



AIRFRAME MAINTENANCE RECORDS

Log No. 5

Aircraft Registration No. N1557T

Model 414 Serial No. 414-0272

Waco Regional Airport 7505 Karl May Drive • P.O. Box 5219 • Waco, Texas 76708 Phone: (254) 752-8381 Fax: 254-752-3307

www.ramaircraft.com

Page	No	
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DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

Date	Total Time In Service	Recording Meter Time
12/18/	7022.3	397.4



RAM Aircraft, Limited Partnership • Waco Regional Airport

Above referenced aircraft modified per installation of STC SE4327SW-D 335 HP engines. Installed intercooler scoops per STC SA8054SW-D. Installed RAM FAA PMA nose bowls. Increased maximum takeoff weight to 6765 lbs per STC SA8424SW-D. Flight Manual Supplement FM1030 Rev. B installed in aircraft. See 337 and attached form 8110-3 for approval of compatibility with vortex generators previously installed per STC SA800024SE. Installed RAM overhauled engines L-504184 and R-514737. Installed new Hartzell ScimitarPlus propellers, left s/n EB8401B, right s/n EB8403B. 78" propellers approved I/A/W STC SA8424SW-D. Installed RAM FAA-PMA 1719-3 synchrophase system. Transducer installation per STC SE5726SW-D. Slick pressurized magnetos p/n 6320 installed per STC SE4651SW-D. See 337. Installed red silicone impregnated fiberglass baffle material on each engine. FAA-PMA replacement baffles. Installed new airspeed indicators and re-marked tachometer, manifold pressure gauge, 3-in-1 gauges per STC requirements. Static system tested per FAR 91.411, para A 2. C/W AD2000-01-16 by removal of the exhaust system from the slip joints aft. Installed the following exhaust system components:

Left Engine	P/N	S/N		Replacement due/ACTT
Wye	9910299-8AW	1-15768	RE-INSTALLED	9-1-2027/9488.7
Left Elbow	A9910299-3I	73146	NEW	1-1-2032/9522.3
Elbow Clantp	2274-20	N/A	NEW	1-1-2032/9522.3
Right Elbow	A9910299-4I	73148	NEW	1-1-2032/9522.3
Elbow Clamp	2274-20	N/A	NEW	1-1-2032/9522.3
Wastegate Elbow	K9910299-5	235534	RE-INSTALLED	9-1-2027/9488.7
Wastegate Clamp	2271-200	N/A	NEW	7522.3
Wastegate Tailpipe	K9910299-6	242697	RE-INSTALLED	9-1-2027/9488.7
Overboard Tailpipe	K9910299-1	244618	RE-INSTALLED	9-1-2027/9488.7
Tailpipe Clamp	NH1000897-50	N/A	RE-INSTALLED	9-1-2027/9488.7
Left Riser Assy	UNKNOWN	UNKNOWN	CLEANED AND INSPECTED*	N/A
Right Riser Assy	A9910295-14	78395	NEW	N/A
Wastegate	470908-9012	FLL00268	OVERHAULED	N/A
Turbocharger	407810-0003	H-WIL00025	NEW	N/A
Slip Joints	1001-3	N/A	NEW	1-1-2032/9522.3
Right Engine	P/N	S/N		Replacement due/ACTT
Wye	9910299-8AW	1-15769	RE-INSTALLED	9-1-2027/9488.7
Left Elbow	A9910299-3I	79127	NEW	1-1-2032/9522.3
Elbow Clamp	UNKNOWN	N/A	RE-INSTALLED	10-1-2028/9500.2
Right Elbow	A9910299-4I	73147	NEW	1-1-2032/9522.3
Elbow Clamp	UNKNOWN	N/A	RE-INSTALLED	10-1-2028/9500.2
Wastegate Elbow	K9910299-5	235535	RE-INSTALLED	9-1-2027/9488.7
Wastegate Clamp	UNKNOWN	N/A	RE-INSTALLED	7500.2
Wastegate Tailpipe	K9910299-6	240770	RE-INSTALLED	9-1-2027/9488.7
Overboard Tailpipe	K9910299-2	244644	RE-INSTALLED	9-1-2027/9488.7
Tailpipe Clamp	UNKNOWN	N/A	RE-INSTALLED	10-1-2028/9500.2
Left Riser Assy	UNKNOWN	UNKNOWN	CLEANED AND INSPECTED*	N/A
Right Riser Assy	A9910295-14	80823	NEW	N/A
Wastegate	470908-9013	DF008343	OVERHAULED	N/A
Turbocharger	407810-0003	H-WIL00024	NEW	N/A
Slip Joints	1001-3	N/A	NEW	1-1-2032/9522.3

