



AIRFRAME MAINTENANCE RECORDS

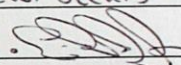
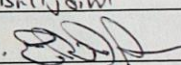
Log No. 5

Aircraft Registration No. N3VA

Model CESSNA 414

Serial No. 414-D258

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TOTAL RECORDING METER TIME	SIGNATURE
	4507.8	N/A	1250.1	TOTALS brought forward from previous page <i>Logbook # 4</i>
				<i>SEE LOGBOOK # 4</i> DATE _____ HOURS _____ AT THE TIME OF THIS INSPECTION I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>ANNUAL</u> INSPECTION AND WAS DETERMINED TO BE IN AIR WORTHY CONDITION. A & P _____
JAN 01		1256.1		Removed and Replaced pilots ADI with LOANER P/N 622-0757-001 Serial 23 IAW Cessna SERVICE MANUAL OPS checked good <i>Amy J Branch</i> ATP 129520188
JAN 6 01		1256.1		CALIBRATED R ENGINE ENGINE EGT PROBE TO GAGE. <i>Bruce Myle</i> ATP 265233792
1/6/01	4512.8	1256.1		TIME CORRECTION DUE TO ACCURACY CHECK ON HORAS METER. (RAN FOR 1 HR TO CHECK). <i>Ed Sellgren</i> ATP 130130130
1/23/01		1274.1		Removed and Replaced Pilots ADI with original ADI, OPS checked NORMAL IAW Cessna SERVICE MANUAL. <i>Amy J Branch</i> ATP 129520188

			TOTALS brought forward from previous page
26mm ⁰¹	1391.2		SERVICED N ₂ STWT WITH NITROGEN TO 4.55" IAW MFR MM. M.E. Chu Michael E. Hall A & P 252924832
4-21-01	1375.7		CLW AD2000-01-16 on LT & RT eng. Exh. Sys. as per Par (b) Visual Insp. of Complete Sys. no noted Defects at this time next. Due Insp. 1435.7 Hobbs or 30 calendar Days which ever occurs later.  03P262816212 Eric W. Mangelson
6-23-01	1510.3		CLW AD2000-01-16 on LT & RT eng. Exh. Sys. + Beams as per Par's (b) & (d) Visual Insp. no noted Defects at this time. Par (b) next Due 1560.3 Hobbs or 30 calendar Days From this Date which ever occurs later. Par (d) next Due 2010.3 Hobbs.  03P262816212
9-21-01	1589.3		Removed & Replaced LT outbd cowl flap Ball Joint P/N 8104-1 IAW Cessna Service Manual.  03P262816212
10-23-01	1618.2		Removed & REPLACED BATTERY P/N 6-246 S/N 601972320 IAW MAF MM. Serviced BATTERY IAW 611 Service Manual M.E. Chu Michael E. Hall A & P 252924832

DATE	TOTAL TIME IN SERVICE	TIME SINCE OVERHAUL	METER TIME
13 July 01	4507.80		1536.0

TOTALS brought forward from previous page

MIRACLE STRIP AVIATION, INC.
DESTIN, FL 32541

Serial Number 414-0258

N# 3VA

Make & Model CESSNA 414

Airframe Total Time 4507.80

Flight Hour Meter 1536.0

Date: 13 July 01

REP BATTERY P/N G-246

INSTALLED P/N G-246

ALTIMETER SCALE
CORRECTION CARD

ALTIMETER S/N

771451

SPRINGDALE AVIONICS
892 AIRPORT RD
SPRINGDALE, AR
FAA CRS HS2R883K

N3VA
AS REQ'D BY FAR 91.
411/413

Removed defective pilot altimeter and VSI and alteter.
Installed new United 35K altimeter (TSO), United 7040
VSI (TSO), and Atek A-30 Encoder (TSO). NO significant W&B change.
Pilot ALT: United 5934PA-3 S/N 418952 } tested to 35K'
Copilot ALT: United 5934PA-1 S/N 70454 }
Encoder: Atek A-30 S/N 76592 tested to 30.7K'

THIS AIRCRAFT TRANSPONDER HAS BEEN
TESTED TO MEET REQUIREMENTS OF FAR
PART 43, APPENDIX F.

W/O NO. 2289 DATE 012202

XPONDER MAKE/MODEL KT76A-75762

SIGNED [Signature]

THIS AIRCRAFT ALTIMETER AND STATIC
SYSTEM HAVE BEEN TESTED TO MEET
REQUIREMENTS OF FAR 43, APPENDIX E.

W/O NO. 2289 DATE 012202

SIGNED [Signature]

7. SERVICED IAW G11
J CESSNA M.M.

Signed [Signature]
A&P 54974177

Date: 1, February 2002

N3VA

1672 Hobbs / 4797 ACTT

The logbooks were researched to establish the current Aircraft Total Time, the following was determined:

08-21-1981 Hour Meter replacement, 1830.5 Hour Meter Hours - 1830.5 Hours ACTT
09-19-1987 Hour Meter replacement, 293.5 Hour Meter Hours - 2124 Hours ACTT
10-05-1994 Hour Meter replacement, 1002.7 Hour Meter Hours - 3126.7 Hours ACTT
01-06-2001 Hour Meter operations check starting @ 1256 Hours, ran hour meter for 1 hour ending @ 1257 Hours - 4382.7 Hours ACTT

As a result of the above research the aircraft was determined to have 4797.7 Hours ACTT.

[Signature]

Burton P. Byers
A&P 430411189

TOTALS brought forward from previous page

Date: 1, February 2002

N3VA

1672 Hobbs / 4797 ACTT

Left Engine: S/N: 514467 / 1336 Hours TSO

Left Propeller: S/N 961543 / 1336 TSN

Right Engine: S/N: 509537 / 1336 Hours TSO

Right Propeller : S/N 982196 / 421 TSO

200 Hour Inspection: Inspected Airframe, Fuselage, Empennage, Windows, (The windshield anti-ice reservoir was serviced and the lines were internally cleaned prior to ops. checking the system.) Doors, Engine Controls, Wings, (The left and right wing de-ice boots were removed a new 23S2010-1-1 left boot was installed and a new 23S010-1-2 right boot was installed. The right wing pressurization duct, from the engine compartment to the heat-exchanger duct, was removed and replaced with a new CM3211-10B Duct.) Flight Controls and Surfaces, Checked Control Travels and Cable Tensions and adjusted as needed, Electrical, Lights, (The rear nav bulb was removed and a new A510-28V bulb was installed.) Cabin Heater, (Current Heater Hour Meter reads 333, performed a heater decay inspection and combustion air pressure switch in accordance with AD 96-20-07, Next Heater Decay/Pressure Switch compliance due @ 433 Heater Hour Meter hours or 02-2004. The duct from the bulkhead to the heater muffler was removed and replaced with a new CM3211-18A Duct. The duct from the heater muffler to the heater was removed and replaced with a new 5117257-7 Duct. AD 2001-17-13 (09-11-2001) Heater fuel regular shutoff valve was complied with by the removal of the existing valve and the installation of a new valve with a date of manufacture of 01-17-1980 that was tested in accordance with Electrosystems SB A-107 with no defects noted at this time and, no further action is required at this time.) Air-conditioner, Placards, (A new 5111550-16 Emergency Exit Handle Cover was installed with its' proper placard.) Oxygen System, Interior, (The Pilots wemack vent was secured. Cabin seat-seat stops were installed as needed.) and Landing Gear. All wheels were removed, cleaned, inspected, bearings were repacked and all wheels were reinstalled after replacing both main gear tires and tubes with 2 each Goodyear FCC II 6.50x10, 10PR Tires and 2 each 092-344-0 Tubes.) The landing gear tensions and rigging was inspected, adjusted as needed and the gear was cycled through several retractions/extensions including an emergency extension. Inspected Engine Cowlings, Fuel System, (Removed the left nacelle transfer pump and installed 0 TSO pump S/N 114701 replacing associated o-rings as needed.) and Propeller assemblies: The propellers were inspected, the propeller assemblies were visually inspected for cracks and none were found at this time. Two de-ice boots were removed from the left propeller and replaced with 2 each new B40183-19 boots.) One of the right propellers de-ice boot leads were repaired and all leads were secured. The propeller(s) blades were dressed and painted. The aircraft was lubricated IAW Manufactures Instructions. Replaced instrument air filter with a new AM1035351A filter. Inspected ELT assembly IAW FAR 91.207 (d), next inspection due 02-03, battery replacement due 01-2003. The vacuum regulator filters were removed and 2 new B3-5-1- filters were installed.

200 Hour Inspection, both engines: Changed oil and filters installing new CH48108 oil filters, cut open removed oil filters for visual inspection with no abnormalities found at this time, serviced both engines to 12 quarts with Aeroshell 100 oil. Checked compression's, (See engine log entry/inspection form(s) for results, the left engine #2 cylinder was removed and a serviceable cylinder S/N RR163.3 was installed. All associated/necessary gaskets/seals were replaced with new as needed. All spark plugs were removed and replaced with new RHB32E spark plugs and the magnetos were timed magnetos to engines. The magneto air filters were removed and 2 new 1396-2 filters were installed, the right engine magneto air filter supply hose was removed and replaced with a new hose. Inspected all accessories, (The oil lines associated with the left engine wastegate were flushed and the left alternator end cap was replaced with a serviceable cap.) lines, hoses, engine mounts, fuel system, exhaust system, (The right engine Wye to Wastegate pipe was removed and 0 TSO Pipe was installed as required by AD 2000-01-16 (g). All Multi-segmented exhaust clamps were removed and 2 each 42564B200 clamps and 4 each MVT 68892-250 clamps were installed as required by AD 2000-01-16 (f). Both wastegate overboard pipe clamps were removed and 2 each new U84-210SH clamps were installed.) controls and induction air filters. The induction filters were removed and 2 new P12-8156 elements were installed as required by AD 84-26-02. The aircraft was washed and ground ran for ops. and leak check, adjustments to engines were made as needed prior to test flying. The aircraft was test flown for ops. check of the pressurization system and for adjustment of the stall vane/warning system. I certify that this Aircraft has been inspected in accordance with a Cessna 200 Hour Inspection and was determined to be in airworthy condition. All work was accomplished with reference to appropriate manufactures instructions and applicable FAR's. See AD Section in Aircraft Logbook for compliance/status.



