



AIRFRAME MAINTENANCE RECORDS

Log #6
3/4/24 to

Registration No. N414PH

Serial No. 414A0421



AIRFRAME MAINTENANCE RECORDS

Log No. 6

Aircraft Registration No. N414PH

Model 414A

Serial No. 414A0421

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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wo: 6474

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Classic Aviation - 69 Aviation Circle - Weyers Cave, VA 24486 - (540)234-0226

N414PH

AFTT: 6940.5
LH ENG TT: 6711.0
TACH: 6078.5

CESSNA, 414A, S/N: 414A0421

Heater Hobbs: 1688.2
LH PROP TT: 980.0

LH ENG SMOH: 980.0
RH ENG SMOH: 980.0

April 01, 2024

LH ENG TT: 6711.0
RH PROP TT: 980.0

AIRFRAME:

Updated aircraft and component times, searched for new AD's, and updated the AD Compliance Report. Complied with AD 00-01-16 Exhaust System Corrosion Part c) at @ 6940.5 (MAR-2024) by removal and inspection of tailpipe, with no defects discovered (12mths) Next due MAR-2025. and Part e) by pressure testing the exhaust system (12mths) @ 6940.5 AFTT. Next due MAR-2025. Part b) P/C/W by visual inspection of exhaust system (50hrs) @ 6920.2 AFTT next due @ 6970.2 AFTT. Part d) P/C/W Insp. beams, firewalls, bulkheads (500hrs) @ 6844.3 AFTT (29-SEP-2023). Next due 7344.3 AFTT. Part f) N/A. Replace V-band (500hrs) @ 3/1/2013 next due N/A no V-band Clamps. Part g) P/C/W Replace System (12yrs/2,500hrs) @ 3/1/2013 5960.5 next due @ 3/1/2025 8460.5 ACTT. Extracted seized screws from inspection panels as needed to perform inspection. Installed new vacuum regulator filters P/N ARB3-5-1. Weighed the cabin mounted handheld fire extinguisher and found to be well within limits at 2,029.2 grams. Performed a capacity check on the main battery which passed at 86.7%. Recharged battery, recorded OCV at 27.3 Volts, and reinstalled to aircraft. Fabricated and installed a new exterior washer for the RH Storm Window Turn Lock Fastener. Fabricated and installed a new Lower Access Panel for RH Horizontal Stabilizer. Installed a doubler for aft RH engine cowling at Cam-Loc fastener location and reinstalled Cam-Loc. Investigated source of hydraulic leak aft of RH engine and forward of RH MLG wheel well with no defects detected. Re-torqued all hydraulic fittings in suspect area. Adjusted RH Bleed Air Pressure Control Knob to be flush with instrument panel. Re-sealed, re-patched, and added new patches as needed to LH and RH wing surface de-ice boots. Resealed delaminated section of the RH upper outboard Surface De-ice boot with 1300L Sealant and applied Edge Sealer as needed. Inspected LH engine vacuum discharge hose and fire sleeve. Hose is undamaged. Wrapped hose with section of fire sleeve over current sleeve for added protection and routed away from induction filter box to reduce chaffing. Fabricated and installed an upper attachment bracket for the LH Tailpipe Heat Shield.

Sealed upper two most inboard inspection panels on the RH wing with RTV Sealant to protect electrical components from water damage. Installed new RH upper Tailpipe Clamp P/N 3063CC400. Installed customer supplied Tail Cone P/N 1041-8 S/N 153 from Ram Aircraft. Installed a new Instrument Air Filter P/N AM103535IA and safety wired. Installed new Heat Duct P/N 5117257-9 under cabin floor. Adjusted LH and RH vacuum regulators to provide approximately 5.2" Hg at 1800 RPM

Inspected DM ELT 6 S/N 37999 in accordance with 14 CFR Part 91.207(d). Operational test satisfactory. ELT Battery due replacement MAR-2025.

The above work was accomplished in reference to applicable maintenance manuals and other approved or acceptable data as appropriate. I certify that this Aircraft has been inspected in reference to a an Annual Inspection Checklist, including the scope and detail of 14 CFR Part 43 Appendix D., was found to be in airworthy condition, and is released for return to service.

David Malone A&P IA 3879748

David W. Malone

Signature.

FLIGHT SUPPORT
A BBA Aviation company

100 Aviation Drive, Suite 100
Charlottesville, VA 22911
Tel (434) 978-1474

CRS# H00R564Y

N# 414PH
Model 414A
SN 414A0421
Hobbs 6142.5
WO# S12-24-06148
Date 05-16-2024

Jacked aircraft and removed left and right MLG wheel and tire assy's. Split wheels and removed old tires p/n 650C86-3 both, lt s/n 10260297, rt s/n 10270233 and old inner tubes. Cleaned and inspected wheel halves bearings and races, no defects noted, re-packed bearings. Installed new customer supplied tires p/n 650C86-3 both, lt s/n 30200086, rt s/n 32980271 with new customer supplied inner tubes p/n 06-06000 both, rejoined wheel halves and secured, bolts torqued to 95"lbs. Reinstalled lt & rt MLG wheel assy on aircraft and secured. Inflated tires to 70 PSI with air. Removed aircraft from jacks. All maintenance was done in accordance Cessna 414A maintenance manual

The aircraft - Airframe - Engine - Propeller - or Appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Pertinent details of this repair are on file at this agency under the work order identified above.

