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N4AF

1968 CESSNA 421

RECORDS VOLUME

AIRFRAME LOGBOOKS

YEAR	REGISTRATION	SERIAL NO.
1968	N4AF	421-0142

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The Standard
AIRCRAFT LOG
ASA/SA-2



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asa PUBLICATIONS, INC.
6001 SIXTH AVENUE SO.
SEATTLE, WA 98108-3307

AIRCRAFT RECORD — GENERAL INFORMATION

MANUFACTURER Cessna MODEL 421 SERIAL 421-0142

REGISTRATION NUMBER N4AF DATE MFG. 1968

ENGINE(S) CURRENTLY INSTALLED.

MFG Continental / Lt MODEL GTSIO-520-D(21) SERIAL 219237-R

MFG Continental / Rt MODEL GTSIO-520-D(22) SERIAL 219344-R

PROPELLER(S) CURRENTLY INSTALLED.

MFG McCauley MODEL 3AF34C-92FP

HUB MODEL ____ SERIAL 4t682535 SERIAL 4t682540

BLADE MODEL C-92 SERIAL ____ SERIAL ____ SERIAL ____

BLADE MODEL C-92 SERIAL ____ SERIAL ____ SERIAL ____

The Standard
AIRCRAFT LOG

REGISTERED OWNER RECORD

NAME BEVERLY L. HANDZLIK ADDRESS 36052 HARDENBURG

CITY FARMINGTON HILLS STATE MICHIGAN FROM 19 APR 1988 TO

NAME ADDRESS

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NOTES

DATE 1989	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6/5				I THOMAS W HANDZLIK CERTIFY TO THE BEST OF MY KNOWLEDGE THROUGH PAST RESEARCH AND DISSCUSIONS WITH THE PREVIOUS OWNER THAT THIS AIRCRAFT had APPROXIMATELY 2400 TTAF when THE original Log Books were LOST. Thomas W Handzlik Cert 3651658261 Christina L. Goodhue CHRISTINA L. GOODHUE Notary Public, Livingston County, MI My Commission Expires Jan. 27, 1990

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6/6/89				INSPECTED AIRCRAFT PER PRE FLIGHT INSPECTION AS PER II D OF A/C FOUND AIRWORTHY FOR THE INTENDED FLIGHT FROM 6D8 TO HOWELL LIVINGSTON CO. AIRPORT MICH. ON. NOTE AD'S 72-22-01 & 73-22-14 73-23-08R5 HAVE BEEN EXCUSED PER ATTACHED LETTER FOR THIS FLIGHT D Handzlik AMA 223545

*

N4AF Cessna 421 S/N 421-0142 12/03/88

Annual inspection completed this date, and determined aircraft to be unairworthy due to the following discrepancies:

1. Right auxiliary fuel tank sump leaking
2. Right main fuel tank drain leaking
3. Right main fuel tank has rear rib crack
4. Right navigation light burned out
5. Severe surface corrosion under left & right wing flap area
6. All de-ice boots need surface areas patched & repaired
7. Flop system rod ends have excessive end play
8. Left engine exhaust missing heat shield
9. Left & right wing locker missing lock assembly
10. Fuel selector placards illegible
11. Left & right fuel selector valves not properly directing fuel; fuel is passing through valve
12. Heater fuel pump missing screen & gasket
13. Heater fuel valve leaking
14. Left & right vacuum filters need replaced
15. Left & right de-ice filters need replaced
16. Fuel line chafe on left wing leading edge
17. Aileron trim tab has worn belt bushing
18. Main cabin door & nose baggage door need seals repaired & replaced
19. 02 bottle needs hydro static test & system pressure checked
20. Left, right, & nose tires need replaced due to dry rot
21. Brake assemblies

22. Entire landing gear retraction system needs rigging

23. Excessive wear in elevator trim actuator

24. Rudder static wick broken

25. Tail strobe inoperable

26. Left & right engine air filters need replaced. (84-26-02 AD)

27. Radome rivets missing & needs to be sealed

28. Battery box corroded; drains plugged

29. Front seat belts bushing missing

30. Right landing light breaker cracked & inoperable

31. Compass leaking fluid

32. Aircraft exterior I.D. plate missing

33. Cabin door cable broken

34. Lens for pilot seat aisle missing

35. Control wheel map lens missing

36. Dual EGT gauge lens cracked

37. Miscellaneous instrument lights burned out

38. Top & bottom beacon lights burned out

39. Co-pilot seat base cracked

40. Wing ice light needs repaired

41. Left engine oil screen missing

42. Left mixture cable inoperable

43. Left & right engine inlet hoses rolled out

44. Magneto points corroded

45. Left & right miscellaneous engine baffle seals damaged

46. Aircraft needs weight & balance performed

47. P. O. H. needs to be in aircraft

48. Aircraft needs radio station license

49. AD listing in back of logbook needs complied with

12/3/88 N40F [illegible] 1222454 Determined unairworthy for

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
12-29-89				REPLACED RH. AUXILIARY FUEL TANK SUMP DRAIN & GASKET; REPLACED RH. MAIN FUEL TANK DRAIN & GASKET; REPLACED REAR TANK BRACKET ON RH. TIP TANK; REPLACED RH. NAV. LIGHT; REPAIRED CORROSION UNDER L & R WING FLAP AERA; REPAIRED MINOR DE-ICE BOOT LEAKS; REPLACED WORN BOLTS ON FLAP CONTROL ARMS; REPLACED MISSING HEAT SHIELD ON LH. EXHAUST; REPLACED L & R WING LOCKER LOCKS; REPLACED FUEL SELECTOR PLACARDS; INSPECTED FUEL SLECTOR VALVE FOR PROPER FUEL FLOW, NO LEAK BY WAS NOTED; REPLACED HEATER FUEL PUMP SCREEN & GASKET; REBUILT HEATER FUEL VALVE; REPLACED L&R VACUUM FILTERS; REPLACED L & R DE-ICE FILTERS; CORRECTED FUEL LINE CHAFE IN LH. WING; REPLACED WORN BOLT ON AILERON TRIM TAB; INSPECTED MAIN CABIN DOOR SEAL REPLACED HOSE BAGGAGE AND WING LOCKER SEALS; HAD O2 BOTTLE HYDRO STATICLY TESTED SEE TAG; REPLACED ALL TIRES & TUBS; REPAIRED HYD. LEAKS ON BOTH BRAKES MINOR CORRSION CORRECTED DURING NORMAL USE; FIXED LANDING GEAR RETRACT SYSTEM & DOORS;

NEXT PAGE →

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				REPLACED DOWN LOCK SWITCH ON LH. MAIN GEAR; RETRACT TEST WAS GOOD. REBUILT ELEV. TRIM ACTUATOR PER. MFG SPECS; RUDDER STATIC WICK ON ORDER NOT EMERGENCY ITEM; REPLACED WITH NEW THE TAIL STROBE POWER PACK; REPLACED L & R INDUCTION FILTERS TO C/W AD. 84-26-02; REPAIRED RAYDOME RIVITS AND SEALED; UNPLUGED BATTERY BOX DRAIN & PAINTED, REPLACED MISSING FRONT SEAT BELT BUSHING RH. SIDE; REPLACE RH. LANDING LIGHT BRACKET; INSTALLED COMPASS REPAIR KIT; INSTALLED A/C I.D. DATA PLATE TO C/W FAR 45-11; REPAIRED CABIN DOOR CABLE; REPLACED LENS ON AISLE LIGHTS FRONT SEAT BASES; REPLACED LENS ON CONTROL WHEEL MAP LIGHT; E.G.T LENS IS CRACKED, GAGE FUNCTIONS PROPERLY MUST BE C/W; REPLACED MISCELLANEOUS INSTRUMENT LIGHTS; REPAIRED TOP & BOTTOM BEACONS; REPAIRED MINOR CRACK IN CO-PILOTS SEAT BASE; REPLACED WING DE-ICE LIGHT ASSY; REPLACED MISSING LH. ENGINE OIL SCREEN; REPLACED LH. MIXTURE CABLE; REPLACED L & R INDUCTION INLET HOSES; CLEANED MAGNETO POINTS; REPAIRED MISC. BAFFEL SEALS,

