N2702L

1981 Cessna 414A Ram IV

#2 (RH) Engine Logbook SMOH 2016 - 2022

Aircraft S/N: 414A-0608



Prepared by the worldwide aviation specialists at RidgeAire, Inc.

MENA AIRCRAFT ENGINES, INC

ENGINE MAINTENANCE RECORDS

Aircraft Registration __N2702L **Engine Position**

Engine Serial No. R-521612

MENA AIRCRAFT ENGINES, INC

ENGINE MAINTENANCE RECORDS

Log No.

Aircraft Registration No
· ·
Engine Manufacturer
Model
Serial No. <u>R-521612</u>
Date installed on aircraft 7-29-16
Time Between Overhauls (TBO) 1600 Hours
If used on multi-engine aircraft:
∄ Right □ Left

103 Aviation Lane, Mena, AR 71953 479-394-7688

MENA AIRCRAFT ENGINES, INC. - - FAA CRS#S9QR340N

Date: July 5, 2016 Engine Total Time: hrs Time Since Major Overhaul: 00.00 Engine Data: Teledyne-Continental engine model TSIO-520-NB Serial Number: 521612 RH Aircraft Data: Cessna model 414A Serial Number: 414A0608 Registration #2702L 1980

WORK PERFORMED: inspected and major overhauled in accordance with Teledyne-Continental overhaul manual #X30574A, Teledyne-Continental parts catalog #X30580A, and to RAM Aircraft specifications for RAM IV engine.

COMPONENTS

- <u>crankshaft/counterweight assembly(TCM s/n G139408N):</u> magnafluxed, inspected, rods and mains ground to M010, renitrided, polished journals, cadmium plated and baked flange, rebushed damper blades, rebushed counterweights and installed with new pins, plates, and snap rings, ultra-sonic inspected i/a/w TCM mandatory service bulletin #MSB96-10, crank complies with AD#97-26-17 as VAR, dynamically balanced per procedure #98-002, and certified by Aircraft Specialties of Tulsa, OK w/o 236937 FAA CRS#DD2R764K.,
- connecting rods(6): magnafluxed, inspected, resized, rebushed, balanced, and certified by Aircraft Specialties of Tulsa, OK w/o 236937 FAA CRS#DD2R764K
- <u>camshaft:</u> RAM p/n 1058-3 magnafluxed, inspected, reground, manganese phosphate coated, and certified by Aircraft Specialties of Tulsa, OK w/o 236937 FAA CRS#DD2R764K.
- internal steel(28): cleaned, magnafluxed, inspected, and certified by Aircraft Specialties of Tulsa, OK w/o 236937 FAA CRS#DD2R764K.
- hydraulic valve lifters(12): TCM part number 646277 inspected, repaired i/a/w procedure #2002-01, flow matched, and certified by Aircraft Specialties of Tulsa, OK w/o 236937 FAA CRS#DD2R764K.

COMPONENTS CONTINUED

- crankcase: casting #646201, match #860226P cleaned, zygloed, inspected, repaired, surfaced, thru-bolt dowels installed, align-bored, stress relieved, and certified by DivCo of Tulsa, OK w/o WDC#117038 FAA CRS#DB2R762K.
- cylinders(6): replaced with new CMI balanced cylinder assemblies p/n 658552A2-SPC complete with valves, springs, keepers, roto-coils, rocker shafts, pistons, and piston rings, purchased from A.E.R.O. of Granite City, IL sales order #B83710-1 dated 06/14/2016.
- <u>valve rocker arms(12):</u> magnafluxed, inspected, refaced, rebushed, and certified by Aircraft Specialties of Tulsa, OK w/o 236937 FAA CRS#DD2R764K.
- assembling hardware: bright cadmium plated i/a/w UPW SP-01 Rev B class3 type II, actual thickness .00035-.00045, hydrogen embrittlement relieve baked @375 +/- 25 degrees F for 3 hours min/no max, i/a/w UPW SP-17 Rev G & UPW SP-01 Rev B, and certified by United Plating Works of Tulsa, OK w/o 458576 FAA CRS#FA2R813K.

ACCESSORIES

- magneto(LH): p/n 6320, s/n 15060074, mfg. Slick cleaned, inspected, repaired, tested, and certified by Mena Aircraft Engines, Inc. of Mena, AR w/o 2146A FAA CRS#S9QR340N.
- magneto(RH): p/n 6320, s/n 15060076, mfg. Slick cleaned, inspected, repaired, tested, and certified by Mena Aircraft Engines, Inc. of Mena, AR w/o 2146B FAA CRS#S9QR340N.
- starter: p/n MHJ4003, s/n A140528,mfg. Prestolite–inspected, overhauled, tested, and certified by Aerotech of Louisville, KY w/o 118244 FAA CRS#PU4R453M.