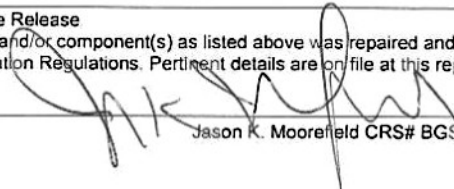
Daniel Little

CRS#H00R564Y

Daniel Little

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
				<i>Signature.</i> FLIGHT SUPPORT A BBA Aviation company 100 Aviation Drive, Suite 100 Charlottesville, VA 22911 Tel (434) 978-1474 CRS# H00R564Y N# 414PH Model 414A SN 414A0421 Hobbs 6158.8 WO# S12-24-06153 Date 05-24-2024 Complied with AD 24-06-16R1 by visual inspection of the combustion heater regulator shut-off valve by visual inspection I/A/W Kelly Aerospace Power System Service Bulletin No. A-107A, No leaks or defects noted. This AD 24-06-16R1 is due again at Hobbs 6258.0. Complied with AD 2016-17-08 by visual inspection of elevator trim tab hardware I/A/W paragraph (F) (2) and (3) of this AD 2016-17-08, bolts were previously changed out with compliance of AD 2016-07-24 and Cessna MEB-27-12. No defects noted. This AD 2016-17-08 is due again at Hobbs 6258.0. All maintenance was done in accordance Cessna 414A maintenance manual <i>The aircraft - Airframe - Engine - Propeller - or Appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was approved for return to service. Permanent details of this repair are on file at this agency under the work order identified above.</i> Daniel Little <i>Daniel Little</i> CRS#H00R564Y
				Form LB-1
				wo: 6722 Airframe · page 1 of 1  Classic Aviation · 69 Aviation Circle · Weyers Cave, VA 24486 · (540)234-0226 N414PH TACH: 6202.1 CESSNA, 414A, S/N: 414A0421 August 27, 2024 AIRFRAME: Removed left engine vacuum pump Airborne 442CW, S/N 26498, adapter plate and drive gear; installed new vacuum pump oil seal P/N 65102; installed 2 new magneto drive bushings P/N 655269 for SureFly (left) magneto; reinstalled magneto / vacuum pump gear and shaft and adjusted SureFly magneto timing in reference to SureFly installation instructions; reinstalled vacuum pump adapter plate with new gasket P/N 654012; installed overhauled Tempest vacuum pump P/N AA442CW, S/N 18P902 with drain plug kit 82-50155-DPK; ground run normal; no leaks noted. The aircraft, airframe, aircraft engine, propeller or appliance identified was repaired and/or inspected in accordance with current Regulation of the Federal Aviation Agency and is approved for return to service for the work performed. Details of work performed are on file with Classic Aviation under work order: 6722. Dean Showalter A&P IA 3126788 <i>Dean Showalter</i>
				wo: 6743 Airframe · page 1 of 1  Classic Aviation · 69 Aviation Circle · Weyers Cave, VA 24486 · (540)234-0226 N414PH TACH: 6203.1 CESSNA, 414A, S/N: 414A0421 September 12, 2024 AIRFRAME Complied with AD 00-01-16 Exhaust System Corrosion, Part b) by visual inspection with no discrepancies discovered. This AD is due every 50 hours TIS. Next due 6253.1 LH ENG Tach. Adjusted RH Vacuum Regulator Valve for approximately 5.2" Hg. at 1800 RPM. The above work was accomplished in reference to applicable maintenance manuals and other approved or acceptable data as appropriate. David Malone A&P IA 3879748 <i>D. W. Malone</i>