NEXT PAGE →

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WELCOMED	A/C	AND	PERFORMED W&B NOTE: SAME AS LAST COMPUTED W&B. SEE 337 FORM; PUT POH IN A/C; SENT IN A/C RADIO LICENSE; TROUBLE SHOOT VOLTAGE REGULATOR SYSTEM REPAIRED BAD WIRING; CLEANED MISC. AVIONICS & ELECTRICAL CONECTIONS; C/W AD 72-2-1 PER "D" BY TO & PUNCH; 72-3-7 CHEM TEST GEAR; 75-23-8 RES TUBE & CLAMP INSPECTIONS; REPLACED ALL INSPECTOR SEALS. INSTALLED FUEL CAP RESTRICTORS & CAPS. AD 82-21-2 R1 REWIRED HEATER & TESTED O.K.; REPLACED NOSE GEAR UP-LOCK SPRING; INSTALLED FUEL DRAIN/BOWL KIT ON LH WING; AIRCRAFT WAS TEST FLOWN NO FUEL OR OIL LEAKS WERE NOTED ALL SYSTEM CHECK SATISFACTORY. NO ADVERS FLIGHT CONDITIONS; ALL INAIRWORTHY ITEMS STATED 12-3-88 HAVE BEEN COMPLIED WITH AIRCRAFT IS RETURNED TO SERVICE. John Crowley A&P 6041253.	

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12-27-89	Rewigled A/C with full fuel. RH main 2636 LH main 2661 nose 926 - 1176 full full empty E.G. 153.42 useful Load 1793. R&R RH Magnator out sensor Serviced O_2. R&R LH tach generator. ops check okay. Dale A Ford CR&C08416 General Aviation Inc WO# M7678			
2-6-90	INSTALLED LH. ALT AIR CABLE WITH NEW. P/N 514468-7 AND John Crowley			
12-6-90	V/I. insp props missing. A/C Stuck in mud. Brakes leaking. Several cables frozen. Several gauges inop. Accessed pertent panels pertaining to flight. Serviced tires & Brakes And all others Fluids. fuel sleaves binding - Removed & Replaced. Insp landing Gear for possable damage. Inspect fuel Cells And System for leaks and proper operation. Replaced several fuel drains. Insp & ck All Controll surfaces for defletion. Flaps for operation. Replaced batt and installed missing HARDWARE. performed static System elc. Insp and			

DATE 19 90	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Cont.		Lubed	all	cables. Installed elt Bat.
		Insp	A/c	Lighting System and Repaired As NESSARY
		Insp	Heater	And performed ops ck
		All	ADS	Complied with.
				FERRY permit issued 12-6-90
		OK to	—	Fly A/c Gear down ONLY VFR Under
				10 Kt cross wind — Cecil Derry Aap 375666343
		Open	A/c	for insp performed Gear test per m/m 32
		Rebuilt	Y/H	& P/H Brake Assys - ck AD on Gear.
		Dye	ck	method. Replaced main fuel quantity gauge
		Replaced	static	wicks. Replaced Vacum filters
		Removed	&	Had Cal. both Air speed Ind's
		Removed	&	Had Cal both Alt ind Installed all Hose
		And	static	ck.
				Repaired O2 system. cked. Auto Pak System
				Cecil Derry Aap 375666343

DATE 19 90	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
		Trouble	shot	AC inverters And Repaired wiring
		Installed		placards as needed for flight And
		Eng	opp.	Installed Calibrated Tachometer Repaired
		Check	to	OAT gauge - drained And serviced
		Y/H	&	Nose oleo Struts Cecil Derry Aap 375666343
				Repaired Elm Ext And performed opp test.
				trouble shot Y/H Alt. Repaired broken wire
				Replace Dash shock mounts. Copilots
				turn & bank in Gimbal play Repaired.
				patch Deice boots. Repaired Latch
				in door. - Replaced Nomeus Cam Locks
				on Ent covers. Installed Led clock.
				Replaced Y/H stroke light.
				Cecil Derry Aap 375666343

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2-3-90	TACH			ELT DO AT 12-91.
				I certify that this aircraft has been inspected in accordance with a annual inspection and was found to be in a airworthy condition at this time Danny Sojewski A&P IA 2216547
				Static System Okd. no leaks found — 2-3-91
2-3-91				A/C was closed after insp and a list of def. was given to owner as a/c was taken apart a 100 HR Insp was complyed with and was found to be in accordance a 100 HR inspeton. and was found to be in Airworthy Condition at this time
				End Cecil Terry A&P 375666343

DATE 1991	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
2-3-				A/C CRAFT was washed and removal all nessary covers for inspection gear swung and lubed. Tork gear light swich ops OK Normal all work done in accordance with cessna S/M
				Cecil Terry 375666343 IA&P

DATE 1991	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

CHRYSLER PENTASTAR AVIATION

7310 E. Highland Road
Waterford, MI 48327

BTVD626C

LOG BOOK ENTRY

DATE 6-27-91 REG # 4AF T.T. 3,5 HM,
W.O. 308364 S/N 0142 TLDG.
MAKE Cessna MODEL 421
ENG/PROP S/N TSN CSN
POSITION TSO CSO

AIRFRAME LOG ENTRY

Installed factory new wing flap motor PN 9910070-1 SN 1249. Adjusted limit switches in accordance with mfg. Maintenance Manual. Wing flap system operations checked normal. Troubleshot inoperative left alternator. Owner advised alternator not turning. Possible broken drive assembly. No further action taken. No airworthiness release on this item.

----------END----------

THE AIRCRAFT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND ONLY THAT WORK PERFORMED IS APPROVED FOR RETURN TO SERVICE. DETAILS OF WORK ACCOMPLISHED ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER 308364.

SIGNED: Claude Evans DATE: 6-27-91

FOR:

F.A.A. APPROVED REPAIR STATION BTVD626C
7310 E. HIGHLAND RD.
WATERFORD, MI 48327

N/C LOG IN HERE

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

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				TAS OF DEFIANCE AVIATION, INC. ROUTE 1, 07557 ST. RT. 15 DEFIANCE, OHIO 43512 (419) 658-2818 N4AF 9/4/91 Hobbs 11.2 Complied with Service Bulletin MEB88-3 Revision 2, by installation of SK421-138D1 and SK421-139B. Repaired cabin door support arm attach point. Patch repair deince boots. Lubricated landing gear. Anthony R. Saxton AP270560767IA Anthony R Saxton

A/C LOG N 70F

DATE 1991	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
12-2-91	132.	N/A	2413.2	CHANGED OXYGEN TUBE FROM FILLER TO OXYGEN VALVE. CHANGED OXYGEN FILLER VALVE. REBUILD L. MAIN STRUT. STRAIGHTEN RUDDER TRIM JACK-SCREW. INSTALLED NEW PERM SILKOTER FLOOD LITES. BLENDED OUT RUDDER + RESHOLD ALL LIGHTEN HOLES. OUTSIDE AIR TEMP GAUGE OVERHAULED + REINSTALLED. ADJUSTED E.G.T INSTRUMENT. Frank Daly AP/1370675
12-3-91	13.2	N/A	2413.2	INSTALLED ELT BAT. ELT BAT change DUE 12-92 REPLACE ELT BATTERY BY: NOV 9 2 Frank A. Daly Comm 3637633881

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1-13	15.7	N/A	2415.7	

AVIATION CENTER
719 Airport Dr.
ANN ARBOR, MICHIGAN 48108
(313) 662-6806

1-13-92 N4AF LOG ENTRY
Replaced O-rings on oleo piston. Replaced 2 O-rings on orifice tube.(RIGHT MAIN GEAR) Washed strut. Serviced to specs with 5606 & nitrogen. Lubed gear.

John Fol A+P 385647801

The ATC transponder was tested and inspected on

1 / 22 / 92 and found to comply with 91.413 Part 43, Appendix F Automatic altitude reporting equipment

was tested and calibrated on 1 / 22 / 92 in compliance of 91.411 FAR 43, Appendix E, Paragraph (C). to 30,000 ft.

