

# N2702L

## 1981 Cessna 414A

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# RH Engine Logbook SMOH 2016 - 2025

**MSN: 414A-0608**



*Prepared by the worldwide aviation specialists at RidgeAire, Inc.*

# MENA AIRCRAFT ENGINES, INC

## ENGINE MAINTENANCE RECORDS

Aircraft Registration

N2702L

Engine Position

R/H

Engine Serial No.

R-521612

# MENA AIRCRAFT ENGINES, INC

## ENGINE MAINTENANCE RECORDS

Log No. 1

Aircraft Registration No. N2702L

Engine Manufacturer TCM

Model TS10-520-NB

Serial No. A-521612

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

**crankshaft/counterweight assembly(TCM s/n G139408N):** 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

**camshaft:** 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.

**valve rocker arms(12):** 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

**alternator:** 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 16-365 FAA CRS#1GPR022B.

**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.

**propeller governor:** 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.

**turbocharger, waste gate, relief valve, and controller:** inspected, overhauled, tested, and certified 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 thru-bolts, 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 *Robert Smith* #2549814 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 Aircraft Engines, Inc. - FAA CRS#S9QR340N - w/o 2146 - *Robert Smith* #2549814 July 05, 2016

Twelve Stone Aviation, LLC. 802 Airport Rd. Hangar 5 Springdale, AR 72764

REGISTRATION: N2702L	HOBBS: 484.6	DATE: 07/29/2016
MODEL: TSIO-520-NB	ENGINE TSMO: 00.0	RIGHT SIDE SN: 521612

- INSTALLED ENGINE AFTER OVER HAUL BY MENA AIRCRAFT ENGINES, INC.
- SET MAG TIMING
- INSTALL NEW
- INSTALLED NEW AA48108-2 FILTER AND SERVICE WITH A/S100 MINERAL OIL.
- C/W AD00-01-16 EXHAUST VISUAL INSPECTION PER (PAR B) NEXT DUE 5926.3, AND PER (PAR (C) AND (E)) NEXT DUE 05/14/17. PAR (G) DUE ACTT 6903.1 OR 02-13-18. NO DEFECTS NOTED.
- GROUND RUN, ALL OPS NORMAL. NO LEAKS NOTED

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

KEVIN S DAVIS

AP4314761481A *K S Davis*

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Twelve Stone Aviation 802 Airport Ave. Hangar 5 Springdale, AR 72764 479-799-8065

N2702L HOBBS: 541.4 TSIO-520-NB RIGHT S.N. R521612 01/10/2017

DRAINED ENGINE OIL AND REMOVED OIL FILTER. INSPECTED FILTER FOR CONTAMINATION, NO DEFECTS NOTED. INSTALLED NEW CH48108-1 OIL FILTER SERVICED WITH AEROSHELL W80 PLUS OIL, GROUND RUN PERFORMED. NO LEAKS FOUND. RETURNED TO SERVICE.

BILL BUCKLAND

JOHN GEARHART

A&P 3138384

Twelve Stone Aviation 802 Airport Ave. Hangar 5 Springdale, AR 72764 479-799-8065

N2702L HOBBS: 610.7 TSIO-520-NB RIGHT S.N. R521612 07/26/2017

DRAINED ENGINE OIL AND REMOVED OIL FILTER. INSPECTED FILTER FOR CONTAMINATION, NO DEFECTS NOTED. INSTALLED NEW AA48108-2 OIL FILTER & SERVICED WITH AEROSHELL W100 PLUS OIL. GROUND RUN PERFORMED. NO LEAKS FOUND.