Burton P. Byers
A&P 430411189

[illegible]

TOTALS brought forward from previous page

4-2-03 4887.4

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1762.4

Cont. From Previous Page.
And tires. Replaced ALL Brake
Linings. Replaced Nose wheel
tire with New 6.00-6 6ply
Goodyear. Placed A/C on SACKS
cycled Green Several Retractions
and Extensions, Including an
Emergency Extension. Opened
Inspection Panels, Checked Pulleys
and Cables. Lub & Greased Hinge
Points. Checked Lites, Stall Warning
Pilot Heat & Strobes. Removed
ELT for Repair, & Placed Panel.
Serviced Battery with Water and
Charged. AD 2000-01-16 Exhaust
System, CW (b) (c) (d) (e) See
Recurring AD Sheet in Log
Book for more detail and Next
due.

Date 4-2-03 total time 4887.4

I certify this AIRCRAFT has been inspected in
accordance with a 100HA inspection and was
determined to be in airworthy condition.

Signature [Signature] A&P No. 446423169

Date 4/2/03 TT 4887.4

I certify this AIRCRAFT has been inspected in
accordance with an Annual inspection and
found to be in airworthy condition

Signature [Signature] IA 1321137

			TOTALS
5-1-43	4905.4	-	1780.4
INSTALL ELT After Repair by NARCO AVIONICS, Inc. Repair Station No. DVIR100K FAR 91.207 ELT CW (2) (1-4) ELT Battery Pack Good till June-45 <i>Sam M. Hardy</i> ATP 446423169			

7-1-44	4949.2	-	1824.2
Aircraft was Inspected, Serviced, & Lubricated. IAW Cessna 414 Service Manual Check List. Cleaned, Inspected and Packed ALL wheel Bearings. Inspected wheels, tires and Brakes. Serviced Battery with water and charged. Clean Engine Air Induction Filter Element. Place A/C on Tanks cycled Gear Several Retractions Extensions, Including an Emergency Extension. Opened Inspection Panels, Check Pulleys & Cables. Lub & Grease Hinge Points. Checked Lites, Stall Warning Pitot Heat & Strobes. AD 84-26-42 Induction Air Filter Paper, PCW 2-1-42 Installed New Filter Element Next due Hobbs 2172.4 - →			

SUB-TOTALS this page

TOTALS—Carry forward to next page

Cont. to Next Page →

TOTALS brought forward from previous page

7-1-44 4949.2 - 1824.2 Cont. from Previous Page!
AD 96-20-07 Dinitrol Hesters
Cw 6S Performing decay &
Combustion Air Pressure Switch
test, Next due 6-46 / Hester
No 665 454.3 whichever first. FAR
91.207 ELT Cw (d) (1-4) Next
due + 12 MTHS, Battery Good
till 6-45. - - -

Date 7-1-44 total time 4949.2

I certify this Aircraft has been inspected in

accordance with a 100 hr inspection and was

determined to be in airworthy condition.

Signature Wm. M. Hester A&P No. 446423169

Date 7/1/44 at 4949.2

I certify this Aircraft has been inspected in

accordance with an Annual inspection and

found to be in airworthy condition

Wm. M. Hester IA 1321132

11-1-45 4977.7 - 1852.7 Aircraft was Inspected, Serviced,
& Lubricated IAW Cessna 414
Service Manual Check List. Cleaned,
Inspected & Packed ALL wheel Bearings.
Inspect wheels, tires, & Brakes.
Seal R/H Brake Caliper and Bleed
Brake System. Service Battery with
Water & Charge. Clean Engine
Air Induction Filter Element.
Place APC on Jacks cycle
Gear Several Retractions
Extensions, Cont to next Page →

SUB-TOTALS this page

			TOTALS brought forward
11-1-45	4977.7	- 1852.7	Cont. From Previous Page Including an Emergency Extension. Open Inspection Panels, Check Pulleys & Cables. Lub & Grease Hinge Points. Seal 4H Main Ldg Gear Strut & Service with Air & Nitrogen. Checked Lites, Stall Warning P, Hot Heat & Strobes. Replaced ELT Battery Pack with New Good till 12-47. AD 04-13-20 N/A by Version 1.11 date 3-25-99/4-21-99. AD 04-25-16 QANITAL Aero Heater PCW AD 46-20-07 Next due Heater Hobbs 454.3/6-46 whichever First. FAR 91.207 ELT CW (C) (1-4) Next due 12-45. — —

Date 11-1-45 total time 4977.7
 I certify this AIRCRAFT has been inspected in
 accordance with a 100hr inspection and was
 determined to be in airworthy condition.
 Signature [Signature] A&P No. 446423/69

Date _____ TT _____
 I certify this _____ has been inspected in
 accordance with a _____ inspection and
 found to be in airworthy condition.
 IA 1721137

Date 11/2/05 TT 4977.7
 I certify this AIRCRAFT has been inspected in
 accordance with an Annual inspection and
 found to be in airworthy condition.
[Signature] IA 1721137

TOTALS brought forward from previous page

6-14-07	5009.7	-	1884.7	AIRCRAFT WAS INSPECTED, SERVICED, AND LUBRICATED TAW CESSNA 441 SERVICE MANUAL CHECK LIST. JACK A/C, CLEAN, INSPECT, & PACK ALL WHEEL BEARINGS. INSPECT WHEELS, TIRES, & BRAKES. SERVICE BATTERY WITH WATER & CHARGE. CLEAN ENGINE AIR INDUCTION FILTER ELEMENTS. CYCLE GEAR SEVERAL RETRACTIONS EXTENSIONS INCLUDING AN EMERGENCY EXTENSION. OPEN INSPECTION PANELS CHECK PULLEYS & CABLES. LUB & GREASE HINGE POINTS. CHECK LITES, STALL WARNING, PITOT HEAT & STROBES. AD 104-25-16 JANITROL AERO HEATERS CW decay & PRESSURE SWITCH test next due Heater Hobbs 461.2 / 6-2009 whichever first. FAR 91.207 ELT CW (d) (1-4) next due 1984.7 / 7-08 Note ELT Battery Pack Due 12/2007. AD 76-13-0 MLG Retraction tube Lock Bolts CW Installed New Bolt 5141052-1 Both Sides Next due +5000 hrs / A/C TT 10009.7.
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Date 6-14-07 total time 5009.7
 I certify this AIRCRAFT has been inspected in
 accordance with a 100 hr. inspection and was
 determined to be in airworthy condition.
 Signature [Signature] A&P No. 446423169

Date 06-14-07 TT 5009.7
 I certify AIRCRAFT has been inspected in
 accordance with an Annual inspection and
 found to be in airworthy condition.
[Signature] in CLASS 2

SUB-TOTALS this page

TOTALS Carry forward to next page

1-11-14 5013.6

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1888.6

AIRCRAFT WAS INSPECTED, SERVICED,
& LUBRICATED IAW CESSNA 414
SERVICE MANUAL CHECK LIST. PACK
A/C, CLEAN, INSPECT AND PACK
ALL WHEEL BEARINGS. REPLACE
NOSE WHEEL BEARING & ROLLER WITH
NEW P/N 13889 BEARING P/N 13836 ROLLER.
REPLACE L/H AND OUTBOARD MAIN
ROLLER BEARING WITH NEW P/N 29749
BEARING, P/N 29710 ROLLER. INSPECT
WHEELS, TIRES, & BRAKES. SWING GEAR
INCLUDING EMERGENCY EXTENSION,
PERFORMED OK. SERVICE BATTERY WITH
WATER AND CHARGE. INSTALL NEW
BILT BATTERY BS 2166 GOOD TILL JULY
2011. AD 00-01-16 EXHAUST SYSTEM
CRACKS & CORROSION - REMOVE EXHAUST
FROM SLIP JOINTS & AFT TO ALL
TURBO-CHARGER ATTACHED COMPONENTS
AND SEND TO DAWLEY AVIATION, INC.
FOR AD COMPLIANCE, SEE FORMS
DATED 7-24-2009 FOR MORE DETAIL.
REMOVE L & R/H TURBOCHARGERS FOR
REBUILD BY KELLY AEROSPACE POWER
SYSTEMS, AND INSTALL SEE FORM 8130-3
DATED JUNE 20, 2008 FOR MORE DETAIL.
-- CONT TO NEXT PAGE -->

SUB-TOTALS this page

TOTALS brought forward from previous page

1-11-17 5013.6 - 1888.6

Remove 4/Hand Controller and Install After Repair by Aircraft Accessories of Oklahoma, Inc See Form 8130-3 dated Nov 5, 2009 for more detail. Clean Engine Air Induction Filter Elements. Open Inspection Panels, Check Pulleys & Cables. Check Lites, Stall Warning, Pitot Heat & Strobes. Lub & Grease Hinge Points. Remove Oxygen Unit and Install After Hydrotest only by Eagle Industries, Inc yellow tag dated 9-16-09 for more detail. Remove Regulator "Oxygen bottle" for overhaul & Certification by Eagle Industries, Inc, see yellow tag dated 10-19-09 for more detail. AD 04-21-05 Dual Fuel Combustion Heater C/W Performed decay Pressure Switch test Next due 1, 2011/Heater Hobbs 461.2 whichever first AD 00-01-16 Exhaust System Checks & Corrosion C/W See Recurring AD sheets for Aircraft in Log Book, FAR 91.307, EFT Sup (d) (1-4)

Date 1-11-17 total time 5013.6

I certify this Aircraft has been inspected in

accordance with a 100 hr. inspection and was

determined to be in airworthy condition.