W O Number 1567

Signature Carl D. Rose

TOP FLIGHT AVIONICS, INC.
(313) 666-1777 C.R.S TFGR831K

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
02-07	25.0	N/A	2425.0	

CHRYSLER PENTASTAR AVIATION
7310 E. Highland Road
Waterford, MI 48327

BTVD626C

LOG BOOK ENTRY

DATE 02/07/92 REG # N4AF T.T. 2425
W.O. 341209 S/N 0142 TLDG. UNK
MAKE Cessna MODEL 421
ENG/PROP S/N ____ TSN ____ CSN ____
POSITION ____ TSO ____ CSO ____

1. Removed Wilcox transponder 1014A P/N 097768-0101 S/N2807, installed CPA loaner unit P/N 097768-0100 S/N 806, ramp checked ok.

----------END----------

THE AIRCRAFT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND ONLY THAT WORK PERFORMED IS APPROVED FOR RETURN TO SERVICE. DETAILS OF WORK ACCOMPLISHED ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER 341209.

SIGNED: [signature] DATE: 2-7-92

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
02-07	25.0	N/A	2425.0	
				ATC TRANSPONDER TEST AND INSPECTIONS, REQUIRED BY FAR 91.413, IN ACCORDANCE WITH FAR 43, APPENDIX F, HAVE BEEN PERFORMED.
				TRANSPONDER #1 WILCOX 1014A S/N 806
				TRANSPONDER #2 NA S/N
				BY: Jim Power DATE 2/7/92 WO# 341209
				CHRYSLER PENTASTAR AVIATION.
				FAA REPAIR STATION BTVD626C
10-9	60.3		2460.3	Status ck preformed and a/c leaked. Apendix C to 30,000 ft
				A/C washed and nessary covers removed for inspection gear survey and emg extension preformed.
				Inspection was done in accordance with 43.13 Apendix D
				A.D's complyied with to date

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				exhaust pressure test - fuel lines test
				test flew a/c and all eng
				indications were normal.
				this aircraft is approved for
				IFR flight see alt and FAR. required
				on previous log page's END
				Date 6-9-92 TT 2460.3 TSMO N/A (L) 566.3 (R) 660.3
				I certify that this aircraft or engine has been inspec.
				in accordance with a Annual hr. inspection and was
				found to be in an airworthy condition
				Signed: Carl Terry
				Cert. #: 2396066 I-A

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

CHRYSLER PENTASTAR AVIATION

7310 E. Highland Road
Waterford, MI 48327

BTVD626C

LOG BOOK ENTRY
aircraft

DATE 6-5-92 REG # N4AF T.T. 49.1 Hobbs
W.O. 341463 S/N 421-0142 TLDG. -
MAKE Cessna MODEL 421
ENG/PROP S/N _____ TSN _____ CSN _____
POSITION _____ TSO _____ CSO _____

1. Removed loaner TPX p/n 097768-0100 s/n 806. Installed overhauled exchanged TPX p/n 097768-~~1010~~-0101 s/n 3409. Ramp check IAW FAR Part 43 App. F in compliance with FAR 91.413.
end

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SIGNED: Kenneth Johnson DATE: 6-5-92

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

CHRYSLER PENTASTAR AVIATION

7310 E. Highland Road
Waterford, MI 48327

BTVD626C

AIRCRAFT
LOG BOOK ENTRY

DATE 9-14-92 REG # N4AF HOBBS T.T. 51.4
W.O. 341709 S/N 421-0142 TLDG. UNK.
MAKE CESSNA MODEL 421
ENG/PROP S/N _____ TSN _____ CSN _____
POSITION _____ TSO _____ CSO _____

1]REMOVED ATC TXP P/N 097768-0101 S/N 3409 FOR REPAIR.REINSTALLED REPAIRED UNIT,SAME P/N & S/N.SYSTEM CHECKED GOOD I/A/W F.A.R.91.413.

---------- END ----------

THE Aircraft IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND ONLY THAT WORK PERFORMED IS APPROVED FOR RETURN TO SERVICE. DETAILS OF WORK ACCOMPLISHED ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER 341709.

SIGNED: [signature] DATE: 9-14-92

DATE 1992	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
11-10	66.3		2466.3	The static pressure system and altimeter(s) were inspected and tested on 11 10 92 to an altitude of 20 thousand feet and found to comply with FAR 91.411. W.O. NUMBER 26347 SIGNATURE [signature] **MICHIGAN AVIATION CO.** 1-313-666-3440 No. CRS # KL2R956K
				Installed Pilots Astro Jet 12
11-10	66.3		2466.3	Check to Cabin C/B. V.G. Pilots Check good. Michigan Av. [signature]
12-1	67.0	—	2467.0	INSTALLED ELT BAT. ELT BAT CHANGE DUE 12-93 [signature] conn 368763881

DATE 1993	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
1-25	67.0		2467.0	1/25/93 Hobbs 670 Replaced Drain Line on Wastegate Controller Valve, And also Repaired crack in breather tube. Wasted Engine And Leaked check. For Michigan Aviation CRS KL2R956K [signature] A+P 210580876

DATE 1993	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
6-11	175	—	2575	Hobbs ~~2400~~ 175 N.R.R. June 11, 1993 C/W A/D 75-23-8 lt and rt eng exhaust system insp. and clamp change (multi-segment) next insp. due in 50 hours. Next clamp change due in 400 hours. For Michigan Aviation RS KL2R956K Howard K. Howells A&P 172323248 Howard K. Howells
MAY 19, 1997				I certify that this aircraft is safe for a flight From Pontiac Mi. to Detroit City Airport as outlined in special flight Permit which expires MAY 23, 1997. W. Stopion A&P 383769772.

DATE 19—	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

ALTERNATIVE AVIATION SERVICES INC.
CRS OA5R086N 6544 Highland Road Waterford, MI 48327

Date 5/22/97

Reg. No. N4AF Ser. No. 0142

WO No. 9435 Hours 2500

Installed encoding altimeter 5035-P23 serial no. 2109 and sensitive altimeter 671BU-010 serial no. C868. Repaired static system leaks and performed static system certification I.A.W. FAR 91.411. Removed transponder 1014A serial no. 3409 and installed serviceable 1014A serial no. 1519. Performed transponder certification I.A.W. FAR 91.413.

The aircraft and/or component identified above was repaired and inspected in accordance with current air regulations and found airworthy for return to service.
Alternative Aviation Services Inc.

CRS OA5R086N Inspector

W.O. # 9435 DATE 5/22/97

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
Sept 8	1997	at	93.0	hrs Hobbs - Completed routine maintenance in accordance with Cessna 421 service manual and an annual inspection checklist. Inspected all flight controls cables and pulley. Lubed airframe and gear, inspected wheel bearings and brakes. Jacked aircraft and performed retraction / extension tests including emergency extension. Serviced tires, battery and brake reserviors. ADs researched to date, complied with AD 75-23-08 and 97-01-13
				I certify that this annual aircraft has been inspected in accordance with a annual Inspection and was determined to be in airworthy condition. Carl Stapion A&P 3837699772-1A

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				IAI ISI Howell's Aircraft Service 3122 Great Southwest Parkway Grand Prairie Texas 75052 972-988-8609 Email Maint@howellsaircraft.com CESSNA STAR N4AF Date 11/17/98 Hobbs Time 102.1 Serviced brakes with hydrolic fluid, PN 5606. Serviced pressure in tires. Lubricated landing gear with Aeroshell 5 grease. Installed new landing light, PN GE4553. Installed new ELT battery, customer supplied part. Next due 11/2000. Installed ELT remote switch, PN PX28L6. Installed Loran C, customer supplied part. Installed rebuilt left magneto, PN BL349220-4. Operation check okay. All work completed in accordance with service manual. John D. Bell John Bell A&P 467085248