ACCESSORIES CONTINUED

365 FAA CRS#1GPR022B.

- <u>alternator:</u> p/n 649304, s/n 007KA203, mfg. CMI inspected, overhauled, tested, and certified by Aerotech of Louisville, KY 40299 w/o 118243 FAA CRS#PU4R453M.
- alternator drive coupling: p/n 646655, s/n DRK118794, mfg. CMI inspected, overhauled, tested, and certified by Drake Air of Tulsa, OK w/o 496313/006394 FAA CRS#II2R899K
- fuel injection system: fuel pump p/n 632818-11, s/n B108710RB; flow divider p/n 640718-2A4, s/n C242102C; control valve p/n 632916-11, s/n J048006A: fuel nozzles(6) p/n 632748-14D, and pressure limiter p/n 642100-5/6, s/n 496080; inspected, overhauled, bench tested, and certified by Great Planes Fuel Metering of Tulsa, OK w/o 16-
- starter adapter assembly: p/n 642085A2R, s/n CAS-3075, mfg. TCM inspected, overhauled, and certified by Custom Airmotive of Tulsa, OK w/o 25067 FAA CRS#DC2R763K.
- oil cooler: p/n 636900, s/n 35962, mfg. TCM inspected, overhauled, tested, and certified by American Cooler Service of Arlington, TX w/o 59112 FAA CRS#OC8R986J.
- tach generator: p/n 22A667, s/n AT-9247 inspected, overhauled, tested, and certified by Quality Aircraft Accessories of Tulsa, OK w/o 015384 FAA CRS#QY1R334Y.
- <u>propeller governor:</u> p/n A210710, s/n 2129079U, mfg. Woodward inspected, overhauled, tested, and certified by South Coast Propeller Service of Bessemer, AL w/o SR-10979 FAA CRS# S6PR302X.
- by Main Turbo Systems of Visalia, CA w/o 40917 FAA CRS#MAMR190K. installed by engine installer, RH position Cessna 414A N2702L.

NEW PARTS INSTALLED

Major overhaul gasket and seal set, crankshaft oil seal p/n 641250, crankshaft damper bushings, counterweight bushings, counterweight pins, plates, and snap rings, connecting rod bushings, connecting rod nuts, connecting rod bearings M010, alternator face gear screws and lockplates, crankshaft attaching screws, camshaft gear attaching screws, cam gear woodruff key, crankcase thru-bolt dowels and o rings, starter adapter pilot needle bearing, piston pins, Continental steel cylinder assemblies with valves, springs, retainers, keepers, roto-coils, valve rocker shafts, rocker shaft bolts and washers, pistons, and piston rings, valve rocker arm bushings, silicone valve cover gaskets, Real Gasket push rod seal kit, 12-point cylinder base nuts, spark plugs p/n URHB32E, ignition harness, fuel pump drive coupling p/ 653359, magneto drive cushions, oil pressure kit, oil pressure relief valve plunger, nose seal retaining plates, induction tube hoses and clamps, internal crankcase nuts, dipstick housing adapter o rings, crankcase thrubolts, magneto attaching nuts, oil filter p/n 48108-1, upper deck tube seals, fuel nozzle rubber and steel washers, oil temperature vernatherm valve, main bearing set M010, oil transfer collar M010, supplied exhaust nuts and gaskets.

Engine Test Run and Sign-Off: this engine overhauled and test run in accordance with current and applicable FAA data and procedures and is approved for return to service, pertinent details of the overhaul are on file at this repair station#S9QR340N under work order #16E-2146 by Mena Aircraft Engines, Inc. of Mena, AR Kolumbur H2549814 July 05, 2016 see back of this engine log book for listing of A.D.'s complied with.