*Cleaned, inspected and joints re-swedged.

Hartzell ASB No. 057 N/A per turbocharger date of manufacture/rebuild. C/W para (b) by visual inspection and found to be serviceable. Next visual inspection per para (b) due in 50 hours TIS or 30 calendar days, whichever occurs later. C/W para (c) by removal and visual inspection of exhaust tailpipes and found to be serviceable at this time. Next removal and visual inspection per para (c) due each 12 calendar months. C/W para (d) by inspection of the outboard engine beams and canted bulkheads. Removed and replaced left front and aft bulkhead, replaced aft bulkhead inboard doubler. Removed and replaced left hand inboard beam. Left hand p/n TAM0851121-102, s/n 0135. Removed and replaced right hand aft bulkhead and aft inboard doubler. Removed and replaced right hand inboard beam. Right hand p/n TAM0851121-101, s/n 0141. Replaced left hand and right hand turbo mount bracket. Re-inspection per para (d) due each 500 hours TIS. C/W para (e) by visual inspection and pressure test of exhaust systems due each 12 calendar months. System checked satisfactory at this time. Para (f) installed new clamp on left hand, replacement due at AFTT 7522.3. Re-used right hand clamp, replacement due at AFTT 7500.2. C/W para (g) by installing new and/or re-installed existing exhaust system from the slip joints aft. Repetitive compliance due at 2,500 hours TIS or 12 years from date of installation, whichever occurs first. Installed new Aeroquip integral firesleeved fuel and oil hoses meeting TSO-C53A Type D and TSO-C75 Type III on each engine. C/W MEB00-9 by installation of p/n 2530-1 vent tube in crankcase breather hose. Installed new Hartzell ALV9610 alternator on right engine. See new empty weight and balance in POH. Installed new prop de-ice brush block p/n 40189 on right engine. AD96-12-22 N/A to oil filter adapter installed. Installed new cabin pressurization ducts p/n CM3211-10B9.5 and CM3211-10B38.0 in left and right wings. Removed previously installed "Brackett" air filters which are NOT compatible with RAM STC's. C/W AD84-26-02 per replacement of air filters. RAM Aircraft recommends air filters to be replaced every 300 hours or annual with mandatory log entry required. Installed new air/oil separators p/n AM107935AO on left and right engines. Installed EZ Heat Preheat Kit, m/n 540 on both engines. New empty weight and balance computed. Aircraft is approved for return to service for the work performed. Pertinent details on file under Project No. 9243.

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

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME
CAN	Reg. #:	N1557T	Date:
TION	Make: HMT:	Cessna 403.2	Mode

Pilot's Altimeter Part Number 5934A-A69 Scale Correction Card Serial Number 90704 Standrd Alt. Ft Altimeter Rdg Standrd Alt. FT Altimeter Rdg -1000 -5 16000 -65 -10 0 18000 -65 0 500 20000 -80 -15 -90 1000 22000 -5 -120 25000 1500 -15 30000 -110 2000 3000 -10 35000 хx -5 40000 4000 XX -10 45000 6000 XX -30 47000 8000 XX -40 50000 10000 XX -60 51000 12000 XX -70 14000 A/C Reg. # N1557T 12/31/2019 DUNCAN Tested by: Wallace AVIATION

The following was performed by Duncan Aviation under wo

 Tested and inspected the pilot/copilot static pressure systems system IAW Title 14 CFR Part 91.411 and ATC transponder te found to comply with Title 14 CFR Part 43, Appendices E & F.