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS (ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
15				8/10/2009 N4AF S/N 0142 ACTT 2529.8 Hobbs 129.8 LH ENG TTSO 629.8 RH ENG TTSO 729.8
				c/w 100 hr insp C/W AD 76-02-07 alternator bearing inspection O2 bottle overhauled by Safetech w.o. XD10202 repaired LH landing light repaired nose taxi light wiring re-connected tail beacon wiring installed new RH eng air intake ducting p/n Scat-20 5" installed LH/RH eng baffle seals installed new LH/RH prop de-ice brushes p/n RA1306-1, RA1306-2 re-bonded NLG door skin LH/RH installed new LH bladder tanks p/n 4042-7, 4042-9, 4142-3 repaired RH aux tank leak lubricated LH fuel cap replaced LH/RH fuel cap o-rings p/n MS29513-232 removed and treated corrosion on LH I/B tank O/B rib installed new LH/RH tank drain valve p/n S2485-1 secured RH/LH L.E. wiring harness fabricated new RH aux tank pump feed line removed and treated RH aux I/B tank I/B rib surface corrosion secured glideslope antenna wiring harness at fwd bulkhead fwd bulkhead has surface corrosion at glideslope ant wiring harness repaired battery box and cover fabricated and installed new RH aux tank fuel sender adaptors repaired LH center aux tank sender flange installed new ELT batteries MN1300R4 installed new rivets RH engine nacell aft access panel retaining ring fabricated and installed new O2 service line at fwd pressure bulkhead installed new pitot probe seal at raydome removed and treated corrosion RH I/B tank sender flange installed new instrument vacume filter p/n EBG03-0001 THIS AIRCRAFT HAS BEEN INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURES MAINTENANCE PROGRAM. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE PERTAINING TO THE WORK PERFORMED ON THIS DATE. ERIC KELLER A&P 3428700 Eric Keller

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS (ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				08/12/2009 N4AF S/N 0142 ACTT 2529.8 Hobbs 129.8 Performed repair to fuselage bottom skin 24 inches right of centerline at F.S. 130.0 IAW MM Structural Repair Chapter 16 Figure16-20. Performed repair to LH & RH lower side rudder skins IAW MM Structural Repair Chapter 16 page 16-4 & Figure 16-56 and checked balance IAW Figure 16-9. Overhauled L&R main and nose landing gear struts IAW MM. CW AD 90-02-13 Main Landing Gear (one time). Installed Cessna part no. 5141109-1 bearings in L&R main struts. Replaced main gear fork bolts. CW AD 76-13-07 Fork Bolts next due: ACTT 4529.8. R&R nose gear trunion pivot bearings. Overhauled brake calipers IAW MM&IPC and serviced brake reservoirs. Cleaned, inspected and lubed main gear wheel bearings. Replaced and lubed nose wheel bearings and races. Serviced nose gear shimmy damper. Replaced worn or corroded hardware on nose and main gear components IAW IPC. Inspected gear components and repainted IAW MM. Rigged and lubricated landing gear IAW MM. Performed normal gear extension/retraction and emergency manual extension. All landing gear work was performed by Roberto Bonilla. R&R main ship battery with new Gill G-246 serviced IAW provided manufacturer instructions. Replaced LH turbocharger and bypass valve (wastegate) with overhauled units (see attached forms 8130-3). Installed new LH tailpipe clamp. Replaced hydraulic, fuel and oil hoses to L&R engines with Teflon lined hoses manufactured by Aviall (refer to attached work order). Eric Keller A+P 3165442 IA Continued

Annual Inspection List of Discrepancies

08/12/2009 Aircraft N4AF S/N 0142 ACTT 2529.8 Hobbs 129.8

1. Pilot windshield needs to be replaced prior to flight with the cabin pressurized.
2. Wing and tail surface de-ice boots need to be replaced prior to flight into icing conditions.
3. Pitot static system and transponder need to be re-certified IAW Part 91.411 & 91.413 prior to flight under IFR or into controlled airspace as required by regulation.
4. Fuel tanks missing placards indicating tank quantity and fuel type.
5. Landing gear emergency extension placard missing from cockpit floor area.
6. Various interior and exterior placards missing, installing temporary placards may be preferred prior to aircraft painting. Refer to the AFM for correct nomenclature of placards.

I have provided this list of discrepancies to Thomas Handzlik owner of Cessna 421 N4AF s/n 0142. The certification in accordance with an annual inspection of this aircraft as airworthy on 08/12/2009 by me is contingent upon the discrepancies listed above corrected prior to flight or into the flight conditions referenced above.

Dennis Tanker A&P 3165442 IA

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

08/12/2009 N4AF S/N 0142 ACTT 2529.8 Hobbs 129.8

CW	AD 2000-01-16 (b)	Exhaust System Visual Inspection L&R — Next due: ACTT 2579.8
CW	AD 2000-01-16 (c)	Exhaust System Tailpipes L&R — Next due: 08/12/2010
CW	AD 2000-01-16 (d)	Exhaust System Beams & Bulkheads L&R — Next due: ACTT 3029.8
CW	AD 2000-01-16 (e)	Exhaust System Pressure Test L&R — Next due: 08/12/2010
	AD 2000-01-16 (f)	Exhaust System Multi Segment clamps L&R — Next due: ACTT 3075.0
CW	AD 2000-01-16 (g)	Exhaust System Remove & Inspect — Next due: ACTT 5029.8 or 08/2021

I have inspected this aircraft IAW Appendix D to Part 43 CFAR as pertains to scope and detail for an annual inspection referencing Cessna 421 Maintenance Manual and have provided a list of discrepancies to be corrected to the aircraft owner.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Dennis Tanker A&P3165442 IA

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

9/15/2009 N4AF S/N 0142 ACTT _____ Hobbs _____

Installed servicable LH aux fuel pump p/n 1C6-1 s/n 10T1353
Inspected and cleaned LH/RH fuel strainers and engine fuel control screens

THIS AIRCRAFT HAS BEEN INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURES MAINTENANCE PROGRAM. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE PERTAINING TO THE WORK PERFORMED ON THIS DATE.

ERIC KELLER
A&P 3428700

12/6/2009 N4AF S/N 0142 ACTT _____ Hobbs _____

Installed new LH unheated windshield p/n PAS5111604-203 s/n 8547, capped and stowed wiring.
Installed new windshield retainer p/n 5111602-3
Installed new pilot defroster duct p/n 5117107-3
Installed new defrost ducting p/n SCAT-10
Installed new standby compass p/n C660501-0401
Installed 11 ea. new instrument panel mounts p/n 0411059-1

THIS AIRCRAFT HAS BEEN INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURES MAINTENANCE PROGRAM. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE PERTAINING TO THE WORK PERFORMED ON THIS DATE.

ERIC KELLER
A&P 3428700

DATE 19__

N4AF
Cessna 421
S/N 0142

Airframe Log

12/22/2009
WO# 090929-1
Hobbs: 132.2

R OF RIES.)

Removed Attitude Indicator Model 329B-6D P/N 522-3071-00 S/N 299 and sent to vendor for repair. Reinstalled Overhauled Attitude Indicator same P/N and S/N. Removed Remote Attitude Gyro Model 332D-10 P/N 522-2576-00 S/N 25 and sent to vendor for repair. Reinstalled repaired Vertical Gyro same P/N and S/N. Ops checks good. Reassembled all affected areas. Repaired broken wire on ADI & HSI lighting Rheostat. Reassembled all affected areas. Ops checks good. Removed Transponder P/N 097768-0101 S/N 3409. Installed Serviceable Wilcox 1014A Transponder same P/N, S/N 1362. Reassembled all affected areas. Transponder system checks good.

Lloyd J. Timmons
Avionics 1st, Inc.
A&P 3394413

1/15/2010 N4AF S/N 0142 ACTT _____ Hobbs _____

Installed 2 ea. new resistor p/n D75K15R and and new attachment clips p/n 9SE-100, performed auxiliary fuel pump low adjustment, no defects noted

THIS AIRCRAFT HAS BEEN INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURES MAINTENANCE PROGRAM. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE PERTAINING TO THE WORK PERFORMED ON THIS DATE.