JOHN GEARHART

A&P 3138384

Twelve Stone Aviation, LLC. 802 Airport Rd. Hangar 5 Springdale, AR 72764

REGISTRATION: N2702L	HOBBS: 622.2	DATE: 09/01/2017
MODEL: TSIO-520-NB	ENGINE TSMO: 137.6	RIGHT SIDE SN: 521612

- ANNUAL INSPECTION
- COMPRESSIONS #1 60 #2 62 #3 64 #4 64 #5 74 #6 66 ALL OVER 80 PSI. MO 42PSI
- SET MAG TIMING
- CLEAN, GAP AND TEST SPARK PLUGS.
- OIL AND FILTER CHANGE. INSPECT FILTER, NO DEFECTS NOTED. INSTALLED NEW AA48108-2 FILTER AND SERVICE WITH A/S W100 PLUS OIL.
- C/W AD00-01-16 EXHAUST VISUAL INSPECTION PER (PAR B) NEXT DUE 5926.3, AND PER (PAR (C) AND (E)) NEXT DUE 05/14/17. PAR (G) DUE ACTT 6903.1 OR 02-13-18. NO DEFECTS NOTED.
- GROUND RUN, ALL OPS NORMAL. NO LEAKS NOTED

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION.

KEVIN S DAVIS

AP4314761481A *K S Davis*

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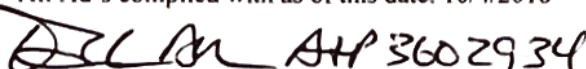
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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N2702L Model TSIO-520- NB, S# R-521612

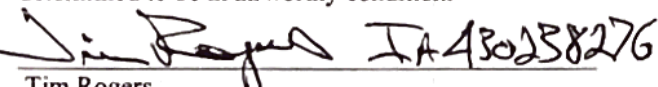
Date 10/4/2018  
(Right Side)  
Hobbs 750.8  
SMOH 266.2

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 contaminants 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 complied with as of this date. 10/4/2018

  
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

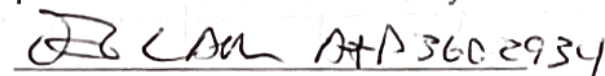
engine hours as previous Hobbs time reading of 750.8

Ed Allen  Cert# AP 3602934

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

Date 12/13/2018  
(Right Side)  
Hobbs 1024.6

Removed cowl right engine. Drained oil and filled with 12 quarts 100W oil. Installed new CH48108-1 oil filter. Cut open filter no contaminants 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.

  
Ed Allen

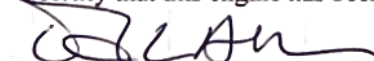
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N2702L Model TSIO-520- NB S/N R-521612

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 contaminants noted. Completed Airframe Exhaust AD 00-01-16, para B. Test run engine and test flight, no leaks noted.

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

  
Ed Allen, AP3602934

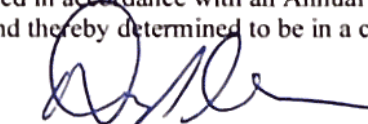


92<sup>nd</sup> WEST AVIATION, INC.

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

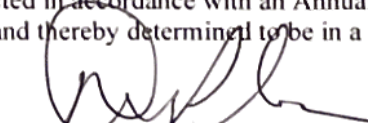


92<sup>nd</sup> WEST AVIATION, INC.

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 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

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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7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N

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


Engine TT: 3344.0  
 Engine SMOH: 517.5 (7/16)  
 Prop SMOH: 517.5 (7/16)  
 Hour Meter: 1246.1  
 Date: 10/04/2021

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 5256.

~~Air Impressions, Inc.~~  
CRS# AK6R541N



7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N

I certify this Engine has been  
inspected in accordance with a 100 HR  
Inspection and has been determined  
to be in an airworthy condition.  
DATE 10/04/2021 HM 1246.1  
ENGINE TT 3344.0  
ENGINE SMOH: 517.5 (7/16)  
WORK ORDER #5256  
SIGNED   
AIR IMPRESSIONS, INC.  
REPAIR STATION # AK6R541N

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*Premier*  
Aircraft Service

3804 Falcon Way W  
Hangar 188  
Fort Worth, TX 76108  
Phone 562 881 5345

DATE 10/21/2022  
AC TSN 13193  
ENG TT (R) 13193  
HOBBS 6448

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

**SIGNED:**

Chad Cox, License: AP3782800 IA

Work Order 0692

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7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N