Signature [Signature] A&P No 4423169

Date 1-11-17 5013.6

I certify Aircraft has been inspected in

accordance with an AD 00-01-16 inspection and

found to be in airworthy condition

[Signature] IA 1721133

SUB-TOTALS this page

SERVICE		TOTALS brought	
		H.665	
4-7-11	5034.7	-	1909.7
AIRCRAFT was Inspected, Serviced, & Lubricated IAW Cessna 414 Service Manual Check List. JACK A/C, CLEAN, INSPECT & PACK ALL wheel Bearings. Inspect wheels, tires, & BRAKES. Swing Gear Including Emergency Extension, Performed. OK. Service Battery & Charge. Install New E-LT Battery Good till May 2413. CLEAN ENGINE Air Induction Filter Elements. Open Inspection Panels, Check Pulleys & Cables. Lub & Grease Hinge Points. Check Lites, Stall Warning Pitot Heat & Stabes. AD 244P-41-16 Exhaust System, CW (b) (c) (d) (e) See Recurring AD sheet In Log Book for More details FAR 91.207 E-LT CW (d) (1-4) Next due +100hrs/+12m+HS			
Date	4-7-11	total time	5034.7
I certify this Aircraft		has been inspected in	
accordance with a 100hr.		inspection and was	
determined to be in airworthy condition.			
Signature	<i>Don R. Hays</i>	A&P No	446423169
Date	4-7-11	TT	5034.7
I certify this Aircraft		has been inspected in	
accordance with an Annual		inspection and	
found to be in airworthy condition			
Signature	<i>John D. Carter</i>	IA	1721137

SERVICE		OVERHAUL	TOTALS brought forward from previous page
7-9-14	5035.5	- 1910.5	AIRCRAFT WAS INSPECTED, SERVICED, & LUBRICATED IAW CESSNA 414 SERVICE MANUAL CHECK LIST. PACK A/C. CLEAN, INSPECT & PACK ALL WHEEL BEARINGS. INSPECT WHEELS, TIRES, & BRAKES. SWING GEAR INCLUDING EMERGENCY EXTENSION, PERFORMED OK. SERVICE & INSTALL NEW GILT G-246 BATTERY. INSTALL NEW ELT BATTERY PACK BS-2146 GOOD TILL JAN, 2016. CLEAN ENGINE AIR INDUCTION FILTER ELEMENTS. 4/H MAIN FUEL TANK CLOSE OUT GASKET LEAK - REPLACE WITH NEW 4/H MAIN FUEL TANK FUEL PUMP GASKET LEAK - REPLACE WITH NEW GASKET. R/H MAIN FUEL TANK CLOSE OUT GASKET LEAK - REPLACE WITH NEW GASKET. OPEN INSPECTION PANELS, REMOVE SEATS, CARPET & FLOOR PANELS, INSPECT PULLEYS, CABLES, PUSH/PULL RODS & TUBE & ROD ENDS. LUB & GREASE HINGE POINTS. CHECK LITES, STALL WARNING, PITOT HEAT, & STROBES. REPAIR LEAK IN OXYGEN SYSTEM. AD00-01-16 EXHAUST SYSTEM - CONT TO NEXT PAGE →
			SUB-TOTALS this page

DATE	SERVICE	OVERHAUL	TOTALS brought forward from previous
7-9-14	5035.5	-	1910.5
See Recurring AD sheet in Log Book for more detail. AD 84-26-02 Induction filter Element per 2-1-02 installed New Filter Elements, Next due Install New filter Hobs 2172.0, Clean & Visual Inspect & this time. AD 04-21-05 Quintron Combustion Venturis CW by Conducting Pressure decay test, Next due +100 hrs Ventur time/24 mths, Hobs Due 466.5/ date 5-2-16. AD 14-03-03 Flight into Knowing Icing Conditions, CW (2) (i) (ii) (B) Next due N/A. FAR 91.207 ELT CW (d) (1-4) Battery Good till Jan. 2016. —			
On <u>7-9-14</u> total time <u>5035.5</u>			
I certify this <u>Aircraft</u> has been inspected in accordance with a <u>100 hr.</u> inspection and was determined to be in airworthy condition.			
Signature <u>[Signature]</u> A&P No. <u>446423169</u>			
On <u>7/9/2014</u> TT <u>5035.5</u>			
I certify this <u>Aircraft</u> has been inspected in accordance with an <u>Annual</u> inspection and found to be in airworthy condition			
<u>[Signature]</u> IA 1721300			

1. UNITED STATES		2. FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG U.S. Department of Transportation Federal Aviation Administration				3. System Tracking Ref. No. 12627	
4. Organization Calvin Taff Electronics Inc. 5601 Phillip J. Rhoads Ave Hanger 3C Wiley Post Airport Bethany OK 73008						5. Work Order, Contract, or Invoice Number: 12627	
6. Item	7. Description	8. Part Number	9. Eligibility*	10. Quantity	11. Serial/Batch Number	12. Status/Work	
1	Altimeter	5934PA-1	TBV By Installer	1	7D454	Inspected	
13. Remarks Tested and Certified I/AW FAR 43 APP E From -1000 to 30 K FT.							
Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new. 14. ☐ New ☐ Newly Overhauled Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts to be exported, the special requirements of the importing country have been met. 15. Signature 16. FAA Authorization No.: 17. Name (Typed or Printed): 18. Date: 19. Return to Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is(are) approved for return to service. 20. Authorized Signature: 21. Certificate Number: 22. Name (Typed or Printed): 23. Date:							

FAA Form 8130-3 (11-93)

*Optional Installer must crosscheck eligibility with applicable technical data.

TXP #2 Mfg. By United M# 5934PA-3 S# 413952
has been tested, inspected and found to comply with FAR 91.413.
Alt #1 Mfg. By United M# 5934PA-3 S# 413952
has been cert. by IX2R914K on 8-7-14 to an altitude of 35 thousand feet.
Alt #2 Mfg. By United M# 5934PA-1 S# 7D454
has been cert. by IX2R914K on 8-7-14 to an altitude of 30 thousand feet.
Static/Encoding system has been tested, inspected and found to comply with FAR 91.411.
Reference WO# 12627 by CCJH Date 8-13-2014

Page D.

FAA FORM 8130-3
AIRWORTHINESS APPROVAL TAG
 U.S. Department of Transportation
 Federal Aviation Administration

3. System Tracking Ref. No. 12627

5. Work Order, Contract, or Invoice Number 12627

12. Status/Work Inspected

Item	Description	Part Number	Eligibility*	Quantity	Serial/Batch Number
1	Altimeter	5934PA-1	TBV By Installer	1	7D454

13. Remarks
 Tested and Certified I/AW FAR 43 APP E From -1000 to 30 K FT.

14. New ☐ Newly Overhauled ☐
 Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13, was (were) manufactured in accordance with FAA approved design data and airworthiness.

NOTE: In case of parts to be exported, the special requirements of the importing country have been met.

15. Signature _____

16. FAA Authorization No. _____

17. Name (Typed or Printed): _____

18. Date: _____

19. Return to Service in Accordance with FAR 43.9
 Certifies that the work specified in block 13 (or attached) above was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is(are) approved for return to service.

20. Authorized Signature Gary R Christian

21. Certificate Number: IX2R914K

22. Name (Typed or Printed): Gary R Christian

23. Date: 8-7-2014

Optional installer must crosscheck digitally with applicable technical data.

has been tested, inspected and found to comply with FAR 91.413.
 Alt #1 Mfg. By United M# 5934PA-3 S# 413952
 has been cert. by IX2R914K on 8-7-14 to an altitude of 35 thousand feet.
 Alt #2 Mfg. By United M# 5934PA-1 S# 7D454
 has been cert. by IX2R914K on 8-7-14 to an altitude of 30 thousand feet.
 Static/Encoding system has been tested, inspected and found to comply with FAR 91.411.
 Reference WO# 12627 by CC-JH Date 8-13-2014

Valair Aviation

7301 NW 50th St. Oklahoma City, Oklahoma 73132-9702
 FAA Certified Repair Station # V5SR2170
 Phone: (405) 789-5000 Fax: (405) 789-5995

March 13, 2015

Model - Cessna 414

s/n - 414-0258

N3VA

H/M 1920.7 hrs.

ACTT Unknown hours

Scuffed and sanded surfaces for preparation to refinish. Painted top of wings, tip tanks, top of engine nacelles, vertical stabilizer and rudder with white paint and applied trim colors. Reapplied N number with slant and shadowing.

Paint colors used:

1. White G8003P
2. Medium Gray U00067
3. Sunfish Red U00358
4. Merlin Blue 000252

Flight controls were not balanced at this time by this facility.

The maintenance described above is certified airworthy and with respect to the work performed this aircraft is approved for return to service.

Details are on file at this facility under WO-845.

Russell Hampton
 Russell Hampton for CRS# V5SR2170

TOTALS brought forward from previous page

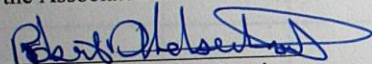
Associate Aero Service Inc

P.O. Box 1310 • Bethany, Oklahoma 73008 • (405) 789-5474 • FAA CRS SSWR186K

Cessna 414 S/N 414-0258 N3VA 03/13/2015
H.M.

Balance Rudder, LH aileron and RH aileron. Surfaces were delivered to shop for balance.
Balanced Rudder at $-.75$ inlbs. (limits $+0.75$ to -3.75 inlbs). Balanced LH aileron at $-.50$ inlbs (limits $+.75$ to $-.75$ inlbs). Balanced RH aileron at $+.25$ inlbs (limits $+.75$ to $-.75$ inlbs). Surfaces returned to customer.
Reference: Cessna 414 MM 16-12 to 16-18.

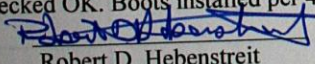
With respect to the work referenced here, this aircraft has been found safe for return to service; reference the Associated Aero Service work order number 21824.



For Associated Aero Service
Robert D. Hebenstreit

Cessna 414 S/N 414-0258 N 3VA 04/20/2015
H.M.

Removed LH and RH horizontal de-ice boots. Removed adhesive and cleaned leading edge for installation of new boots. S/N off UKN both sides. Coated surface with 1300L adhesive and installed new SMR de-ice boots LH, SMR2074-2-1, s/n 1231, C/D 4Q13. RH, SMR2074-2-1, s/n 1253, C/D 4Q14. Sealed edges of boots with CS3201A1/2 black and static discharge paint SMR56B. Reassembled boot hook ups and tested, Checked OK. Boots installed per 414MM 13-39 to 13-40G and SMR report No.97-33-047.



Robert D. Hebenstreit
A&P 3355961

IN SERVICE	OVERHAUL	TIME								
TOTALS brought forward from previous page										
Calvin Taff Electronics, Inc. N3VA Cessna 414 SN 414-0258 Hobbs 1920.7 May 1, 2015 <u>Removed</u> GX50 GPS, KY96A Com, MD41-728 Annunciator/Switch, 51R-7A VOR/LOC and 51V-5 G/S. <u>Installed</u> GNS430W PN 011-01060-00 SN 23401567 with GA35 PN 013-00235-00 SN 114352. <u>See</u> 337's this date for details. <u>Exchanged</u> VIR-30A PN 622-0876-002 SN 20329 for VIR-30A PN 622-0876-002 SN 3472 and changed it to the #2 Nav radio. <u>Exchanged</u> 328A-3G PN 522-2644-011 SN 3929 for 328A-3G PN 522-2644-013 SN 11058. <u>Replaced</u> panel light on/off switch. Installation completed with reference to AC43.13-1B Chapter 10-1, 2, 16, 20 Chapter 12-1, 2 and AC43.13-2B Chapter 1-111,112,113 Chapter 2-202,203,207,208, Chapter 3-310, 312 and Chapter 11-1104, 1105. Aircraft weight and balance was computed and placed in aircraft flight manual. <table border="0"> <tr> <td>New Empty Weight</td> <td>4866.78;</td> <td>New CG</td> <td>158.58</td> </tr> <tr> <td>New Moment</td> <td>771773.23;</td> <td>New Useful Load</td> <td>1898.22</td> </tr> </table> Calvin Christopher Taff cc 516 IX2R914K			New Empty Weight	4866.78;	New CG	158.58	New Moment	771773.23;	New Useful Load	1898.22
New Empty Weight	4866.78;	New CG	158.58							
New Moment	771773.23;	New Useful Load	1898.22							

INTERIORS UNLIMITED, INC.
5604 Philip J. Rhoads Ave.
Wiley Post Airport, Hanger #3
Bethany, OK 73008

The aircraft and/or component identified below was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service.