ERIC KELLER
A&P 3428700

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

AccuJet *Aircraft Maintenance Services*

MAKE: CESSNA **DATE: August 4, 2010**

MODEL: 421 **REG: N4AF** **S/N: 421-0142**

TAT: _____ HRS **LNDS: _____**

Removed all pneumatic de-ice boots and installed new pneumatic de-ice boot part numbers as follows:
L/H wing de-ice boot, P/N: SMR 2074-1-1, S/N: 1012
R/H wing de-ice boot, P/N: SMR2074-1-2, S/N: 1010
L/H horiz. stab. de-ice boot P/N: SMR2074-2-1, S/N: 1119
R/H horiz. stab. de-ice boot P/N: SMR2074-2-1, S/N: 1120
Vertical Stab. de-ice boot P/N: SMR2074-3-1, S/N: 1048
All work was done in accordance with SMR Technologies Pneumatic De-icer Installation and Maintenance Manual (SMR Report No. 97-33-047, dated November 5, 2004, rev. 8). This aircraft is approved for return to service in regards only to the work performed.

Scott L. Hill FAA A&P 3491952

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

09/03/2010 N4AF S/N 0142 ACTT 2571.2 Hobbs 171.2

Cleaned, inspected and lubed nose and main gear wheel bearings. Performed normal gear extension/retraction and emergency manual extension. Serviced main ship battery. Replaced ELT batteries.

CW AD 2000-01-16 (b)	Exhaust System Visual Inspection L&R	Next due: ACTT 2629.8
CW AD 2000-01-16 (c)	Exhaust System Tailpipes L&R	Next due: 09/03/2011
AD 2000-01-16 (d)	Exhaust System Beams & Bulkheads L&R	Next due: ACTT 3029.8
AD 2000-01-16 (e)	Exhaust System Pressure Test L&R	Next due: 08/12/2010
AD 2000-01-16 (f)	Exhaust System Multi Segment clamps L&R	Next due: ACTT 3075.0
AD 2000-01-16 (g)	Exhaust System Remove & Inspect	Next due: ACTT 5029.8 or 08/2021

I have inspected this aircraft IAW Appendix D to Part 43 CFAR as pertains to scope and detail for an annual inspection referencing Cessna 421 Maintenance Manual and have provided a list of discrepancies to be corrected to the aircraft owner.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Dennis Tanker A&P3165442 IA

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

S/N 0142 WRISTON AVIATION F.A.A. C.R.S. R2FR683J

AIRCRAFT- Cessna 421
TAIL NO.- N4AF
TACH. TIME- 171.3 Front Clock

Left : United 5934PAD-3
sn 478750

Right : United 5934PAD-3
sn 478732

Encoder : Transcend 330-120
sn N13670

Tighten loose Clittys on pitot tube and loose Clittys on static system pump, left & R VSI and Rt airspeed indicator. Pilot static system leak tested good

I CERTIFY THAT THE ALTIMETER AND STATIC SYSTEMS TEST AS REQUIRED BY FAR 91.411 HAVE BEEN PREFORMED IN ACCORDANCE WITH FAR 43 APPENDIX E. THE ALTIMETER WAS TESTED TO 30,000 FEET ON 11/10/2010 PERTINENT DETAILS OF THE TEST ARE ON FILE AT THIS AGENCY UNDER WORKORDER NO. 101007 DATE 11/10/2010 SIGNED _____ FOR WRISTON AVIATION C.R.S. No. R2FR683J

I CERTIFY THAT THIS TRANSPONDER MAKE Wilcox MODEL 1014A S/N 1362 AS INSTALLED IN THIS AIRCRAFT HAS BEEN TESTED AS REQUIRED BY FAR 91.413 IN ACCORDANCE WITH FAR 43 APPENDIX F ON THIS DATE 11/10/2010 TACH 171.3 Front PERTINENT DETAILS OF THE TEST ARE ON FILE AT THIS AGENCY UNDER WORKORDER NO. 101007 DATE 11/10/2010 SIGNED _____ FOR WRISTON AVIATION C.R.S. No. R2FR683J

RPS23540510
(214)212-0499

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

N4AF
Cessna 421
S/N 0142

Airframe Log

11/16/2010
WO# 101001-1
Acft Time:

Fabricated 2 each GPS antenna doublers, per data provided by DER. Installed 2 each CI-405 GPS antennas at F.S. 150, per approved DER data. Sealed antennas.
Removed 332D-10 Vertical Gyro P/N 522-2576-00, S/N 25 and 329B-6D Attitude Indicator P/N 522-3071-000, S/N 299. Sent both units to Executive Instruments for evaluation/repair. Received both serviceable units and reinstalled in aircraft (same P/Ns & S/Ns).
Removed all failed shock mounts on pilot and co-pilot side instrument panel. Installed new hardware and spacers on both sides.
Removed United Encoding Altimeter P/N 5035-P-P23 S/N 2109 for repair and Copilots P/N 671BU010 Altimeter for evaluation and possible repair. Both units where determined to be Non-Serviceable. Installed 2 each New United 30K Altimeters "3 Pointer Type" P/N's 5934PAD-3 Left side S/N 478750 & Right Side S/N 476732. Installed Blind Encoder Model SSD120-30N S/N N13670. Removed and replaced Aft Right Static Port Heater P/N CM2933-5. Reassembled all affected areas. See Wriston Aviation Work Order # 101007 for Inspection IAW FAR 91.411 & 413.
Removed Autopilot Power Adapter P/N 4000293-8503, S/N 1061 and Flight Controller P/N 4000256-8501, S/N 1111. Sent both units to vendor for evaluation and possible repair. Received repaired units and reinstalled in aircraft (same P/Ns & S/Ns).
Removed and replaced Autopilot disconnect switch.
Removed Rad Alt Indicator P/N 104-0006-00 S/N 6834 and Bonzer VME Adjustable Height Switch Model A70-2 P/N 156-0011-00 No S/N found.
Extended main Fuel Gauge Harness to relocate Indicator to location vacated by Radar Altimeter Indicator.
Reassembled all affected areas. Ops checks good.
Weight and Balance Change for work listed above is negligible.

Lloyd J. Timmons
Avionics 1st, Inc.
A&P 3394413

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

MAKE: Cessna
MODEL: 421
S/N 421-0142
REG. NO: N4AF
WORK ORDER:
5090-12-2010

DFW Aero Mechanix Inc.
In321 Addison Rd. Ste. 140
Addison, Texas 75001
Phone: 972.250.2403

DATE: 12/15/2010

Airframe Entries

Repaired heater temp control switch and reinstalled on heater duct

SIGNED: Jun Prado
Juan Prado A&P 3023434[illegible]

Work Order: 5090-12-2010

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N4AF
Cessna 421
S/N 0142

Airframe Log

04/07/2011
WO# 110329-2
Hobbs: 204.8

Removed CA-814A Autopilot Computer P/N 4000288-8504, S/N 2691 and FC-813A Autopilot Mode Controller P/N 4000256-8501, S/N 1111. Sent both units to vendor for repair. Received and reinstalled A/P Mode Controller (same P/N & S/N) and replacement A/P Computer P/N 4000288-8504, S/N 4444. Reassembled all affected areas and ops check good. Removed Collins VHF-251 P/N 622-2078-001, S/N 8929 and sent to vendor for possible repair. Installed replacement VHF-251 P/N 622-2078-001, S/N 27116. Reassembled all affected areas and ops check good.

Lloyd J. Timmons
Avionics 1st, Inc.
A&P 3394413

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

MAKE Cessna
MODEL 421
S/N 421-0142
REG. NO. N4AF
WORK ORDER
SHOP

DFW Aero Mechanix Inc.