Engine TT: 3436.5  
Engine SMOH: 610.0 (7/16)  
Prop SMOH: 610.0 (7/16)  
Hour Meter: 1338.6  
Date: 12/12/2022

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

On above referenced engine, removed all cowlings for 100HR/Annual Inspection. Cleaned and gapped spark plugs. Drained oil, installed new oil filter and refilled engine with Aeroshell 15-W50 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 mount, 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) 66/80 #3) 70/80, #4) 60/80, #5) 75/80 and #6) 76/80. C/W A.D. 2000-01-16 per paragraphs (b), (c), (d), (e). (Paragraph (b) next due 1388.6 HM.) Engine systems set-up to Continental and RAM Specs. All A.D.'s researched through bi-weekly 2022-24. See A.D. listing for current and future compliance times. Above work done in accordance with Continental 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 5597.

Air Impressions, Inc.  
CRS# AK6R541N

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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
				TOTALS brought forward from previous page



7929 Karl May Dr.  
Waco, Texas 76708  
CRS No. AK6R541N

I certify this Engine has been  
inspected in accordance with a 100 HIR  
Inspection and has been determined  
to be in an airworthy condition.

DATE 12/12/2022 HM 1338.6

ENGINE TT 3436.5

ENGINE SMOH: 610.0 (7/16)

WORK ORDER #5597

SIGNED

[Signature]  
AIR IMPRESSIONS, INC.

REPAIR STATION # AK6R541N



Sipes Aircraft, LLC Rt Engine

Livingston Air Park  
220 Air Park Drive  
Livingston, TX 77351

02-10-2023

Cessna 414 A 0608 TS10-520 Hobbs 1376

Drained oil and removed oil filter.

Inspected filter for metal. Serviced  
engine with Aeroshell 100W and

Installed AA 48108 oil filter, torqued  
and safety. Degreased engine and

cooling. Engine ground run up  
and leak checked good -END-

Frank Sipes for Sipes Aircraft LLC  
AP408190717

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TOTAL  
TIMETOTAL  
TIMETACH OR  
RECORDING

THE H COMPANY  
HOUSTON EXECUTIVE AIRPORT  
1900 CARDIFF RD  
BROOKSHIRE, TX 77423

5/30/2023 N2702L 414A 414A0608 H/M 1424.1  
RIGHT ENGINE

Drain oil and replace filter with new AA4108-2. Cut removed filter open and inspect for metal contamination. No discrepancies noted at this time. Serviced engine with Aeroshell W100 oil. Ground ran engine and checked for leaks. Remove tach generator P/N 22A667, S/N AT-9247. Install new tach generator P/N 22A667, S/N 19510. I certify that with respect to the work performed; this aircraft was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. No other representations concerning airworthiness are expressed or implied.

  
Kenneth Griffith AP467354347

THE H COMPANY  
HOUSTON EXECUTIVE AIRPORT  
1900 CARDIFF RD

THE H COMPANY  
HOUSTON EXECUTIVE AIRPORT  
1900 CARDIFF RD  
BROOKSHIRE, TX 77423

11/21/2023 N2702L 414A 414A0608 H/M 1451.8  
RIGHT ENGINE

Drain oil and replace filter with new AA4108-2. Cut removed filter open and inspect for metal contamination. No discrepancies noted at this time. Serviced engine with Aeroshell W100 oil. Ground ran engine and checked for leaks. I certify that with respect to the work performed; this aircraft was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. No other representations concerning airworthiness are expressed or implied.