Work Order No. I-1540

A-3142113

May 22, 2015

Richard D. Harris
 SIGNATURE OF AUTHORIZED INDIVIDUAL

DATE

Tach Time:
S/N-414-0258

Cessna 414
N3VA

Removed interior and recovered all seats, side panels, replaced headliner, curtains and carpets. Replaced all seat belts and shoulder harnesses with new from C&M Marine Aviation Services, Inc. to match. Re-installed interior as original configuration. Replaced wing lockers material with new. All materials used meet or exceed all applicable section of FAR 23.853.

Seat Leather:	Citation Arena Sand
Sidepanel Fabric:	Pebblebrook PB-49
Upper Sidepanel leather:	Citation Arena Sand
Headliner:	ULFR3482 Linen Ultraleather
Window and Divider Curtains:	Artic Camelot - Merlin
Carpet:	Aviator - Federal Blue
Lap belts & Shoulder harnesses:	CM225 Tan
Wing and Nose baggage:	Macropoint - Grey

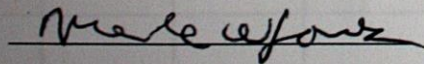
Townsend Leather Co.
Paul Brayton Fabrics
Townsend Leather Co.
Tapis Corporation
Tapis Corporation
Aircraft Interior Products, Inc.
C&M Marine Aviation Services, Inc.
G. Baker Steeves, Corp.

SUB-TOTALS this page

TOTALS brought forward from previous page

July 10th, 2015. N3VA, S/N 414-0258. Tach 1920.7. Both engines removed for overhaul, and reinstalled after overhaul by D&B Aircraft Engines, W/O 16228 & 16246. Aircraft partially painted by Valair, W/O Q15-00100. Ailerons and rudder removed for paint, balanced after paint by Associated Aero W/O 21824. Installed control surfaces with proper hardware as per 414 MM. Replaced both propeller control cables, RAM P/N 1220-15 & 1220-16. Replaced RH Throttle cable, RAM P/N 1220-12. Replaced air intake ducts L&R P/N CM3211-10A6.5, & CM3211-10B35.0. Replaced L&R horizontal tail de ice boots with new Ice Shield P/N SMR2074-2-1, by Dale Hebenstreth. Cleaned, inspected, and repainted wheels, packed wheel bearings, installed and balanced new main tires, 650X10 8 ply Airhawk. Inspected, and lubricated landing gear. Perform retract test, normal and emergency, found satisfactory. Checked all lights, stall, warning, gear warning, and pitot heat. Removed oxygen bottle and reinstalled after hydrostatic test by Aerospace Turbine Rotables, W/O WI64882. Serviced with oxygen. Test and inspect heater, heater HM 366.6. Next pressure decay test due at 466.5 or 7-2016. Replaced ELT battery and tested IAW FAR 91-207d, next due replacement July 2017. Replaced RH Co Pilot side window with LP Aero P/N 1153CL. Removed air conditioner compressor, replaced seal and serviced with ester oil and reinstall, replaced left expansion valve, replaced receiver dryer, serviced air conditioner with 134A. Installed new Gill G246 battery. Replaced left wing locker transfer pump P/N 4140-00-153NV, Overhauled by Quality Aircraft W/O 0088151. Replaced all fuel cap "O" rings. Cleaned fuel strainers and installed new "O" rings. Installed serviceable Propellers model PHC-CY3/FC7693DF, with 676 hrs since new. Left S/N 060390, Right 051416. Checked all AD's see attached list.

I Certify That This Aircraft Has Been Inspected In Accordance With An Annual Inspection And Found to Be In Airworthy Condition. Aircraft TT 5045.7



Merle W. Jones IA 1451989

IN SERVICE	SINCE OVERHAUL	TIME								
Calvin Taff Electronics, Inc. N3VA Cessna 414 SN 414-0258 Hour 1923.4 October 12, 2015 <u>Removed</u> VIR30, PM1000 II, G-3884, KY96A and KMA24. <u>Installed</u> GTN650 PN 011-02256-00 SN 1Z8018841. See 337 this date for details. <u>Installed</u> GA35 PN 013-00235-00 SN 117685 at F.S. 145.00 to interface with GTN650 <u>IAW</u> STRONG Aero Engineering DWG N3VA-091715-1 REV N/C dated 9/17/2015. <u>Installed</u> GTX330ES PN 011-00455-60 SN 84149817. See 337 this date for details. <u>Installed</u> PMA8000BT PN 050-890-0702 SN CBT3635 referencing PS Engineering DOC 200-890-1702 Rev 2 dated May 2015. Instructions for continued airworthiness for the PM8000BT is Appendix E of the installation manual and section 4.2 for the MD25-260. Installation completed with reference to AC43.13-1B Chapter 10-1, 2, 16, 20 Chapter 12-1, 2 and AC43.13-2B Chapter 1-111,112,113 Chapter 2-202,203,207,208, Chapter 3-310, 312 and Chapter 11-1104, 1105. Aircraft weight and balance was computed and placed in aircraft flight manual. <table border="0"> <tr> <td>New Empty Weight</td> <td>4866.50;</td> <td>New CG</td> <td>158.60</td> </tr> <tr> <td>New Moment</td> <td>771813.61;</td> <td>New Useful Load</td> <td>1898.50</td> </tr> </table> Calvin Christopher Taff CC-318 IX2R914K			New Empty Weight	4866.50;	New CG	158.60	New Moment	771813.61;	New Useful Load	1898.50
New Empty Weight	4866.50;	New CG	158.60							
New Moment	771813.61;	New Useful Load	1898.50							

INTERIORS UNLIMITED, INC.
5604 Philip J. Rhoads Ave.
Wiley Post Airport, Hanger #3
Bethany, OK 73008

The aircraft and/or component identified below was repaired and inspected in accordance with current Federal Aviation Regulations and was found to be airworthy for return to service.

Work Order No. I-1547 A-3142113 October 16, 2015

Michael J. Harris
 SIGNATURE OF AUTHORIZED INDIVIDUAL DATE

Tach Time: **Cessna 414**
S/N-414-0258 **N3VA**

Removed sidepanels and recovered with new materials and re-installed. Removed cabinetry and refinished with new laminate materials and re-installed. Removed all window and divider curtains and replaced with new materials and re-installed. Removed all carpets and replaced with new carpet and re-installed. Re-installed interior as original configuration. All materials used meet or exceed all applicable section of FAR 25.853.

Sidepanel Leather:	Citation Arena Sand	Townsend Leather Co.
Sidepanel Fabric:	Battery - #59 Power	G. Baker Steeves Corp.
Window and Divider Curtains:	Battery - #59 Power	G. Baker Steeves Corp.
Carpet:	Heather Forever II- Woodsmoke	Aircraft Interior Products, Inc.
Cabinetry:	Laminate - Swirly Mahogany	Laminart

TOTALS brought forward from previous page

November 1st, 2015. Cessna 414-N3VA S/N 414-0258, HM 1925.4, Aircraft Total Time 5050.4. Aircraft completed Annual inspection during avionics and interior installation. Installed heated windshield panel, P/N 42-0118K on Pilot windshield. Installed In Accordance with Aviation Fabricators, Inc STC # SA00103WI. Prepared form 337, W&B calculated and entered in POH. Replaced and balanced nose tire and tube, Airhawk 600X6. Packed wheel bearings and inspected brakes. Checked all lights, perform retract test, normal and emergency, lubricated landing gear. Replaced nose retract boot P/N 9910011-1, replaced all aileron cable seals (8) P/N S11K-4R. Replaced trim cable seals P/N S11K-3A. Replaced 3 floor drain seals, P/N CM3575-3. Replaced heater duct P/N CM3211-18A4.4. Service brake master cylinders W, Mil H 5606. Tested ELT IAW 91-207d, battery replacement due 7-2017. Checked all AD's, see attached list.

I Certify That This Aircraft Has Been Inspected In Accordance With An Annual Inspection And Has Been Found To Be In Airworthy Condition.

Merle W. Jones

Merle W. Jones 1451989IA



Repair Station #: W6NR985J

May 03, 2016

Registration #: N3VA
Manufacturer: Cessna
Part/Model number: 414
Work Order No: PST6293

Total AC Time: 106.8

Total AC Cycles:

Aircraft Serial Number: 414-0258
Date: 05/03/2016

Squawk

1.1

CW 50 HR INSPECTION, PERFORMED VISUAL WALK AROUND, OPERATIONAL CHECKED EXTERIOR LIGHTS, CHECKED TIRE WEAR AND BRAKE WEAR, SERVICED TIRES AS NEEDED, ALL WORK ACCOMPLISHED IAW CESSNA 414 MM, SECTION 2 AND CESSNA 414 POH.

1.2

1.3

SERVICED OXYGEN AS NEEDED WITH AVIATORS OXYGEN IAW CESSNA 414 MM, SECTION 2. CW MEB-27-02 PER INSTRUCTIONS, REMOVED EXISTING HARDWARE AND INSTALLED TWO NEW BOLTS P/N NAS464P3-8, TWO NEW WASHERS P/N NAS1149F0332P, TWO NEW NUTS P/N MS17826-3 AND TWO NEW COTTER PINS P/N MS24665-132.

1.4

1.5

1.6

RECOVERED .25 LBS OF R134A FREON FROM AIR CONDITIONING SYSTEM, PERFORMED VACUUM CHECK AND SYSTEM CHECKED SATISFACTORY, SERVICED WITH 2.5 LBS OF R134A FREON, ALL WORK ACCOMPLISHED IAW KELLY AEROSPACE R134A INSTALLATION / MAINTENANCE MANUAL. CW AD2016-07-24 PER MEB-27-02 INSTRUCTIONS, NEXT INSPECTION DUE ON OR BEFORE MAY 2017 OR 2081.8 HRS WHICHEVER OCCURS FIRST. REMOVED LH AND RH ALTERNATOR OUT SENSORS, INSTALLED NEW SENSORS P/N 9910094-1 S/N 4396 ON LH ALTERNATOR, S/N 4414 ON RH ALTERNATOR, ALL WORK ACCOMPLISHED IAW CESSNA 414 MM, SECTION 14.