Airframe Entries

Installed overhauled Egt Flow gauge P/N [illegible] s/n [illegible] and
Manifold Pressure gauge P/N [illegible] s/n [illegible]
Tightened the post light ground for post light above pressurization panel as
Installed a spray wave fairing screw P/N [illegible] on right aux tank
Lubed P/N waste gate
Installed repaired right exhaust system P/N [illegible] with new hardware and gaskets and exhaust gaskets on cylinder
2,3 & 5
Re-lamped upper and lower beacons with new bulbs P/N [illegible]
Removed and re-installed right aux fuel tank pump after repair P/N [illegible]

DATE: 6/13/2011 SIGNED [signature] Work Order: 5094-12-2010

Jose Amado A&P 3022444

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N4AF
Cessna 421
S/N 0142

Airframe Log

08/01/2011
WO# 110801-1
Tach: 204.8

Removed radar system, including: AVQ Radar Indicator P/N MI-592102-1, S/N 1362; AVQ-45/46 Radar RT P/N MI-592021, S/N 1697; and AVQ-45/46 Radar Antenna P/N MI-592077, S/N 1421. Reassembled all affected areas and ops check good. Repaired broken PTT wire. Reassembled all affected areas and ops check good.

[signature]
Lloyd J. Timmons
Avionics 1st, Inc.
A&P 3394413

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Twin City Airmotive (KFIT) Fitchburg, MA 01420 tel. 978-342-8700 twincity98@verizon.net

Date: 9/20/11	Hobbs:	Tach:	N 4AF	Airframe Repairs
AFTT:			A/C Serial #	421-0142

Performed the following repairs utilizing the manufacturer's maintenance manuals:

1. Installed Micro Vortex Generators per STC # SA00537SE. See Form 337 dated 09/20/2011 for further information.

----------END----------

This aircraft was inspected and/or repaired in accordance with the manufacturer's maintenance manuals. All systems interrupted have been tested and/or leak-checked as necessary. This aircraft is approved for return to service with respect to the work performed. Pertinent details are on file at this agency under work order no. 5483 and a copy has been provided to the owner/operator.

Ross Phipps A&P 2679548

BY: [signature]

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				07/01/2012 N4AF AFTT: 2604.8
				Installed new nose tire and tube. Installed 606C86-6 Goodyear tire. 6.00X6 tube. Installed new starter vibrator P/N: 10-356487-242. Had left hand gear door crack welded.

04/12/2012 N4AF S/N 0142 ACTT 2604.8 Hobbs 204.8

I have inspected this aircraft IAW Appendix D to Part 43 CFAR as pertains to scope and detail for an annual inspection referencing Cessna 421 Maintenance Manual and have provided a list of discrepancies to be corrected to the aircraft owner.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Dennis Tanker A&P3165442 IA

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

A One Aircraft Paint
126 Airport Drive Building – A Suite 10
Midway Regional Airport

July 24, 2012, 2012 Cessna 421 N4AF, S/N: 0142 Tach 0204.8

This aircraft was stripped down to metal I/A/C Cessna service manual and AC 43.13-1B. The aircraft was then inspected for defects with no major defects found. The flight controls were removed for painting and balancing and the aircraft was prepared for painting with all minor blemishes being repaired. The aircraft was primed and painted. The flight controls were primed and painted, balanced and reinstalled. After installation of the flight controls they were checked for freedom of movement and found to be satisfactory. This aircraft is returned to service as of the above date. See additional paperwork for warranty information.

Colors used:

Base – Matterhorn white – 570 535
Major – Charcoal Gray - 10492
Accent –Red Met– 10701
Third color – Antique Silver - 10491

David P. Wheeler A&P 3166281 IA

July 2012
Left and right engine air filters replaced with new filters

↑ 924-96-02

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				07/01/2012 N4AF AFTT: 2604.8
				Installed new nose tire and tube. Installed 606C86-6 Goodyear tire. 6.00X6 tube. Installed new starter vibrator P/N: 10-356487-242. Had left hand gear door crack welded.
				Jeff Powell, A&P 3013211 J Powell

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				A One Aircraft Paint 126 Airport Drive Building – A Suite 10 Midway Regional Airport
				July 24, 2012, 2012 Cessna 421 N4AF, S/N: 0142 Tach 0204.8 This aircraft was stripped down to metal I/A/C Cessna service manual and AC 43.13-1B. The aircraft was then inspected for defects with no major defects found. The flight controls were removed for painting and balancing and the aircraft was prepared for painting with all minor blemishes being repaired. The aircraft was primed and painted. The flight controls were primed and painted, balanced and reinstalled. After installation of the flight controls they were checked for freedom of movement and found to be satisfactory. This aircraft is returned to service as of the above date. See additional paperwork for warranty information. Colors used: Base – Matterhorn white – 5/0 535 Major – Charcoal Gray - 10492 Accent – Red Met – 10701 Third color – Antique Silver - 10491 David P. Wheeler A&P 3166281 IA
July 2012				Left and right engine air filters replaced with new filters

↑ 084-96-03

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

MAKE Cessna
MODEL 421
S/N 421-0142
REG NO N4AF
WORK ORDER
5718-11-2012

DFW Aero Mechanix Inc.
16321 Addison Rd Ste 150
Addison, Texas 75001
Phone 972-250-2403

DATE 11/27/2012
A/C TSN 0
HOBBS 0.2

Airframe Entries

Resealed & serviced nose gear shimmy dampener
Rewired L/H & R/H alternators in accordance with Cessna 421 wiring diagram # 5190085, Repaired L/H F2 ground wire by spicing in new section of 18 gauge wire, Installed correct field power fuses AGC 3 amp, Removed R/H alternator P/N ALV9510 S/N F112903 for repair, Checked condition of R/H alternator clutch no defects noted, Installed loaner alternator P/N ALV9510 S/N B080403 using existing clutch with new mount gasket P/N 653981, Adjusted main & standby voltage regulators to 28.2 volts in accordance with Cessna 421 service manual instructions, Ground run & operation check normal
Repaired broken wiring at L/H potentiometer for cowl flap gauge
Repaired leak on oxygen bottle regulator and serviced to 1850 psi.
Removed hobbs meter, reading 205.0, installed servicable hobbs meter new reading 0000.2

DATE: 11/27/2012 SIGNED: Juan Ovedo
Juan Ovedo, A&P 3031449IA

Work Order: 5718-11-2012
Printed by EBis 3 (datcomedia.com)

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

N4AF **S/N # 421-0142** **28/DEC/2012**

Hobbs Time: 0009.1

Installed aft body strakes in accordance with STC SA01935LA per installation drawing #G3-050504-001. Form FAA 377 completed 28/DEC/2012, updated weight and balance and provided copy to owner. This airframe has been inspected I/A/W F.A.R. 91.409 f(3) and is approved for return to service with respect to the maintenance performed.

Neil D. Wickliff

Neil D. Wickliff IA 484664369

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

MAKE Cessna
MODEL 421
S/N 421-0142
REG NO N4AF
WORK ORDER
5743-12-2012

DFW Aero Mechanix Inc.

16321 Addison Rd Ste 150
Addison, Texas 75001
Phone 972-250-2403

DATE 1/3/2013
A/C TSN 3917
HOBBS 12

Airframe Entries

Installed overhauled R/H Alternator P/N ALV 9510 S/N 11J000076
Installed new grease fitting on L/H main gear down lock actuator

N4AF
Cessna 421
S/N 0142

Airframe Log

11-8-2013
WO# 131002-1
Hobbs: 205.0

Removed pilot and co-pilot control yokes for refurbishment by Advance Paint Technologies. Removed all switches, wiring and hardware.
Removed Pilots clock. Stowed old wiring. Installed new Davtron M800-28V Clock S/N D32860. Wired clock to Avionics Buss.
Removed OAT Gauge and sent out for repair. Reinstalled Serviceable OAT Gauge P/N CM2628L1. Ops checks good.
Removed both VSI's from panel (pilot's P/N S1392-N1 S/N 86856 and Co-pilot's P/N CM2633 S/N AL0306A). Cut notch on panel to allow proper installation of VSI's. Installed P/N 7030 VSI S/N 330688 on Pilot's side and P/N 7030 S/N 330691 on Co-Pilots side.
Ordered serviceable KTR-900 Com P/N 064-1003-00 S/N 2736. Installed mount for unit in nose avionics bay. Reinstalled KTR-900 to existing wiring. Reassembled all affected areas and Ops check good.
Removed existing Nav Receiver and installed serviceable Collins 51R-8A Nav unit P/N 522-3467-013 S/N 1261 Ops checks good
Removed Failed Static Inverter Model PC-5A S/N 1245 and installed Serviceable Inverter Model PC-5A S/N 1414. Reassembled all affected areas. Ops checks good.