Pilot altimeter - United P/N 5934A-A69 S/N 90704.

Copilot altimeter - United P/N 5934PA-3 S/N 433833.
 Encoder - Trans Cal Ind P/N SSD120-XXA S/N A70480.

Transponder - Garmin GTX-330 P/N 011-00455-00 S/N 84127080.

Units tested to 30,000 ft. on 31 Dec 2019.

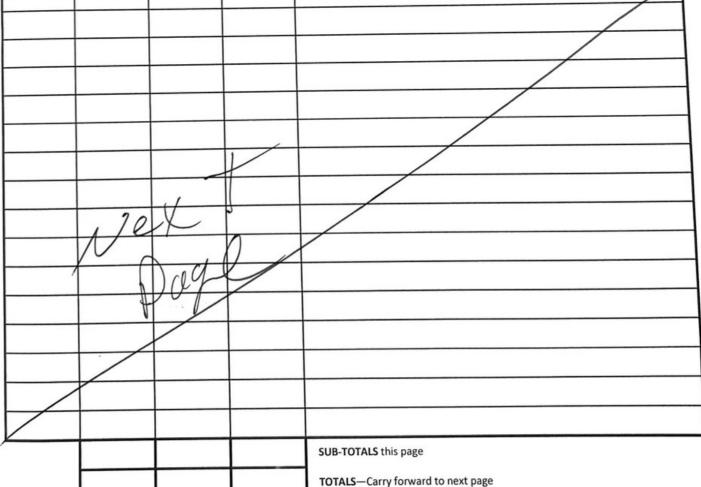
I certify this aircraft has been inspected in accordance with **Title 14 CFR 91.411 and 91.413** and is approved for return to service. A detailed record is on file under work order **WU2NA**.

Signed:



Duncan QI 1443

For Duncan Aviation Repair Station JGVR194F Phone: 800-228-4277



			The Avior	nics Place, LLC		DATE
REG.	N1557T	B	eatrice Muni	cipal Airport [KBIE	7	DATE 8/JAN/2020
MAKE	Cessna	MODEL	414	SERIAL NO.	414-272	HOUR 408.1

Maintenance Record Airrrame
Removed Garmin GTX330 transponder P/N:011-00455-00 S/N: 84127080 and associated mounting

2. Installed new Garmin GTX345 transponder P/N: 011-03302-00 S/N: 3EG031327 into instrument panel radio stack at F.S. 110.50 using supplied mount and hardware Referencing Garmin Part 23 AML STC

Power for newly installed transponder is bussed from the existing avionics buss using existing

Newly installed transponder is interfaced with the existing GNS 530W GPS/NAV/COM, PS Engineering PMA6000M audio panel, and blind altitude encoder for ADS-B compliance, display or traffic and weather, audio annunciations, traffic correlation, and pressure altitude referencing Garmin GTX3XX/33X Part 23 AML STC Installation Manual No. 190-00734-10 Rev. (13) dated September

5. Installation accomplished in accordance with AC 43.13-2B Chapters 3,11,12 Sections 201,202,203,204,205,206,207,208,209,210 and reference to AC 43.13 chapter 4, 7, 11, 12, and Garmin Part 23 AML STC Installation Manual No. 190-00734-10 Revision 13 Dated September 2019.

Performed electrical load analysis the newly installed equipment does not exceed 80% Buss Capacity. Performed functional tests referencing manufactures installation manual with satisfactory results,

newly installed equipment does not interfere with existing equipment.

Updated aircraft weight and balance and equipment list to reflect newly installed equipment.

9. Inserted Garmin GTX33X and GTX 3X5 Transponders with ADS-B, FAA Approved Airplane Flight Manual Supplement No. 190-00734-15 Rev. 4 Dated September 9, 2019 into aircraft flight manual. See this or later revision.

10. Provided a copy of Garmin GTX33X and GTX3X5 Instructions for Continued Airworthiness, Part 23 AML STC Document No. 190-00734-11 Rev. 7 Dated September 9, 2019 in the aircraft permanent records. See this or later revision.