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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
				 Freedom Aviation 310 Hangar Road Lynchburg, VA 24502 (434) 237-8434 CRS# BGSR439C Date: 10/15/2024 3 Aircraft: N414PH Type: 414A SN: 414A-0421 Tach Time: 6219.3 WO: A24-1240 Airframe Entries Updated the main software in the Garmin GTN750Xi GPS/NAV/COM P/N 011-02002-01 S/N 5FR004372 to version 20.42 as per Garmin bulletin #24045 in accordance with Garmin bulletin #24034. Tested and confirmed all system configurations all remained the same post software update. GTN750Xi ramp checked good. Updated the software in the Garmin GFC600 Autopilot flight computer GMC605 S/N 38H201412 to version 2.85 in accordance with Garmin Service bulletin 23099. Completed a post installation checkout of the GFC600 as per the GFC600 install manual #190-01937-00 with no defects noted. End. Maintenance Release The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.  Jason K. Moore CRP# BGSR439C
<i>Clear Sky Aviation LLC, Tel: 434-284-5109</i>				
Aircraft Regist.: N414PH Tach Time: 6219.9 AF S/N: 414A0421 Date Opened: 10/16/2024 Date Complete: 10/16/2024 WO#: 0004  Work Performed: Replaced old main aircraft Gill 7246-20 battery with new Concord RG24-20, SN 41421804. New battery torqued and top-charged. Warranty good for 24 months after this install date.				
Mechanic Name: <u>TR Proven</u> A&P Cert.: <u>1715019</u> Not performed under repair station. Signature: 				
 ACE Flight Solutions 95 Aviation Way Fredericksburg VA 22406				
Airframe Aircraft Registration: N414PH Aircraft Make & Model: Cessna 414A A/C S/N: 414A0421 Engine Make/Model: Continental TSIO-520-NB S/N: 414A0421 Hobbs: 6255.9 - Complied with AD 24-06-16 R1 by confirmation of heater fuel valve configuration. - Complied with AD 2016-17-08 by inspection. Ok to continue. - Aircraft returned to service with respect to work performed. - All work performed Ref. Cessna MM, Ref. AC 43.13, Ref. Continental MM.				
Signed:  Date: 11/25/2024 Name (Printed): Andrew L. Gordon A&P License Number: 4219619				

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ACE Flight Solutions 95
Aviation Way
Fredericksburg VA 22406

Airframe

Aircraft Registration: **N414PH**

Aircraft Make & Model: **Cessna 414A** A/C S/N: **414A0421**

Hobbs: **6299.9**

- Jacked aircraft and released landing gear from down and locked position.
- Lubricated entire airframe referencing Cessna 414A MX Manual and treated cables with Corrosion X.
- Performed gear swing and operational checks as well as free play inspection and hydraulic system tests. All ok.
- Removed all panels and interior carpet and floor panels. Removed engine cowlings and covers.
- Serviced reservoir with 5606.
- Removed, serviced and inspected wheel bearings and reinstalled.
- Serviced nose strut to correct height.
- Removed failed aluminum pneumatic line in aft floor area. Installed new replacement aluminum line and secured.
- Removed and replaced with new, ELT battery. Completed ELT check, all ops ok.
- Removed and replaced with new, cabin air filter in forward baggage bay.
- Tensioned control cables as necessary to correct values and safetied.
- Serviced brakes with 5606.
- AD search completed through 2/20/2026. ADs complied with.
- **Complied with AD 2000-01-16** PAR (B) by visual inspection, PAR (C) by removing the tailpipes and visually inspecting, PAR (D) by visual inspection. PAR (E) by pressure testing and visual inspection. PAR (G) by removal of all components from collectors to turbo and turbo tailpipe and sending them out for replacement. All new parts received for both LH & RH engines. No issues noted during all inspections. No issues noted during all inspections. PAR (B) next due at +50 hours TIS or 30 calendar days, whichever occurs later. PAR (C) next due in 12 calendar months. PAR (D) next due at +500 hours TIS. PAR (E) next due at 12 calendar months.
- **Complied with AD 2017-10-09** by visual inspection with a borescope. No issues noted. Next due at +60 hours TIS.
- **Complied with AD 2023-09-09** by visual inspection of the clamps. No issues noted. Next due: +100 hours TIS or 6 months, whichever is soonest.
- This airframe has been inspected per the requirements of an annual inspection, referencing FAR 43 App. D and has been found to be in airworthy condition at this time.
- Work performed referencing Cessna 414/414A Shop manual, IPC and AC 43.13.

Signed: Paul Wilkinson Date: 2/18/2026

Name (Printed): **Paul Wilkinson** A&P/IA License Number: **2650852**

I certify that altimeter and static system tests and inspections required by FAR 91.411 have been performed in accordance with FAR 43, Appendix E.

Aircraft Registration: **N414PH** Maint. Time: **6301.2** WO# **1700**

Crew Position(s) Served By System: **Pilot**

Altitude Tested to: **30000** ft on Date: **3/23/2026**

Altimeter 1 Location: **Pilot Prime** Alt. 1 Make: **Garmin** Alt. 1 P/N: **G600** Alt. 1 S/N: **3LA000991**

Altimeter 2 Location: **Pilot Stby** Alt. 2 Make: **Garmin** Alt. 2 P/N: **GI 275** Alt. 2 S/N: **5MZ103738**

Altimeter 3 Location: **N/A** Alt. 3 Make: **N/A** Alt. 3 P/N: **N/A** Alt. 3 S/N: **N/A**

* Altimeter identification numbers only required if removed and reinstalled.

Other work done: **Conducted required annual battery test and ICA's on GI 275.**

Inspector Name: **Michael Vanderweide**

Inspector Signature: Michael Vanderweide

Date Signed: 3/23/2026

Clear Sky Aviation LLC, Repair Station Certification #3C1R322C, Tel: 434-284-5109



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