  
Kenneth Griffith AP467354347

THE H COMPANY  
1900 CARDIFF RD  
BROOKSHIRE TX, 77423

11/17/2023 N2702L 414A 414A-0608 H/M 1465.6 ACTT 6045.6

TCM TSIO-520-NB S/N R-521612 ENG TTIS 3563.5 ENG TTSMOH 737  
RIGHT ENGINE

Completed 100 Hour/Annual inspection this date in accordance with FAR 43 appendix D and Cessna 414A maintenance manual. Compressions were as follows: 1) 72/80 2) 73/80 3) 72/80 4) 78/80 5) 72/80 6) 75/80. Drain oil and replace filter with new AA48108-1. Cut removed filter open and inspect for metal contamination. No discrepancies noted at this time. Serviced engine with Aeroshell W100 oil. Ground ran engine and checked for leaks. Clean, gap, and rotate all plugs. Check magneto to engine timing. Inspect and lubricate all engine controls. Pressurize and leak check exhaust in conjunction with AD 00-01-16, See Airframe log entry for details. All AD's checked thru bi-weekly 2023-2. C/W AD 07-05-15: Starter adapter assembly and crankshaft gear. Complied with part 2 viscous dampener end play check. All measurements were well within the limits. NOTE: Part 2 next due at H/M 117.0.

I certify that I have inspected this engine in accordance with current FAR's and a 100 Hour/Annual inspection and was found to be in airworthy condition at this time and is approved for return to service.

  
Kenneth Griffith AP467354347A



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
				<b>TOTALS</b> brought forward from previous page

THE H COMPANY  
HOUSTON EXECUTIVE AIRPORT  
1900 CARDIFF RD  
BROOKSHIRE, TX 77423

11/21/2023 N2702L 414A 414A0608 H/M 1651.8

**RIGHT ENGINE**

Drain oil and replace filter with new AA4108-2. Cut removed filter open and inspect for metal contamination. No discrepancies noted at this time. Serviced engine with Aeroshell W100 oil. Ground ran engine and checked for leaks. I certify that with respect to the work performed; this aircraft was repaired and inspected in accordance with current FAA regulations. Only those items specified in the work order have been inspected and found to be airworthy and returned to service. No other representations concerning airworthiness are expressed or implied.

*Richard A Ellis*  
Richard A Ellis AP411174632

THE H COMPANY  
1900 CARDIFF RD  
BROOKSHIRE TX, 77423

11/17/2023 N2702L 414A 414A-0608 H/M 1456.6 ACTT 6045.6

TCM TSIO-520-NB S/N R-521612 ENG TTIS 3563.5 ENG TTSMOH 737  
**RIGHT ENGINE**

Completed 100 Hour/Annual inspection this date in accordance with FAR 43 appendix D and Cessna 414A maintenance manual. Compressions were as follows: 1) 72/80 2) 73/80 3) 72/80 4) 78/80 5) 72/80 6) 75/80. Drain oil and replace filter with new AA48108-1. Cut removed filter open and inspect for metal contamination. No discrepancies noted at this time. Serviced engine with Aeroshell W100 oil. Ground ran engine and checked for leaks. Clean, gap, and rotate all plugs. Check magneto to engine timing. Inspect and lubricate all engine controls. Pressurize and leak check exhaust in conjunction with AD 00-01-16, See Airframe log entry for details. All AD's checked thru bi-weekly 2023-2. C/W AD 07-05-15; Starter adapter assembly and crankshaft gear. Complied with part 2 viscous dampener end play check. All measurements were well within the limits. NOTE: Part 2 next due at H/M 117.0.

I certify that I have inspected this engine in accordance with current FAR's and a 100 Hour/Annual inspection and was found to be in airworthy condition at this time and is approved for return to service.

*Kenneth Griffith*  
Kenneth Griffith AP4673543471A

**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
				Void wrong aircraft Logbooks <i>APL</i>
				5-14-24 N2162L Hobbs: 15000 Changed oil and filter. Cut old filter and inspect for metal. Run and leak test OK. David Bogah A&P 455216543 <i>David Bogah</i>
				Ridge Ave, Inc. 903 586-1521

BODE AVIATION INC. 2502 Clark Carr Loop SE Albuquerque, NM 87106



N2702L

Model: Cessna 414A

S/N: 414A0608

Date: 06/14/2024

Hobbs: 1732.6

CRS#J7BR555Y

Engine: TSIO520-NB

SN: R-521612

1. Removed RH engine cowlings to inspect for oil leak. Found oil fill cap not fastened closed. Cleaned engine compartment from oil remains, inspected for any other leaks none were found. Serviced engine with 5qts Aeroshell W100 oil. Verified in the TSIO-520NB EMM standard practices manual M-0 Rev No1 change 5 dated 1-15-24, Ch 6-5 there are no unscheduled inspections to be performed.
2. Performed engine ground runs IAW TSIO-520NB EMM standard practices manual M-0 Rev No1 change 5 dated 1-15-24 Ch. 7-3.3 dated Sep/15/2019. Operation and leak checks good.