See FAA Form 337 Dated January 8, 2020 for details of this modification.

The work identified above was performed and inspected in accordance with current (CFR) Code of Federal Aviation Regulations Title 14 and was determined to be in condition for safe operation.

A&P 2862574IA

SO#	20-0006		Elevate A.	ir Services LLC.		DATE	4/FEB/2020
REG.	N1557T		Crete Munic	ipal A!rport [CEK]		HOUR	453.8
MAKE	CESSNA	MODEL	414	SERIAL NO.	414-0272	ACTT	7078.7

Maintenance Record Airframe

Removed Pilots Altimeter P/N 5934A-A69 S/N 90704 and installed Overhauled Altimeter P/N 5934PA-1 S/N 6C361. Reference Aircraft Quality Instruments form 8130-3 FTN 53963 dated 29/Jan/2020 for work

Removed Co-pilots Altimeter P/N 5934PA-3 S/N 433833 and installed Overhauled Altimeter P/N 5934PA-1 S/N P517. Reference Aircraft Quality Instruments form 8130 FTN 53963 dated 29/Jan/2020 for work

Customer Squawk was that flaps would not retrack. Upon investigation, found that wires were broke off on flap switch under co-pilots panel. Repaired wiring, function test is normal.

Dated: 1/20/20 Shop Order: 20-0006

Shaun Krzycki A&P 3624942

	g 5	Change Control	Elevate Air	Services LLC.		DATE	6/NOV/2020	
	§ #		Crete Munici	pal Airport [CEP	()	HOUR	556.4	7
	Contractinvoice		414	SERIAL NO.	414-0272	TACH		
1	3/ AA	MODEL			1			
1 /								IG WORK
-	Maintenance R	ecord Airfra	me	erence the Cessna ppendix D. ear of R/H fuel pump	Model 414 Service	e Manual Se	ction 2A and	
	Maintenance N	Annual Inspe	ction/100 Hour refe 14 CFR Part 43 Affuel fitting on the re	ppendix D.				
/ .	Complied with	detail of Title	14 CFR Part 46	ppendix D. ear of R/H fuel pump mbustion blower ass N 1180. See FAA foor work accomplish). embly D/N EC71	2420 4 C/N	IC2 and	
	penlaced o-rin	g on leaking	bin heater and con	nbustion blower ass N 1180. See FAA fo or work accomplish	rm 8130-3 from	Aircraft Heati	ng and	
2	Replaced the it	noperative of	nit P/N 8472C/E S/I	N 1180. See FAA for work accomplish	ed. Function test	ed unit, worki	ng properly.	
-	- alaced Willi		-tod 70/0/0/2020	01 110				-
	Electrical, Inc I Resealed both	main landing	gear struts.					
4	Resealed both Re-rigged the	flaps to spec	brake cable.	D/N 2680234M1-	13 S/N 264 with o	overhauled u	nit P/N	
5	Secured the ic	leaking fuel v	alve in the R/H will	ig P/N 2680234M1- shed, reference FAA	form 8130-3 fro	m the Aviatio	n Group, Inc	
7.	Replaced the	3 S/N 4635. I	For work accomplis	ig P/N 2680234M1- shed, reference FAA mplished. ere broken or bent.				
	ETN 49562 da	ted 13/Nov/2	For work accomplishing the sound of the soun	ere broken or bent.				
8	Denlaced the	Denic oc	alvas					
9	Cleaned the C	le seal on co	-pilot firewall that w	and wing, P/N C592	001-0201.			
10	Replaced the	broken static	wick on the L/H ha	ras missing. and wing, P/N C592	and babied the	instrument n	anel	
11	Sealed a leaf	king nut plate	that was chafing o	on the elevator bell of	rank behind the	mstrument p	ario.	
12 13	Resealed the	e wire bundle	nper.	on the elevator bell				
14	Resealed the	th brake disc	nper. s that were worn be theel bearings that	eyond limits were extremely wat hat was leaking.	er marked.			
15	Replaced the	e nose gear w	heel bearings that	hat was leaking.				
16	1.11 - 1.76	Lagar well tue	el bumb same					
17. R	eplaced the Life acreased the su	ction system.	bath olevators tha	at were missing.				
18. II	eplaced the mi	ddle hinges o	n both elevators tha				2750700000000000000000	
as determine ated Novem	Shaun Krzycki A&P 3624942	der <u>20-0056</u>	spected in accordance with	th an <u>Annual/100 Hour</u> ins			_	
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gned	Shaun Krzycki A&P 3624942	der <u>20-0056</u>				DATE	22/NOV/2021	
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Reg. #: Ma