Lloyd L. Timmons
Avionics 1st, Inc.
A&P 3394413

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Cross Country Aviation

N4AF

Date: 09-03-2014

TTAF: 2658.0

Annual inspection completed IAW the aircraft service manual, FAR 43-13 rev d. Lubed aircraft. Repacked wheel bearings. Cleaned fuel screen. Checked all lights. Checked all flight controls. Checked stall warning. AD 00-01-16 exhaust system, para b, CW by inspection, due next at TTAF 2708.0. Para c, CW, due next at 9-2015. Para d, PCW due next at TTAF 3029.8. Para e, CW due next at 9-2015. Para f, PCW due next at TTAF 3075.0. Para g, PCW due next at TTAF 5029.8 or 8-2021. All other AD's checked thru bi-weekly 2014-22. All work performed IAW the aircraft service manual. Aircraft run leak and ops checked ok. I certify that this aircraft has been inspected IAW an annual inspection and was determined to be in airworthy condition. End.

Josh Hoffman

IA 3090168

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

MAKE Cessna
MODEL 421
S/N 421-0142
REG NO N4AF
WORK ORDER
5743-12-2012

DFW Aero Mechanix Inc.
16321 Addison Rd Ste 150
Addison, Texas 75001
Phone 972-250-2403

DATE 1/3/2013
A/C TSN 3017
HOBBS 12

Airframe Entries

Installed overhauled R/H Alternator P/N ALV 9510 S/N 11J000076
Installed new grease fitting on L/H main gear down lock actuator
Lubed & added washers to R/H engine FWD exhaust slip joint & OB AFT exhaust slip joint
Serviced tires with nitrogen 65 psi mains 35 psi nose

DATE: 1/3/2013 SIGNED:
Juan Oviedo A&P 3031449IA

Work Order: 5743-12-2012

Printed by EBis 3 (datcomedia.com)

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Cross Country Aviation N4AF

Date: 09-03-2014 TTAF: 2658.0

Annual inspection completed IAW the aircraft service manual, FAR 43-13 rev d. Lubed aircraft. Repacked wheel bearings. Cleaned fuel screen. Checked all lights. Checked all flight controls. Checked stall warning. AD 00-01-16 exhaust system, para b, CW by inspection, due next at TTAF 2708.0. Para c, CW, due next at 9-2015. Para d, PCW due next at TTAF 3029.8. Para e, CW due next at 9-2015. Para f, PCW due next at TTAF 3075.0. Para g, PCW due next at TTAF 5029.8 or 8-2021. All other AD's checked thru bi-weekly 2014-22. All work performed IAW the aircraft service manual. Aircraft run leak and ops checked ok. I certify that this aircraft has been inspected IAW an annual inspection and was determined to be in airworthy condition. End.

Josh Hoffman

IA 3090168

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
09/03/2014				N4AF S/N 0142 ACTT 2658.0

I have inspected this aircraft IAW Appendix D to Part 43 CFAR as pertains to scope and detail for an annual inspection referencing Cessna 421 Maintenance Manual and have provided a list of discrepancies to be corrected to the aircraft owner.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Dennis Tanker A&P3165442 IA

N4AF
Cessna 421
S/N 0142

Airframe Log

10-16-2014
WO# 140919-1
Hobbs:

Pulled Autopilot Pitch Servo Model SE-816A P/N 4000291-8503 S/N 2090 and Autopilot Computer Model CA-814A P/N 4000286-8504 S/N 4444 and sent to vendor for repair. Reinstalled both repaired serviceable units same P/N & S/N. Found Roll axis inop. Removed Autopilot Computer same P/N & S/N and Roll Servo P/N 4000290-8505 S/N 1633. Sent both units to vendor for repair. Reinstalled repaired serviceable Autopilot Computer and Roll Servo same P/N & S/N. Reassembled all affected areas. Ops checks good.

Lloyd J. Timmons
Avionics 1st, Inc.
A&P 3394413

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Cross Country Aviation

N4AF

Date: 09-15-2015

Hobbs: 97.8

Installed a serviceable intake assembly air scoop, PN 5117248-1.
Aircraft return to service. End.

Josh Hoffman

A & P 3090168

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

GREAT LAKES AVIATION & RADIO ~ 2GLR662B

A/C N4FA Dual ☐ Date 2-1-2016

ATC Transponder checked i/a/w 14CFR: 91.413 & 43F

Encoder ckd to 30,000 ft i/a/w 14CFR:91.411 & 43E(c)

Static system checked i/a/w14CFR 91-411 part 43 ☒

Work Order 311

.R662B

BLIND ENCODER TOP COPILOT

INSTRUMENT PANEL. BLANK HOLE

REPAIR STATION 2GLR662B

Altimeter Scale Error Correction Card

TEST PT(FT)	Indicator Reading at +26c
-1,000	+10
0	+15
500	+15
1,000	+15
1,500	+20
2,000	+30
3,000	+30
4,000	+35
6,000	+35
8,000	+35
10,000	+40
12,000	+60
14,000	+80
16,000	+95
18,000	+120
20,000	+120
22,000	+135
25,000	+150

TEST	Indicator Reading at +26c
30,000	+110
35,000	
40,000	
45,000	
50,000	
55,000	
60,000	
70,000	
80,000	

Altimeter Position: Pilot ☐ Copilot ☒

ALT. S/N 478232

DATE 2-1-2016

DOC# ECC128

TAS AVIATION, INC.
Twin Cessna Specialists

N4AF (Aircraft Logs)

Cessna 421 s/n 421-0142

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D.
Performed post operational checks per FAR43.15 (c)
Inspected and tested ELT as required by FAR 91.207(d). ELT Battery **Next due Dec 2023.**
Reinstalled O2 bottle #6084-20 in nose 3AA Oxygen bottle following Hydrostatic test per DOT 49 CFR, 3AA by Turboprop East (DOT C945) W.O.# HYD-1545, Due again in 5 years at Jan 2021.
Removed Optional equipment Alcor #21731 EGT gauge from upper center panel hole.
Installed JPI Instruments EDM-790 p/n 760000-6-F-L s/n 06917multi temperature unit with fuel flow in the open existing hole. Routed JPI provided harness assembly and connected power to main buss through an added Klixon 7277-5-2 circuit breaker per wiring diagram Page 19. Installed provided probes and connected to added fuel flow transducers .Installed per JP Instrument Installation Report #760 Rev B and guidance from AC43.13-1B dated September 8, 1998 Chapter 11 "Aircraft Electrical Systems" section 8 "Wiring Installation Inspection Requirements" pages 11-43 through 11-50. Install POH Supplement, and modified equipment list/W&B . This installation approved by **J.P. Instruments Supplemental Type Certificate #SA00729SE** (see 337 form this date for details)
Installed on left and right side J.P. Instrument fuel flow transducer # FXT-201 (29.36 K) in engine compartments for connection to above Installed EDM-790. Installed per J.P. Instruments instruction manual report #503 RevB. Changed aircraft equipment list/W&B. This installation approved by **J.P. Instruments Supplemental Type Certificate # SA00432SE.** (see 337 form this date for details)
Note: This installation is may not replace any existing instrument or indicator required by the aircraft type design or operating limits.
Removed existing post light on upper center instrument panel and installed PMA approved NULITES #LW30 to existing wiring and dimmers.