CONTINUED NEXT PAGE



Registration	Manufacturer	Model	Serial Number	Hobbs
N3VA	Cessna	414	414-0258	1930

- Installed two overhauled deice shuttle valves part # H674-02A-2 Serial # - N10-7237 (L/H), SP2-8630 (R/H), units overhauled by Ametek B&S Aircraft Parts and Accessories under WO R13-03738 and R14-03882 respectively.
-Repaired broken nacelle fuel transfer pump wire under instrument panel.

Maintenance Release

The Aircraft and/or component(s) with respect to the jobs above have been repaired and/or inspected in accordance with current FAA regulations and have been found airworthy for return to service.

DATE: 12/10/2015

Signature: _____

AP3493768



Registration	Manufacturer	Model	Serial Number	Hobbs
N3VA	Cessna	414	414-0258	1957

- Installed new 480564E, R/H Aux tank transfer fuel pump IAW STC instructions. Operational check performed.
-Installed new 462-021 R/H Aux tank fuel sender gasket. Leak check good.

Maintenance Release

The Aircraft and/or component(s) with respect to the jobs above have been repaired and/or inspected in accordance with current FAA regulations and have been found airworthy for return to service.

DATE: 2/11/2016

Signature: _____

AP3493768



Repair Station #: W6NR985J

June 08, 2016

Registration #: N3VA
 Manufacturer: Cessna
 Part/Model number: 414
 Work Order No: PST6379

Total AC Time: 5,127.3

Total AC Cycles:

Aircraft Serial Number: 414-0258
 Date: 06/08/2016

Pa

Sq

1.7

1.8

2.9

Squawk

1.1

REMOVED DEFECTIVE LEFT AUX FUEL PUMP ASSEMBLY, INSTALLED OVERHAULED FUEL PUMP ASSEMBLY P/N 1C6-10 S/N 3BE17, OPERATIONAL AND LEAK CHECKED SATISFACTORY, WORK IAW CESSNA 414 MM, SECTION 11.

1.2

REMOVED PITCH TURN CONTROLLER AND INSTALLED OVERHAULED UPDATED UNIT P/N 622-3246-001 S/N 154, GROUND CHECKED SATISFACTORY, WORK IAW COLINS AP106/107 FLIGHT CONTROL MM.

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST6379.

Al

Th

ap

Signature

For Winner Aviation Repair Station #W6NR985J

Skymark Aviation LLC

P.O. Box 188
 Horner, WV 26372

Registration	Manufacturer	Model	Serial Number	Time
N3VA	Cessna	414	414-0258	HOBBS TIME 2071.9

REMOVED COLLINS FLIGHT DIR INDICATOR P/N 622-1352-002 S/N 1295, FOR REPAIR, RA U92RL.
 INSTALLED DUNCAN AVIATION LOANER FLIGHT DIR S/N 310, WO YXWHA. GRD OPS CHECKED.

Maintenance Release

The Airframe listed above has been inspected and or repaired and has been found airworthy for return to service.

Date: October 20, 2016

Authorized Signature:



Repair Station #: W6NR985J

June 29, 2016

Registration #: N3VA
 Manufacturer: Cessna
 Part/Model number: 414
 Work Order No: PST6387

Total AC Time: 5,143.1

Total AC Cycles:

Aircraft Serial Number: 414-0258

Date: 06/29/2016

Squawk

1.1

REMOVED DEFECTIVE LEFT FUEL PUMP, INSTALLED AN OVERHAULED PUMP P/N A8150-B S/N 87787 AND SECURED, PUMP OPERATIONAL CHECKS SATISFACTORY, ALL WORK ACCOMPLISHED IAW CESSNA 414 MM, SECTION 11.

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST6387.

Signature

For Winner Aviation Repair Station #W6NR985J



Repair Station #: W6NR985J

May 03, 2016

Registration #: N3VA
 Manufacturer: Cessna
 Part/Model number: 414
 Work Order No: PST6293

Total AC Time: 5,106.8

Total AC Cycles:

Aircraft Serial Number: 414-0258

Date: 05/03/2016

Squawk

- 1.7 TBS LH ENGINE CHT INDICATION ERRATIC IN FLIGHT. FOUND CHT PROBE WIRE BROKEN, REPAIRED BROKEN WIRE AS NECESSARY IAW AC43.13
- 1.8 REMOVED TEN BURNT BULBS FROM POST LIGHTS, INSTALLED 10 NEW BULBS P/N 327, ALL WORK ACCOMPLISHED IAW CESSNA 414 MM. SECTION 14
- 2.9 TBS INTERMITTENT OPERATION OF AUTOPILOT, LOCATED AND RESET PITCH AND ROLL SERVO CLUTCH SLIP TORQUES AND SERVO DRIVE TORQUES, CHECKED TRIM/AUTO TRIM SYSTEM, CLEANED SWITCH CONTACTS IN AUTOPILOT PITCH / TURN CONTROLLER, SYSTEM GROUND CHECKED SATISFACTORY AFTER REPAIRS, ALL WORK ACCOMPLISHED IAW COLLINS AP106/107 MM AND SIL23-74 CESSNA 414 AIRCRAFT INSTALLATION.

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST6293.

Signature

For Winner Aviation Repair Station #W6NR985J

WIN_WorkOrderLogBook.rpt

Page 3 of 3

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WINNER AVIATION

YOUNGSTOWN-WARREN REGIONAL AIRPORT • VIENNA, OH 44473
 PHONE (330) 856-5000 • FAX: (330) 856-4582 • CRS W6NR985J

N 3VA S/N: 414-0258 TOTAL: 5217.1 DATE: 1-3-17

Tested as required by FAR 91.411, IAW 43, Appx. "E" (Para noted)

1. Static System per Para (b) To 30,000 Ft.2. L-Airdata P/N N/AS/N N/AL-ALT. P/N 5934PA-3S/N 4189523. R-Airdata P/N N/AS/N N/AR-ALT. P/N 5934PA-1S/N 704544. Sby ALT. P/N N/AS/N N/A5. Line items 2,3,4 certified per Para (b) to 30,000 FT.

6. Integrated System per Para (c)

Item No. 1,2,3,5,6Tested by R. Bacho

Date

WINNER AVIATION, CRS #

I certify that the ATC Transponder tests required by FAR 91.413 have been performed and found to comply with FAR 43 Appendix F

#1 make GARMINModel GTX300

S/N

#2 make KINGModel KT76A

S/N

Tested by R. BachoDate 1-3-17

WO

WINNER AVIATION, CRS # W

TOTALS—Carry forward

SCALE CORRECTIONS	
Altitude Reads	ADD Algebraically
0	0
1000	0
2000	0
3000	-5
4000	-15
6000	0
8000	+10
10000	+10
12000	+15
14000	+20
16000	+20

ALTIMETER No. 1	
Altitude Reads	ADD Algebraically
18000	0
20000	0
25000	-20
30000	-20
35000	
40000	
45000	
50000	
60000	
70000	
80000	

TESTED BY —

R. Bacho 1-3-17



Repair Station #: W6NR985J

January 06, 2017

Registration #: N3VA
Manufacturer: Cessna
Part/Model number: 414
Work Order No: PST6708

Total AC Time: 5,217.1

Total AC Cycles:

Aircraft Serial Number: 414-0258

Date: 01/06/2017

Squawk

- 1.1 CW ANNUAL INSPECTION USING CESSNA 414 INSPECTION FORM OUTLINED IN SECTION 2 AS A GUIDELINE.
CW COMPRESSION CHECK WITH RESULTS AS FOLLOWS-
LEFT ENGINE - #1 - 71/80 #2 - 74/80 #3 - 76/80 #4 - 75/80 #5 - 74/80 #6 - 75/80
RIGHT ENGINE - #1 - 75/80 #2 - 77/80 #3 - 75/80 #4 - 77/80 #5 - 76/80 #6 - 78/80
ADS CHECKED THRU 2016-26
- 1.2 REMOVED AIRCRAFT MAIN BATTERY, SERVICED AND REINSTALLED, IAW CESSNA 414 MM, SECTION 2.
- 1.3 REMOVED EXISTING VACUUM FILTER AND INSTALLED NEW FILTER P/N RAB3-5-1 IAW CESSNA 414 MM, SECTION 2.
- 1.4 CW F.A.R. 91.207, PARA (D) PER AC43.13 WITH SATISFACTORY RESULTS AT THIS TIME.
- 1.5 CW WEIGHT CHECK OF PORTABLE FIRE EXTINGUISHER IAW BOTTLE INSTRUCTIONS AND FOUND TO BE WITHIN SERVICEABLE LIMITS AT THIS TIME.
- 1.6 CW 200 HOUR ITEMS IAW CESSNA 414 MM, SECTION 2.
- 1.7 REMOVED ELT BATTERY AND INSTALLED NEW BATTERY P/N BP-1010 IAW AC43.13. BATTERY EXPIRATION DATE IS FEBRUARY 2019.
- 1.8 REMOVED EXISTING FILTER, INSTALLED A NEW INSTRUMENT AIR FILTER P/N AM1035351A IAW CESSNA 414 MM, SECTION 2.
- 1.9 REMOVED EXISTING FILTER AND INSTALLED A NEW INDUCTION AIR FILTER P/N P12-8156 ON LEFT ENGINE IAW RAM AIRCRAFT INSTRUCTIONS.
- 1.10 REMOVED EXISTING FILTER AND INSTALLED A NEW INDUCTION AIR FILTER P/N P12-8156 ON RIGHT ENGINE IAW RAM AIRCRAFT INSTRUCTIONS.
- 1.11 CW AD2000-01-16, PARA (B)(C) AND (E) ON LEFT ENGINE IAW INSTRUCTIONS AND NO DEFECTS FOUND AT THIS TIME.
- 1.12 CW AD2000-01-16, PARA (B)(C) AND (E) ON RIGHT ENGINE IAW INSTRUCTIONS AND NO DEFECTS FOUND AT THIS TIME.
- 1.13 CW AD2004-21-05, HEATER DECAY TEST PER INSTRUCTIONS, HEATER FOUND TO BE WITHIN SERVICEABLE LIMITS.
- 1.14 CW AD2004-25-16, R1 HEATER FUEL SHUTOFF WITH SATISFACTORY RESULTS.
- 1.15 REMOVED LEFT ENGINE FIRE BOTTLE AND SENT OUT FOR HYDROSTATIC CHECK, REINSTALLED INSPECTED BOTTLE AFTER RETURN, IAW CESSNA 414 MM, SECTION 13.
- 1.16 REMOVED LEFT ENGINE FIRE BOTTLE SQUIB, INSTALLED A NEW SQUIB P/N AE13083-5 IAW CESSNA 414 MM, SECTION 13.
- 1.17 REMOVED RIGHT ENGINE FIRE BOTTLE AND SENT OUT FOR HYDROSTATIC CHECK, REINSTALLED INSPECTED BOTTLE AFTER RETURN, IAW CESSNA 414 MM, SECTION 13.
- 1.18 REMOVED RIGHT ENGINE FIRE BOTTLE SQUIB, INSTALLED A NEW SQUIB P/N AE13083-5 IAW CESSNA 414 MM, SECTION 13.
- 1.19 REPAIRED PITOT/STATIC LEAKS AS REQUIRED, SYSTEM CHECKED GOOD AFTER REPAIRS, IAW AC43.13-1B PITOT / STATIC SYSTEM, SECTION 4, CHAPTER 12.
- 1.20 REMOVED AND REPLACED ATTITUDE GYRO WITH OVERHAULED EXCHANGE UNIT P/N 792-6694-001 S/N 7430 DUE TO INTERMITTENT PITCH OUTPUT, REPAIRED SEVERAL AUTOPILOT RELATED GROUNDS AS NEEDED, SYSTEM OPERATIONAL CHECKED GOOD, ALL WORK ACCOMPLISHED IAW COLLINS FCS106-107 MM.
- 1.21 RESEALED RH TIP TANK NUT PLATES AS NEEDED IAW CESSNA 414 MM, SECTION 11.
- 1.22 REMOVED DEFECTIVE RH ENGINE FIRE EXTINGUISHER GAUGE AND INSTALLED AN OVERHAULED GAUGE P/N 33370500 S/N 2177, OPERATIONAL CHECKS GOOD, ALL WORK ACCOMPLISHED IAW CESSNA 414 MM, SECTION 13.
- 1.23 REMOVED AND REPLACED BOTH TRANSPONDER PULSE ANTENNAS WITH NEW IAW AC43-13-2B, CH 3.
FORWARD P/N C1105-16 S/N 37348, AFT P/N C1105-16 S/N 37349