I certify that this engine is airworthy for return to service with regard to the above work performed.

NAME: Eric Hanawalt *Eric Hanawalt*

WO#ABQC-6159

PD-LBEI-1 Rev. 1 01/20/2020

wo: WO\_1261

Engine R - page 1 of 1

# FirstLine

AERO

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N2702L

CONT MOTOR, TSIO-520-NB, S/N: 521612

July 31, 2024

TACH: 1726.4

1. RH Engine Oil change due. Drained oil from engine. Took oil sample. Removed oil filter, cut open oil filter, no defects found. Removed and cleaned oil sump screen, no defects found. Installed oil sump screen w/ new crush gasket. Installed new oil filter and serviced engine w/ oil. Installed (10) P/N 100W Aeroshell - Oil, Installed P/N AN900-10 - Gasket, Installed P/N CH48108-1 - Champion Oil Filter, Installed P/N AOA - Oil Analysis Kit.
2. Oil leak coming from prop governor. Removed and sent prop gov. to Byam Propellers in Ft. Worth, Texas for overhaul. Received and installed overhauled prop governor.

The listed maintenance was assisted by the following apprentices: Ben Lightfoot and Ryan Crossman

Work performed IRW Teledyne-Continental Motors MM's where applicable. Operational and leak check performed, no defects noted at this time. With respect to the work performed, this R engine is approved for return to service.

Andrew Trampus A&P 4896008 *Andrew Trampus*

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
				<b>TOTALS</b> brought forward from previous page

wo: WO\_1195

Airframe - page 1 of 1



New Mexico Aero Service LLC · 50 George Applebay Way Hangar 93 · Moriarty, NM 87035 · (505)307-3918

N2702L Habs 1744

CESSNA, 414A, S/N: 414A0608

July 18, 2024

Right - Found oil blowing out of the air oil separator bottom tube. Cleaned and flushed oil air separator and serviced the engine with 9 qts oil. Ground runs completed functional check ok.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with New Mexico Aero Service LLC. under work order: WO\_1195.

Fernando Nunez IA/AP 2749192

13 August, 2024 Hobbs: 1789

N2702L S/N: 414A0608

Cessna 414A

Powerplant R/H engine

Corrected loose intake clamp under #6 Cylinder, lubricated waste gate.

This aircraft is approved for return to service with respect to the above work performed.

Bryce Williams A&amp;P 4916774

WO: 10192



wo: WO\_1327

Engine R - page 1 of 1

# FirstXLine

AERO

First Line Aero, LLC · 458 CR 1618 · Rusk, TX 75785 · 903-316-8331

N2702L

CONT MOTOR, TSIO-520-NB, S/N: 521612

August 17, 2024

TACH: 1799.4

SINCE NEW (TACH):  
6379.4

1. Drain and refill oil and install new crush gasket on drain plug. Replace oil filter. Installed helicoil in drain pan, installed plug and safetied. Perf leak check, no defects noted. Installed P/N AN900-10 - Gasket, Installed P/N AA48108-2 - Tempest Oil Filter, Installed (10) P/N 100W Aeroshell - Oil.
2. Removed cap and clean oil separator, reinstalled cap with new stat-o-seal. 800-51. 3. take AOA oil sample.

All work done in reference to C414 MM and standard practice.

Perform post mx leak checks, no defects noted. With respect to the work performed, this engine is returned to service.

Charles Crossman A&amp;P/IA 3440359

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