Airworthiness Directives complied with during engine overhaul

#75-05-09	oil pressure relief valve	c/w by installation of new correct parts
#80-01-04	cylinder flanges	c/w by installation of new cylinders
#81-24-06	fuel pump	c/w by overhaul of fuel pump
#86-13-04-R3	cylinders	c/w by installation of new cylinders
#89-24-01 R1	scavenge pump gears	c/w by inspection, has correct serviceable gears
#93-10-02	cylinder valve key	c/w by inspection, all keepers installed
#93-16-15	fuel pump coupling	c/w by installation of new coupling p/n 653359
#96-12-22	oil filter adapter	n/a by inspection, has integral TCM adapter
#97-26-17	crankshaft	c/w by inspection, has VAR crankshaft
#98-01-08	roller rocker arms	n/a by inspection, has genuine TCM rocker arms
#98-17-11	crankshaft	n/a by inspection and date parameters
#99-19-01	crankshaft	n/a by inspection and date parameters
#00-23-21	crankshaft	n/a by inspection and date parameters
#04-08-10	ECI cylinders	c/w by installation of new CMI cylinders
#07-04-19 R1	SAP cylinders	n/a by inspection, has new CMI cylinders
#07-16-10	turbocharger	n/a by inspection, part number, and date parameters
#08-08-17	turbocharger	n/a by inspection and part number
#09-19-07	TCM cylinders	n/;a by inspection, had new correct CMI cylinders
#10-11-04	hydraulic lifters	n/a by inspection, has p/n 646277
#12-063-06	AFS diaphragm	n/a by control valve part number
#12-10-13	starter adapter	n/a by adapter part number
#14-05-29	SAP cylinders	n/a by inspection, has CMI cylinders
Mena Aircrast Engines,	Inc. – FAA CRS#S9QR340N – w/o 2146	Die Carl

Fwelve Stone Aviation, LLC.	802 Airport Rd. Han	gar 5 Springdale, AR 72764
EGISTRATION: N2702L	HOBBS: 484.6	DATE: 07/29/2016
MODEL: TSIO-520-NB	ENGINE TSMO: 00 0 RIGHT SIDE	SN: 521612
GROUND RUN, ALL OPS N	CTT 6903.1 OR 02-13-18. NO DEFECTS NOTED. ORMAL. NO LEAKS NOTED. RDANCE WITH ANNUAL INSPECTION AND WAS FOUND T	O BE IN AIRWORTHY CONDITION.
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24000	
Twelve Stone Aviation 802 A	irport Ave. Hanger 5 Springdale, AR 72764 479-799-8065
N2702L HOBBS: 541.4 TSIO-5	320-NB RIGHT S.N. R521612 01/10/2017
DEFECTS NOTED, INSTALLED NE	OVED OIL FILTER. INSPECTED FILTER FOR CONTAMINATION, NO EW CH48108-1 OIL FILTER SERVICED WITH AEROSHELL W80 PLUS NO LEAKS FOUND. RETURNED TO SERVICE.
BILL BUCKLAND	JOHN GEARHART
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	A&P 3138384
Twelve Stone Aviation 802	Airport Ave. Hanger 5 Springdale, AR 72764 479-799-8065
	-520-NB RIGHT S.N. R521612 07/26/2017
N2/02L HOBBS: 610.7 1510-	520-ND RIGHT 53N. R521012 07/20/2017
A&P 3138384	
A&P 3138384 Twelve Stone Aviation, LLC.	802 Airport Rd. Hangar 5 Springdale, AR 7276
Twelve Stone Aviation, LLC.	
Twelve Stone Aviation, LLC. REGISTRATION: N2702L	HOBBS: 622.2 DATE: 09/01/2017
Twelve Stone Aviation, LLC.	
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DESCRIPTION OF WORK PERFORMED-SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

N2702L Model TSIO-520- NB, S# R-521612

Date 10/4/2018 (Right Side) Hobbs 750.8 SMOH 266.2

Removed cowl and inspected engine. Compression test as follows: beginning with # 60,68,70,67,72,72. Removed upper deck lines and all injectors, Cleaned and replaced seals, P/N 633958-3, Washers Nozzle, P/N 640612, O-rings, P/N 630979-9 Washer, P/N 628556

Installed 12 new RHB 32E Spark Plugs. Checked Mag Timing. Drained oil and filled with 12 quarts 100W Plus oil. Installed new CH48108-1 oil filter. Cut open filter no contaminates noted. Installed new engine air filter P/N P128156. Completed exhaust inspection part B, C, D, E and G as referenced in airframe AD. Adjusted mixture and Idle settings. Test run engine to specs, no leaks noted.

All Ad's com	plied with	as of this date	. 10/4/2018
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De la	An	SHP	3602	934
Ed Allen				,

I certify that this engine has been inspected in accordance with a 100 hour/ annual inspection and was determined to be in airworthy condition.

Tim Rogers

10/5/2018, New Hobbs time 994.8

Right, SMOH 266.2

Due to Maintenance new Hobbs time is 994.8. This time reflects the same

engine hours as previous Hobbs time reading of 750.8

Ed Allen 262 Cert# 44 360 2934

N2702L Model TSIO-520- NB, S# R-521612

Date 12/13/2018 (Right Side) Hobbs 10246

Removed cowl right engine. Drained oil and filled with 12 quarts 100W oil. Installed new CH48108-1 oil filter. Cut open filter no contaminates noted. Torque exhaust system risers. Completed exhaust inspection part B as referenced in airframe AD. Adjusted mixture and Idle settings to specs, no leaks noted.

