H engine	e and dried it off	. Ran engine and	checked for oil le	eaks. Leak c	hecked				
H	satisfactory.		· ·							
	6) When switched from main to aux, L&R aux fuel pu									
	pumps have failed. De-fueled LH and RH aux fuel tan aux fuel pump P/N: A8150-B S/N: 103878. Installed I									
L	fuel pump P/N: P/N: A8150-B S/N: 103878. Installed in									
1	came on and no breakers popped. Ref aircraft service	manual 11-14. I	eaks check satisfa	actory. Access p	anels to pum	ps closed up.				
H	7) Masked under wing area. Cleaned area and prepped	d for paint. Paint	ed area white IAV	V AC 43.13-1B	Chapter 2, S	ection 2.				
	8) LH inboard cowl flap actuator disconnected. Recor	nnected L/H inbo	oard cowl flap acti	tator rod. Ops cl	necked cowl	flaps for				
	proper rigging. Ops checked good. Ref. AMM Section 9) Tail nav light inop. Removed tail nav light lens. Re	n 9-12.	ive CE207 bulb a	ad replaced with	new GF307	hulb Ons				
-	checked satisfactory. Reinstalled tail nav light lens.	emoved moperat	ive OE307 build ai	ia replacea wiai	new GESO7	builo. Ops				
ı	10) R/H wing access panel screw nut plates, stripped	out and one mis	sing. Drilled out st	ripped studs. Dr	illed out dan	naged				
\vdash	nutplates and installed new nutplates part number MS	21050L3. Ref. A	AC43.13-1B 4-57.							
L										
	For work performed and recorded	above, this aircra	it is approved for re	tum to service.						
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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
N. 75				TOTALS brought forward from previous page



7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N Engine TT: 3917.6
Engine SMOII: 1117.6 (10/02)
Prop SMOH: 40.5 (1/23)
Hour Meter: 2354.9
Date: 02/01/2024

Continental TSIO-520-NB RAM SIV S/N L-218817-R

On above referenced engine, removed all cowling for 100 Hour/Annual Inspection. Cleaned and gapped spark plugs. Drained oil, installed new oil filter, and refilled engine with Phillips XC 20W-50 oil. Checked magneto timing. Inspected plug harness and all engine electrical. Checked all engine controls for movement and attach points. Inspected intake and exhaust system, condition and integrity of all engine accessories. Inspected engine mounts, all baffles and cowling. Inspected prop, spinner, and bulkhead. Inspected all fuel, oil, and hydraulic lines and fittings. Ran compression check and readings were: #1) 71/80, #2) 70/80, #3) 60/80, #4) 74/80, #5) 75/80, and #6) 72/80. Installed new lifters, P/N's SA646277 and SA628488. C/W A.D. 2000-01-16 per para's (b), (c), (d) and (e). (Paragraph (b) next due at 2404.9 HM.) Installed new overboard exhaust pipe. Cleaned induction air filter. Resealed fuel control unit. Performed set-up of systems per service manual and RAM Specs. Installed new studs as needed at #6-cylinder. A.D.'s researched through bi-weekly 2024-01. Above work done in accordance with Continental and Cessna 414 Service Manuals and Air Impressions, Inc. 100 Hour/Annual Checklist. Engine ground run-up leak checked good and approved for return to service. Pertinent details are on file under work order 58/15.

Air Impressions ACCRS# AKGR541N

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