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST6708.

Signature

For Winner Aviation Repair Station #W6NR985J



Repair Station #: W6NR985J

June 13, 2017

Registration #: N3VA
Manufacturer: Cessna
Part/Model number: 414
Work Order No: AVN6884

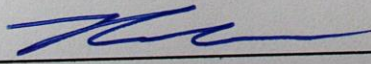
Total AC Time: 5,233.8
Total AC Cycles:
Aircraft Serial Number: 414-0258
Date: 06/13/2017

Squawk

- 1.1 REMOVED VERTICAL GYRO P/N 792-6694-001 S/N 7430 AND INSTALLED SERVICEABLE UNIT P/N 792-6694-002 S/N C077. INSPECTED IAW COLLINS 332D MANUAL 522-3985-001 AND AC43.13-1B, CHAPTER 11
- 1.2 REMOVED AND REPLACED 913K-1 FD/AP COMPUTER WITH OVERHAULED UNIT P/N 622-0966-001 S/N 494, OPERATIONAL CHECKED SATISFACTORY, IAW COLLINS AP106/107 MM AND SL23-74.
- 1.3 PERFORMED AIRCONDITIONING SYSTEM SERVICE, SERVICED UNIT WITH 2.0 LBS OF R134 FREON, PRESSURIZED SYSTEM TO PERFORM LEAK CHECK, LEAK CHECKED SATISFACTORY, CLEANED TERMINAL FOR BLOWER MOTOR UNDER PILOTS SEAT AND RECONNECTED, OPERATIONAL CHECKED BLOWER MOTOR SATISFACTORY, ALL WORK ACCOMPLISHED IAW AIRCONDITIONING SERVICE MANUAL.
- 1.4 GROUND PRESSURIZED AIRCRAFT, FOUND LEAKS TO BE COMING FROM CABLE PASS THRU'S, SEALED LEAKS AND PRESSURIZED WITH SATISFACTORY RESULTS, ALL WORK ACCOMPLISHED IAW 414 MM, SECTION 13.
- 1.5 INSTALLED DOUBLER AND NEW RIVNUT TO SECURE PASSENGER #1 AFT FACING SEAT ARMREST AS REQUIRED.

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number AVN6884.


Signature

For Winner Aviation Repair Station #W6NR985J

AIRCRAFT SERIAL NUMBER: 414-0258



Registration	Manufacturer	Model	Serial Number	Hobbs
N3VA	Cessna	414	414-0258	2103.4

-Installed R/H boost pump, part # 1C6-10 Serial # 75272, overhauled by Fleet Support Services under WO P016-1957. Installed using new gaskets and stato-seals. Leak check performed, low pressure setting checked.

Maintenance Release

The Aircraft and/or component(s) with respect to the jobs above have been repaired and/or inspected in accordance with current FAA regulations and have been found airworthy for return to service.

DATE: 03/08/2017

Signature: _____

AP3493768



Registration	Manufacturer	Model	Serial Number	Hobbs
N3VA	Cessna	414	414-0258	2107.6

-Installed R/H boost pump, part # 1C6-10 Serial # 75273, overhauled by Fleet Support Services under WO P016-1957. Installed using new gask Leak check performed, low pressure setting checked.

Maintenance Release

The Aircraft and/or component(s) with respect to the jobs above have been repaired and/or inspected in accordance with current FAA regulations and have been found airworthy for return to service.

DATE: 03/23/2017

Signature: _____

AP3493768



Repair Station #: W6NR985J

October 30, 2017

Registration #: N3VA
Manufacturer: Cessna
Part/Model number: 414
Work Order No: PST7130

Total AC Time: 5,310.2

Total AC Cycles:

Aircraft Serial Number: 414-0258

Date: 10/30/2017

Squawk

1.1

REMOVED LEFT WING LANDING LIGHT BULB, INSTALLED NEW BULB P/N 4553, CHECKED SATISFACTORY. ALL WORK ACCOMPLISHED IAW MFG MM.

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST7130.

Signature: _____

For Winner Aviation Repair Station #W6NR985J



Repair Station #: W6NR985J

February 09, 2018

Registration #: N3VA
Manufacturer: Cessna
Part/Model number: 414
Work Order No: PST7259

Total AC Time: 5,334.3

Total AC Cycles:

Aircraft Serial Number: 414-0258

Date: 02/09/2018

Squawk

- 1.1 CW ANNUAL INSPECTION USING CESSNA 414 INSPECTION FORM OUTLINED IN SECTION 2 AS A GUIDELINE, CW COMPRESSION CHECKS LEFT AND RIGHT ENGINES WITH SATISFACTORY RESULTS. AD'S CHECKED THRU 2018-03
- 1.2 REMOVED AIRCRAFT BATTERY, SERVICED AND REINSTALLED, IAW CESSNA 414 MM, SECTION 2.
- 1.3 REMOVED EXISTING VACUUM FILTER AND INSTALLED NEW FILTER P/N RAB3-5-1 IAW CESSNA 414 AMM, SEC 2.
- 1.4 CW F.A.R. 91.207, PARA (D), ANNUAL ELT OPERATION AND CORROSION INSPECTION. NO FAULTS FOUND. WORK IAW AC 43.13 1B.2B PARA 12-22. BATTERY EXP 3/2020.
- 1.5 CW WEIGH CHECK OF PORTABLE FIRE EXTINGUISHER IAW MANUFACTURERS MAINTENANCE REQUIREMENTS. NO DEFECTS NOTED. DOM 2017
- 1.6 CW 400 HOUR / 12 MONTH INSPECTION ITEMS IAW CESSNA 414 SERVICE MANUAL.
- 1.7 CW 600 HOUR / 12 MONTH INSPECTION ITEMS, ALL WORK ACCOMPLISHED IAW CESSNA 414 SERVICE MANUAL.
- 1.8 REMOVED PORTABLE FIRE EXTINGUISHER AND INSTALLED NEW EXTINGUISHER P/N C352TS. DOM 2017.
- 1.9 CW AD84-26-02, REMOVED LEFT ENGINE INDUCTION AIR FILTER AND INSTALLED NEW FILTER P/N P12-8156 IAW RAM AIRCRAFT INSTRUCTIONS.
- 1.10 CW AD84-26-02, REMOVED RIGHT ENGINE INDUCTION AIR FILTER AND INSTALLED NEW FILTER P/N P12-8156 IAW RAM AIRCRAFT INSTRUCTIONS.
- 1.11 CW AD2000-01-16, PARA (B),(C), AND (E) INSPECTION, LEFT EXHAUST, NO DEFECTS NOTED AT THIS TIME.
- 1.12 CW AD2000-01-16, PARA (B),(C), AND (E) INSPECTION, RIGHT EXHAUST, NO DEFECTS NOTED AT THIS TIME.
- 1.13 CW AD2004-25-16 HEATER FUEL SHUTOFF INSPECTION WITH SATISFACTORY RESULTS
- 1.14 CW AD2016-17-08 ELEVATOR HARDWARE INSPECTION WITH SATISFACTORY RESULTS, IAW MEB27-02
- 1.15 REMOVED AND REPLACED AUTOPILOT CONTROLLER WITH OVERHAULED P/N 622-0966-001 S/N 157 IAW COLLINS AP106/107 MM AND SL23-74.
- 1.16 REPAIRED BROKEN WIRE ON MANUAL TRIM SWITCH, CLEANED AND REPAIRED TRIM SWITCH ON YOKE, ALL WORK ACCOMPLISHED IAW AC43.13-1B.
- 1.17 REMOVED WORN LH MAIN LANDING GEAR BRAKE LININGS AND INSTALLED NEW LININGS P/N 066-06600, IAW CESSNA 414, CH 32.
- 1.18 REMOVED LH AND RH PROP DE-ICE BRUSHES, INSTALLED NEW P/N B40012, IAW CHAPTER 61, CESSNA 414 AMM.
- 1.19 REMOVED ELT BATTERY AND INSTALLED NEW BATTERY P/N BP1010 IAW MFG RECOMMENDATIONS, OPERATIONAL CHECKED SATISFACTORY. EXP - 3/2020
- 1.20 REMOVED AND REPLACED WORN ELEVATOR PULLEY WITH NEW P/N MCS378-3 IAW CESSNA 414 AMM CH 27
- 1.21 REMOVED DEGRADED HOSES AND INSTALLED NEW P/N SCEET6 HOSES ON JANITROL HEATER IAW MFG RECOMMENDATIONS.
- 1.22 REMOVED PILOTS CLOCK AND INSTALLED NEW CLOCK P/N LC-2 S/N 67478, OPERATIONAL CHECKED SATISFACTORY IAW LC-2 DIGITAL CHRONOMETER OPERATING INSTRUCTIONS AT500675, REV D.
- 1.23 REMOVED BROKEN HINGE, INSTALLED A NEW HINGE P/N MS20001-10-7200 ON LEFT MAIN LANDING GEAR DOOR, IAW CESSNA 414 MM, SECTION 4 AND 16.
- 1.24 REMOVED AND REPLACED DE-ICE TIMING SWITCH WITH NEW P/N 3D1748-2, S/N G149. IAW CESSNA 414 SERIES MM 3-42B OPS CHECK SATISFACTORY.