3 CAU DAN 360 2934

Page No. _

N2702L Model TSIO-520- NB S/N R-521612

Date 7/16/2019 (Right Side) 355.1 SMOH

Removed cowlings and Changed Oil and filter. Filled with 12 Qts 100W oil and Installed new CH48108-1 Filter. Cut open filter, no contaminates noted. Completed Airframe Exhaust AD 00-01-16, para B. Test run engine and test flight, no leaks noted.

Lertify that this engine has been inspected and was determined to be in airworthy condition.

Ed Allen, AP3602934



92nd WEST AVIATION, INC.

1423 Lingo Road Lonoke, AR 72086 (501) 658-9092

25 March 2020 SMOH: 371.6 Total Time: UKN Drained oil. Replaced oil filter. Serviced with 10qts Aeroshell 100W+ oil. Compression check: #1-54, #2-66, #3-67, #4-62, #5-67, #6-71 over 80. Cleaned and gapped spark plugs. Ran engine and checked for leaks and performance. AD00-01-06, Exhaust visual inspection complied with, next due Mar 2021.

I certify that this engine has been inspected in accordance with an Annual Inspection as per FAR 43 Appendix D and thereby determined to be in a condition for return to service.

Donald R. Adamson A&P 3528389 IA



92nd WEST AVIATION, INC.

1423 Lingo Road Lonoke, AR 72086 (501) 658-9092

5 May 2021 Hobbs: 1232.9 SMOH: 504.3 Total Time: UKN Drained oil. Replaced oil filter. Serviced with 10qts Aeroshell 100W+ oil. Compression check: #1-54, #2-74, #3-70, #4-74, #5-74, #6-68 over 80. Cleaned and gapped spark plugs. Ran engine and checked for leaks and performance. AD00-01-06, Exhaust visual inspection complied with, next due May 2022.

I certify that this engine has been inspected in aecordance with an Annual Inspection as per FAR 43 Appendix D and thereby determined to be in a condition for return to service.

Donald R. Adamson A&P 3528389 IA

Page No. ____

DATE	TOTAL	TOTAL	TACH OR
	TIME	TIME	RECORDING
	IN	SINCE	METER
	SERVICE	OVERHAUL	TIME

DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO OF PERSON PERFORMING WORK



7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N Engine TT: 3344.0
Engine SMOH: 517.5 (7/16)
Prop SMOH: 517.5 (7/16)
Hour Meter: 1246.1
Date: 10/04/2021

TCM TSIO-520-NB RAM SIV S/N R-521612

On above referenced engine, removed all cowling for 100HR/Annual Inspection. Installed new spark plugs. Drained oil, installed new oil filter and refilled engine with Aeroshell W100 plus oil. Installed magnetos, P/N 6320. S/N's 11040376 and 20010315 after 500-hour inspection performed and checked timing. (See tags.) 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) 70/80, #3) 68/80, #4) 70/80, #5) 68/80 and #6) 65/80. Installed new prop deice brush assemblies. C/W A.D. 2000-01-16 per paragraph (b), (c), (d) and (e). (Paragraph (b) next inspection due at 1296.1 HM.) (Paragraph (g) due 7830.8 Aircraft TT or 10/2030.) Installed new air/oil separator filter element. Performed set-up of systems per Continental and RAM Specs. All A.D.'s researched through bi-weekly 2021-19. See A.D. listing in log binder for all current and future compliance times. Above work done in accordance with TCM and Cessna Service Manual 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

Air Impressions, Ind CRS# AK6R541N

		7929 Karl May Dr. Waco, Texas 76708 CRS No. AK6R541N	I certify this
-		SUB-TOTALS this page TOTALS—Carry forward to	o next nage

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	
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Р	age 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
/					TOTALS brought forward from previous page

ENGINE MODEL: TSIO-520-NB5B ENGINE S/N (R): 521612 REG. NO: N2702L WORK ORDER: 0692



Premier Aircraft Service, Inc.

3804 Falcon Way W Hangar 18S Fort Worth, TX 76106 Phone: 562 881 5345 DATE: 10/21/2022 A/C TSN: 1319 3 ENG TT (R): 1319 3 HOBBS: 644 8

Right Engine Entries

Replaced starter with overhauled 646275-1 S/N V-049736

DATE: 10/21/20	22	SIGN	ED:	Work Order: 0692
1		Chad	Cox, License: AP378	82800 IA Printed by EBis 3 (datcomedia.com)
		 		
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				SUB-TOTALS this page

TOTALS—Carry forward to next page