N1557T

Date:

February 03, 2022

Work Order.

L2SLA



Air

G WORK

ike:	CESSNA	Model:	414
craft S/N:	414-0272	9.00	
	414-02/2	HMT:	775.7

Performed the following	general	maintenance under work order L2	SI A.
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 Tested and inspected the pilot's and copilot's static pressure systems, altimeters and automatic pressure altitude reporting system IAW Title 14 CFR Part 91.411 and ATC transponder tests and inspections IAW Title 14 CFR Part 91.413 and was found to comply with Title 14 CFR Part 43, Appendices E & F.

o Pilot's Altimeter - United P/N 5934PA-1 S/N P517

o Copilot's Altimeter - United P/N 5934PA-1 S/N 6C361

Encoder - Trans Cal Ind P/N SSD120-XXA S/N A70480

Transponder - Garmin GTX-345 P/N 011-03302-00 S/N 3EG031327

o Units tested to 30,000 feet on 03 Feb 2022.

I certify this aircraft has been inspected in accordance with Title 14 CFR 91.411 and 91.413 and is approved for return to service. A detailed record is on file under work order L2SLA.

Signed:



Duncan Ol 1443

For Duncan Aviation Repair Station JGVR194F Phone: 800-228-4277

SO#	22-0080	Elevate Air Services LLC.			DATE	13/JAN/2023	
REG.	N1557T		Crete Munic	ipal Airport [CEK]		HOUR	807.5
MAKE	CESSNA	MODEL	414	SERIAL NO.	414-0272	ACTT	7368.0

Maintenance Record Airframe

- Complied with Annual Inspection/100 Hour reference the Cessna Model 414 Service Manual Section 2A and the scope and detail of Title 14 CFR Part 43 Appendix D.
- Complied with 12-month battery capacity check, battery passed at 104%.
- Complied with 12-month ELT inspection IAW FAR 91-207(d). ELT functions normal. Replaced battery with new P/N 2020. Next battery change due December 2024.
- Replaced both gyro filters in wing roots with new P/N B3-5-1.
- Troubleshoot the left-hand engine RPM gauge inoperative to faulty wiring at tach generator connector.
- Replaced the amp gauge selector switch with new P/N 5018153-1. Post item change inspection found to be in working order.
- Replaced the left-hand fuel boost pump that was leaking internally with new overhauled pump P/N 4140-00-153 S/N 28608. See 8130-3 FTN: M2107249 from Aeromotors, LLC dated 05/AUG/2021 for work accomplished.
- Replaced both fuel selector valves with the following overhauled part numbers; left side P/N XV2096 S/N 091622, and the right side with P/N 2680234M1-13 S/N 3642A. See 8130-3's from The Aviation Group FTN's 53372, dated 21/SEP/2022 and 52796, dated 12/APR/2022 for work accomplished.
- Replaced the leaking auxiliary fuel pump with a new overhauled unit P/N 8150-B S/N 05296. See Aeromotors 8130-3 FTN: M2210018, dated 06/OCT/2022 for work accomplished. Also replaced leaking fuel fitting at the auxiliary fuel pump pressure switch at this time.

Leartify this (aircraft) (engine) (propeller) has been inspected in accordance with an Annual/100 Hour inspection as per Title 14 CFR part 91.409 (a) (1) and was determined to be in an airworthy condition. Dated January 13, 2023 Shop Order: 22-0080

Shadn Krzycki A&P 3624942IA

SUB-TOTALS this page



TOTALS—Carry forward to next page