All Work Performed I.A.W. Cessna 414 Appropriate Data.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number PST7259.

Signature

For Winner Aviation Repair Station #W6NR985J

SUB-TOTALS this page

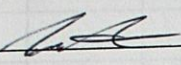


Registration	Manufacturer	Model	Serial Number	Hobbs, ACTT
N3VA	Cessna	414	414-0258	2267.5, 5392.5

-C/W AD2000-01-16 Par B, visual inspection of exhaust system, L/H and R/H, next due 5442.5 ACTT.
Maintenance Release

The Aircraft and/or component(s) with respect to the jobs above have been repaired and/or inspected in accordance with current FAA regulations and have been found airworthy for return to service

DATE: 05/29/2018

Signature: 

AP3493768



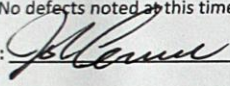
DATE: 30 OCT 2018

REG#: N3VA

SN: 414-0258

AC HOBBS: 2359.2 ACTT: 5484.2

Removed RH and LH MLG tires and tubes with serviceable tires and tubes. C/W AD 00-01-16 Par (B),(C) and (E) on LH and RH exhaust. No defects noted at this time. Next due: 5534.2 ACTT.

Signature: 

Certificate: AP3066142

Date: 30 OCT 2018



1150 Airport Road, Fairmont WV 26554

DATE: 02 APR 2019

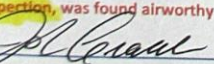
REG#: N3VA

AC SN: 414-0258

ACTT: 5484.2

HOBBS: 2421.6

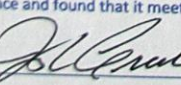
Complied with AD 2016-17-08 Elevator Hardware Inspection. No defects noted. Complied with AD 84-26-02 Air Induction filter, by replacement of Induction Air filter PN P12-8156 on both engines (LH & RH). AD 04-21-05 Heater Decay Pressure Test due. Placard heater Inop as per AD instructions. Complied with AD 00-10-16 Par B, C and E. Next due: 2471.6 Hobbs. Complied with AD 04-25-16 Heater Shutoff valve. No defects noted at this time. Replaced RH Prop Governor with overhauled governor from QAA Inc PN: DCFS290D9A/T3 SN: 960261 WO#049440. Replaced LH Prop Governor with overhauled governor from QAA Inc PN: DCFS290D9A/T3 SN: 970018 WO# 036990. Replaced Alternator Sensor PN: 9910094-1 SN: 4407. Resealed RH main tank nuts. Replaced Narco ELT 10 with serviceable unit. PN: ELT 10 SN: 44132 WO# N3VA. Performed normal retraction and extension test. No defects noted. Performed emergency landing gear extension check. No defects noted. Serviced brake master cylinders. ADs researched thru IA Approach. This Aircraft has been inspected in accordance with a (an) Annual inspection, was found airworthy and has been approved for return to service.

Signature: 

Certificate: AP3066142 DA

Date: 02 APR 2019

I have inspected ELT-10 SN: 44132 ELT system in this Aircraft according to applicable Aircraft and ELT manufactures instructions and applicable FAA guidance and found that it meets the requirements of FAR 91.207(d). ELT Expiration date: MAY 19

Signature: 

Certificate: AP3066142 DA

Date: 02 APR 2019

Altitude Reads	Room Temp. °C	ADD Algebraically
0	0	
1000	-10	
2000	0	
3000	0	
4000	0	
6000	+20	
8000	+30	
10000	+30	
12000	+30	
14000	+40	
16000	+40	

The altimeter test was performed with the altimeter an integral part of the aircraft static system, following the guidelines established in AC 43-203B.
 Aircraft No. N3VA Static System No. #1 ACT
 Date 5/23/19 Tested By: [Signature]
 Pittsburgh Air Radio
 FAA # AZ1R026K
 FORM PAR 04

Altitude Reads	Room Temp. °C	ADD Algebraically
18000	+50	
20000	+50	
25000	+30	
30000	+50	
35000		
40000		
45000		
50000		
60000		
70000		
80000		

Altitude Reads	Room Temp. °C	ADD Algebraically
0	+80	
0	+90	
0	+110	
0	+120	

Integral part of the aircraft
 C 43-203B
 n No. #2 ACT
 FORM PAR 04

DESCRIPTION OF WORK PERFORMED—
 INDICATE NO. OF PERSON PERFORMING WORK

From previous date

BURGH AIR RADIO INC.
 PENNSYLVANIA COUNTY AIRPORT
 ST MIFFLIN, PA 15122
 412-469-8400
 F.A.A. AZ1R026K

3VA
18 (16 hrs)

Date: 5/23/19
 W/O # 63007

ALL TESTS AND INSPECTIONS HAVE BEEN
 THE TRANSPONDER TESTS REQUIRED BY FAR
 APPENDIX F OF PART 43. Mode S O.K.
#1 Transponder only

AIRFRAME LOG ENTRY

N3VA Cessna CE-414 Serial No. 414-0258
 Date 06/11/19 HOBBS: 2440.8 ACTT: 5565.8

Replaced ELT battery P/N BP-1010. Performed ELT inspection I/A/W FAR 91.207D. No defects noted at this time. ELT battery expires Aug 2021. Adjusted both propeller governor high stops IAW Cessna 414 service manual Sec.10-8. Ops check good. Investigation of fuel flow issue on right engine found air filter housing to have opened and filter restricting air flow into the turbine inlet. Reinstalled same serviceable filter element and safetied housing. Also safetied filter housing on left engine. Performed ground run for leak check and power assurance. No defects noted at this time. All work performed IAW Cessna CE-414/414A Service Manual D778-34-13 REV 34 dated Aug 1 2002.

- Performed 12 month visual inspection of the wiring, hardware and mount installation. Performed operational inspection of GTN 650 as per Garmin GTN 650 Instructions for Continued Airworthiness Document 190-01007-A1 Rev7. Sec.4. no defects noted at this time. Next due by 6/20
- Performed 12 month visual inspection of the wiring, hardware and mount installation. Performed operational inspection of GTX 330 as per Garmin GTX 650 Instructions for Continued Airworthiness Document 190-00734-11 Rev2 Sec4.. no defects noted at this time. Next due by 6/20
- Performed 12 month visual inspection of the wiring, hardware and mount installation. Performed operational inspection of GNS 430. As Per Garmin GNS 430W Instructions for Continued Airworthiness Document 190-00356-65 Rev.D. no defects noted at this time. Next due by 6/20
- Performed 12 month visual inspection of the wiring, hardware and mount installation. Performed operational inspection of heated windshield plate as per Aviation Fabricators Instructions for Continued Airworthiness Document AF-501 rev (IR). Found Placards required by STC to be missing. Fabricated placards and installed in air craft as required by STC SA00103W1. Next due by 6/20
- C/W AD 00-01-16 eff date 2/15/00 by inspection of outboard engine beam and canted bulkheads on both left and right engines as per part (d) of AD 00-01-16. No defects noted at this time. Next due at 6065.8 actt
- C/W AD 04-25-16 R1 eff date 06/20/05 by inspection and test of the heater regulator shut off valve as per part 1(e) of the AD. No defects noted. Next due 06/20 or 5665.8 actt.
- C/W AD 04-21-05 eff date 11/19/04 by inspection and pressure test of the heater combustion chamber as per part 1(i)(ii) of AD and Janitrol service manual. No defects noted. Next due 06/2021 or 563.3 HEATER HOBBS whichever occurs first.

[Signature] T. Goldsmith 2622999 A&P

PITTSBURGH AIR RADIO INC.
ALLEGHENY COUNTY AIRPORT
WEST MIFFLIN, PA 15122
412-469-8400
F.A.A. AZ1R026K

A/C Reg. # N3VA
ACTT: 2440.8 (Hobbs)

Date: 5/23/18
W/O # 63007

THE FOLLOWING TESTS AND INSPECTIONS HAVE BEEN PERFORMED:
THE STATIC SYSTEM, ALTIMETER AND THE ALTITUDE REPORTING
TEST REQUIRED BY FAR 91.411 IAW APPENDIX E OF PART 43. THE
ALTIMETER WAS TESTED TO 20000 FEET.

gdy H1 AND H2 Actuators O.K

DESCRIPTION OF WORK PERFORMED—
NATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

ht forward from previous page



PITTSBURGH AIR RADIO INC.
ALLEGHENY COUNTY AIRPORT
WEST MIFFLIN, PA 15122
412-469-8400
F.A.A. AZ1R026K

A/C Reg. # N3VA
ACTT: 2440.8 (Hobbs)

Date: 5/23/19
W/O # 63007

THE FOLLOWING TESTS AND INSPECTIONS HAVE BEEN
PERFORMED: THE TRANSPONDER TESTS REQUIRED BY FAR
91.413 I.A.W. APPENDIX F OF PART 43. *Made S.O.K*

July #1 Transponder only

AIRFRAME LOG ENTRY

N3VA Cessna CE-414 Serial No. 414-0258
Date 06/11/19 HOBBS: 2440.8 ACTT: 5565.8

Replaced ELT battery P/N BP-1010. Performed ELT inspection I/A/W FAR 91.207D. No defects noted at this time. ELT battery expires Aug 2021. Adjusted both propeller governor high stops IAW Cessna 414 service manual Sec.10-8. Ops check good. Investigation of fuel flow issue on right engine found air filter housing to have opened and filter restricting air flow into the turbine inlet. Reinstalled same serviceable filter element and safetied housing. Also safetied filter housing on left engine. Performed ground run for leak check and power assurance. No defects noted at this time. All work performed IAW Cessna CE-414/414A Service Manual D778-34-13 REV 34 dated Aug 1 2002.

- Performed 12 month visual inspection of the wiring, hardware and mount installation. Performed operational inspection of GTN 650, as per Garmin GTN 650 Instructions for Continued Airworthiness Document 190-01007-A1 Rev7. Sec.4. no defects noted at this time. Next due by 6/20

DATE	IN SERVICE	SINCE OVERHAUL	METER TIME	SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page

N3VA (Aircraft Logs)
Cessna 414 s/n 414-0258

Service A/C with 2.5 lb. Freon R134.
 Replaced De-ice light circuit breaker switch #W31-X2M1G-5 Cleaned main fuel bowls and reinstalled with new gaskets and attach screws.
 Replaced cap gasket in right tip tank transfer pump. Replaced Orings in left wing main fuel drain.
 Rerigged aileron cable tensions, and aileron travels to specs.
 Rerigged flap system cable tensions, limit switches, panel travels and warning switch to specifications.
 Rerigged elevator trim travels to specifications. Rerigged elevator and rudder/nose gear steering cable, to specs.
 Rerigger rudder trim travels and rudder cable tensions to spec.
CW Cessna SB MEB00-4 Rudder Hinge Bearing Inspection/Replacement.
 Found lower bearing bracket installed upside down and bearing retention damaged. Installed new #5131010-3 bearing plate assy. per service bulletin. Reinstalled rudder and rerigged rudder trim travels/ cable tension
 Retorqued LH/RH main forging bracket and trunnion attach bolts.
 Rebuilt right side drag link with new 0841202-1 bushing, 5041003-1 spacer, 5041003-2 bushing NAS77-10-045 bushing, S132-10P17 bushing, S132-10P24 bushing, NAS464P7-29.
 Replaced right main aft torque tube attach bolt with new AN320-5
 Rebuilt Left/Right main landing gear torque links with new S1450-5H12-063 and installed correct brake line clamp TA607D13.
 Replaced Left and Right MLG brake disc with new RA164-20306 and new pads #066-06600
 Installed and replaced various landing gear well seal and replaced loose and missing fume proofing in inner gear wells. Replaced left/right main gear outer gear door hinge with new hinge and replaced door rod end mw-3. .
 Reinstalled right main landing gear drive rod in correct orientation direction. Replaced missing rivet heads from fork bolt incorrect installation with new HL18PB5-6 and blended moderate wall scrapes.
 Removed shimmy damper and disassembled cleaned and resealed with new Orings and reserviced.
 Removed and rebushed nose gear intermediate belcrank with ne 5045210-1 bushing and AN4-31A bolt.
 Repaired crack on right wing rib at w.s. #75.21 at aft side of front spar radiating from cut out for torque tube tongue clearance hole aft. Stop drilled crack Fabricated and installed overlay support doubler patch of 2024T3-063" (next gauge heavier material) 4.75" height x 4.5" length with couture relief for existing rib cut outs. (per AC43.13-1B Para 4-58 fig 4-14 item (c) . Add in 27 locations (per 43.13-1B para 4-58g) MS20470AD4-xx rivets. Epoxy primed repair parts and fay-seal area.
CW Cessna CAP31-10-02 (SID32-10-02) Main Landing Gear Bell Crank Pivot Bolt by replacing left/right main landing gear lock link pivot bolts. (Repeat each 500 landing or 3 years)
Re-rigged, lubricated and gear emergency operation of landing gear system per Cessna 414 Maintenance Manual.
CW AD2000-01-16 Effective Date Feb 15, 2000 (Supersedes AD75-23-08R5) Exhaust system inspection.
CW Para (b) exhaust visual inspection. Cleaned and reset right engine turbo overboard pipe and retorqued attach clamp.
 (Next Inspection Due in 50 hr. at Hobbs 2508.1)
CW para (e) Pressure test exhaust system. No damage found (Due again in 12 calendar months at Sep. 2020)

DATE 9/25/2019

HOBBS 2458.1

Aircraft TT ~~5520.7~~ 5583.1

Heater Time 463.3 "Janitrol"

The aircraft identified was repaired and/or serviced in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.



Anthony R. Saxton AP32537461A

N3VA (Aircraft Logs)

Cessna 414 s/n 414-0258

Disassembled forward left tip tank and replaced front access gasket and new attach screw stat-o-seal washers. Removed filler cap access panel and replaced gasket and sealed with PRC due to misfit of cover.

DATE 10/15/2019

HOBBS 2465.5

Aircraft TT 5590.5

The aircraft identified was repaired and/or serviced in accordance with current Federal Aviation Administration regulations and is hereby approved for return to service with respect to work performed.



Brent Wiemken AP3642904

Page No

DATE

AIR TRAVEL MANAGEMENT LLC

890 Airport Road

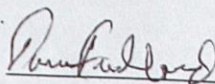
Lemont Furnace PA 15456

Airframe Log Entry

Cessna 414 N3VA Serial No. 414-0258

Date: 01/07/2020 ²⁰²⁰ **HOBBS: 2476.5 ACTT: 5601.5 HHOBBS: 465.3**

1. Removed Sealed ship battery PN 601-G246
2. Replaced with new serviceable sealed ship battery 601-G246 s/n G03058030 IAW AC 43.13-2B page 109 par 1008.
3. Ops check normal. No defects noted at this time.



Tom Fullard 3345731AP

AIR TRAVEL MANAGEMENT LLC

890 Airport Road

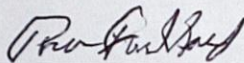
Lemont Furnace PA 15456

Airframe Log Entry

Cessna 414 N3VA Serial No. 414-0258

Date: 01/07/2020 **HOBBS: 2476.5 ACTT: 5601.5 HHOBBS: 465.3**

1. Removed Pilot side artificial horizon PN RCA-21-23 SN 27755 routed for repair.
2. Replaced serviceable Artificial Horizon received after repair (see attached form 100A), PN RCA-21-23 SN 27755.
3. All work completed IAW AC 43.13-1B Chap 12-1, 12-2.
4. Ops check normal. No defects noted at this time for above listed repairs. Aircraft returned to service.



Tom Fullard 3345731AP

AIR TRAVEL MANAGEMENT LLC

890 Airport Road

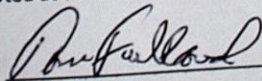
Lemont Furnace PA 15456

Airframe Log Entry

Cessna 414 N3VA Serial No. 414-0258

Date: 01/29/2020 **HOBBS: 2483.9 ACTT: 5608.9 HHOBBS: 465.3**

1. Removed Right side Aux Fuel Pump PN CA6508092-1A SN- unknown (tag missing)..
2. Replaced Ride side Aux Fuel Pump with new serviceable Pump PN CA6508092-1A SN 1185.serviceable
3. All work completed IAW Piper SM Sec 11-14.
4. Ops check normal. No defects noted at this time for above listed repairs. Aircraft returned to service.



Tom Fullard 3345731AP

AIR TRAVEL MANAGEMENT LLC

890 Airport Road

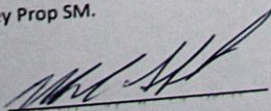
Lemont Furnace PA 15456

Airframe Log Entry

Cessna 414 N3VA Serial No. 414-0258

Date: 02/06/2020 **HOBBS: 2483.9 ACTT: 5608.9 HHOBBS: 465.3**

1. Removed Right Prop routed to Prop Shop for repair.
2. Work completed IAW McCauley Prop SM.



Mark Shipley AP3267378

NO. _____
ATE _____

AIR TRAVEL MANAGEMENT LLC

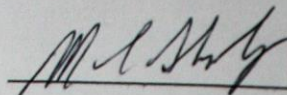
890 Airport Road
Lemont Furnace PA 15456

Airframe Log Entry

Cessna 414 N3VA Serial No. 414-0258

Date: 02/26/2020 HOBBS: 2483.9 ACTT: 5608.9 HHOBBS: 465.3

1. Reinstalled Right Prop as received back from Prop Shop for repair.
2. Work completed IAW McCauley Prop SM.



Mark Shipley AP3267378

_____MING WORK

BOOMTOWN AVIATION LLC.
OKLAHOMA CITY, OKLAHOMA

JAMES "BOCK" TYLER, A&P, IA
WILEY POST AIRPORT, NORMAN
NUMBER 15032

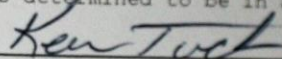
9 March 2020

Cessna 414, s/n 414-00258, N3VA
Hobbs 2490.0, ACTT 5552.6

100-HOUR INSPECTION was performed IAW **CESSNA** service manual and FAR 43, apdx D. ELT battery change due at Aug 2021, C/W FAR 91.207, ELT function test & inspection. Greased & lubed A/C, grease bearings in L/G, performed gear swings, emergency gear extension, serviced accumulator pressure & checked gear horn and lights. Serviced ship's main batteries and check load. Checked cable tensions & and adjusted as needed. Checked all lights, pitot heat & stall warning horn on A/C. Replaced Welen power supply for the strobe system. Replaced vacuum filter, p/n RAB3-5-1. Removed and cleaned fuel filters.

"I certify that this **AIRCRAFT** has been inspected in accordance with **ANNUAL** inspection and was determined to be in airworthy condition."

Kevin Tucker A&P 4051467



BOOMTOWN AVIATION LLC.
OKLAHOMA CITY, OKLAHOMA

JAMES "BOCK" TYLER, A&P, IA
WILEY POST AIRPORT, NORMAN
NUMBER 15032

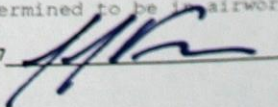
9 March 2020

Cessna 414, s/n 414-00258, N3VA
Hobbs 2490.0, ACTT 5552.6

AD 76-13-07, P/C/W, Next Due @ Hobbs 10009.7
AD 2004-21-05 C/W, due @ Heater Hobbs 663.3 or June 2021
AD 84-26-02 C/W, due @ Hobbs 2940.0
AD 2000-01-16,
-Part (b) C/W, due 9 April 2020 or Hobbs 2540.0, which ever is later.
-Part (c) & (e) C/W, due @ March 2020
-Part (d) P/C/W, @ ACTT 6068.8
-Part (f) P/C/W, @ ACTT 5545.0
-Part (g) P/C/W, @ ACTT 7513.6
AD 2016-17-08 C/W, due @ Hobbs 2600.0 or March 2021, whichever comes first

"I certify that this **AIRCRAFT** has been inspected in accordance with **ANNUAL INSPECTION** and was determined to be in airworthy condition."

James J. Tyler A&P IA, 3171337



TAC
RECC
ME
TI

Calvin Taff Electronics, Inc.

N3VA 414 SN 414-0258 Hour 2497.6 3-31-2020

Updated GTN650 to main software 6.70 in accordance with Garmin STC Service Bulletin #2006 Rev A dated January 10, 2020.

Updated GNS430W to software 5.40 in accordance with STC Service Bulletin #1766 Rev A dated December 7, 2017.

Updated GTX330 to software 8.04 in accordance with STC Service Bulletin #1804 Rev A dated January 12, 2018.

Installed USB port TA202 PN 6430202-15 SN J19-10458 to the left of the radio stack. Installed in reference to True Blue Power Manual 9017899 Rev G dated June 6, 2019. Weight and balance change is negligible.

This aircraft was repaired and inspected in accordance with current FAA regulations and is approved for return to service with respect to the work performed. Details are on file under work order number: 14984 and 14997.

Calvin Christopher Taff

CC Taff
IX2R914K