Removed previously installed supplement rotating beacon Grimes #40-0129-11 s/n 1185 from aircraft belly and installed on same mount Whelen Aviation Model #7141015 FAA TSO-C96a Class III anti-collison LED Beacon. Installation identical removed unit and utilized existing wiring, switch, and circuit protection which was of adequate ratings for this unit as defined in AC43.13-1B Chapter 11 Section 5. Changed equipment list/W&B as required. (see 337 form this date for details)

Installed correct mounting hardware per IPM on rudder trim tab attach. Removed rudder and repositioned lower support per **Cessna SB MEB00-4** Rudder Hinge Bearing Inspection/Replacement. Found lower bearing bracket installed upside down. Reinstalled in correct orientation per SB. Reinstalled rudder and rerigged rudder and rudder trim to specs. Found rudder trim indicator attach on panel disconnected, reattached and rerigged for proper operation.
Reset aileron trim , elevator trim , travel to specs. Rerigged flap cable tensions, Elevator cable, rudder cable tensions to specs.
Removed elevator trim tab actuator cleaned, inspected and measured components , replaced end bearing #0310298-1 and reassembled with new groove pins, lubed with Dow 33 per MM instructions (cold soak checked assembled actuator to –10F) . Reinstalled actuator and installed new trim horn attach screws #MS35206-256.

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				GREAT LAKES AVIATION & RADIO ~ 2GLR662B
				A/C N4FA Dual ☐ Date 2-1-2016
				ATC Transponder checked i/a/w 14CFR: 91.413 & 43F
				Encoder ckd to 30,000 ft i/a/w 14CFR:91.411 & 43E(c)
				Static system checked i/a/w14CFR 91-411 part 43 ☒
				Work Order 311
				By: [signature] 2GLR662B
				NOTE : Blind ENCODER TOP COPILOT INSTRUMENT PANEL. BLANK HOLE

TAS AVIATION, INC.
Twin Cessna Specialists

N4AF (Aircraft Logs)
Cessna 421 s/n 421-0142

Inspected aircraft as required by FAR91.409 (a) (1) per inspection checklist meeting requirements of FAR 43.15 (c)(2) and FAR 43 App. D.
Performed post operational checks per FAR43.15 (c)
Inspected and tested ELT as required by FAR 91.207(d). ELT Battery **Next due Dec 2023.**
Reinstalled O2 bottle #6084-20 in nose 3AA Oxygen bottle following Hydrostatic test per DOT 49 CFR, 3AA by Turboprop East (DOT C945) W.O.# HYD-1545, Due again in 5 years at Jan 2021.
Removed Optional equipment Alcor #21731 EGT gauge from upper center panel hole.
Installed JPI Instruments EDM-790 p/n 760000-6-F-L s/n 06917multi temperature unit with fuel flow in the open existing hole. Routed JPI provided harness assembly and connected power to main buss through an added Klixon 7277-5-2 circuit breaker per wiring diagram Page 19. Installed provided probes and connected to added fuel flow transducers .Installed per JP Instrument Installation Report #760 Rev B and guidance from AC43.13-1B dated September 8, 1998 Chapter 11 "Aircraft Electrical Systems" section 8 "Wiring Installation Inspection Requirements" pages 11-43 through 11-50. Install POH Supplement, and modified equipment list/W&B . This installation approved by **J.P. Instruments Supplemental Type Certificate #SA00729SE** (see 337 form this date for details)
Installed on left and right side J.P. Instrument fuel flow transducer # FXT-201 (29.36 K) in engine compartments for connection to above Installed EDM-790. Installed per J.P. Instruments instruction manual report #503 RevB. Changed aircraft equipment list/W&B. This installation approved by **J.P. Instruments Supplemental Type Certificate # SA00432SE**. (see 337 form this date for details)
Note: This installation is may not replace any existing instrument or indicator required by the aircraft type design or operating limits.
Removed existing post light on upper center instrument panel and installed PMA approved NULITES #LW30 to existing wiring and dimmers.

Removed previously installed supplement rotating beacon Grimes #40-0129-11 s/n 1185 from aircraft belly and installed on same mount Whelen Aviation Model #7141015 FAA TSO-C96a Class III anti-collison LED Beacon. Installation identical removed unit and utilized existing wiring, switch, and circuit protection which was of adequate ratings for this unit as defined in AC43.13-1B Chapter 11 Section 5. Changed equipment list/W&B as required. (see 337 form this date for details)

Installed correct mounting hardware per IPM on rudder trim tab attach. Removed rudder and repositioned lower support per **Cessna SB MEB00-4** Rudder Hinge Bearing Inspection/Replacement. Found lower bearing bracket installed upside down. Reinstalled in correct orientation per SB. Reinstalled rudder and rerigged rudder and rudder trim to specs. Found rudder trim indicator attach on panel disconnected, reattached and rerigged for proper operation.
Reset aileron trim , elevator trim , travel to specs. Rerigged flap cable tensions, Elevator cable, rudder cable tensions to specs.
Removed elevator trim tab actuator cleaned, inspected and measured components , replaced end bearing #0310298-1 and reassembled with new groove pins, lubed with Dow 33 per MM instructions (cold soak checked assembled actuator to –10F) . Reinstalled actuator and installed new trim horn attach screws #MS35206-256.

N4AF continued

Replaced left prop governor ball end. Attachment nuts.
Reinstalled cabin ceiling cable divider mount brackets.
Replaced vacuum relief valve filters as required.
Removed right wing pressurization inlet duct splitter and cleaned corrosion, painted, and reinstalled with new duct CM3211-10A6.5 Removed corroded heater combustion air blower bracket and repaired, cleaned, treated , primed and reinstalled. Installed left wing short

Replaced fuel cap periphery Orings as required. De-fueled right tip tank and replaced aux pump gasket and installed missing Orings on fittings. Removed previously installed internal tank flex hose used as a conduit that was leaking and replaced with solid aluminum tubing. Resealled various tank dorments and attach rivets.

Replaced nose gear forward fork bolt with new #5045211-2 bolt. CW Cessna CAP32-10-02 (400 series) by replacing left/right main landing gear lock link pivot bolts #NAS6204-26D (due again in 500 hr or 3 years) Replaced right side nose gear door upper rod end with new S1105-4. Installed new bolts in nose gear drag brace link. Installed missing fume proofing in main landing gear wheel wells. Replaced bolts in nose gear spline shaft flange bearing in nose. Replaced missing nose gear steering stop #5042009-1. Corrected improper orientation of left and right MLG outboard drive tube. Replaced heavily corroded left side outboard drive rod attach hardware with new bolts and attach nuts.
Removed right MLG strut and disassembled, cleaned, inspected and reassembled with new Orings, poly pak seal #A2749 Serviced strut.
Rerigged, lubricated and gear emergency operation of landing gear system per Cessna 421 Maintenance Manual.

AD90-02-13 Effective Date - 02/05/90 Main landing gear strut bearings.
AD signed off on 8/12/2009 as having installed new strut bearings (#5141109-1) as terminating action for this AD. During disassembly of strut for leak repair on right side found old style #5041108-1 bearing installed. Magnaflux inspection found unit cracked. Replaced unit with new #5141109-4 (Bronze) unit thus terminating any further action on right side.
NOTE: At owners direction NO disassembly or inspection was done on left side at this date.

CW AD2000-01-16 Effective Date Feb 15, 2000 (Supersedes AD75-23-08R5) Exhaust system inspection.
CW Para (b) exhaust visual inspection. Reset slip joint spring tensions and resaftied. Replaced left engine outboard exhaust slip joints with new Knisley K9910314-1 slip joint and new hardware kit RAM2039-1.
(Inspection due again in 50 hr. at Hobbs 169.0)
CW para (c) tailpipe off aircraft inspection.
Inspected Left /Right tailpipe found OK. **(Inspection due again in 12 months Jan 2017)**
CW para (e) Pressure test exhaust system. **(Inspection due again in 12 calendar months Jan 2017)**

CW AD 2004-25-16R1 eff. Date 6/20/2005 (Supersedes AD 2000-17-13 and 200-08-01) Kelley Aerospace Heater Fuel Regulator
By visual inspection/ leak check Due again in 100 hr. aircraft time or 12 months. (Hobbs 219.0 or Feb 2017)

CW AD72-14-08 R1 Effective Date 07/14/72 Flexible hose assemblies. On left/right engines. Inspection Due each 60 hr. next at Hobbs 179.0.

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N4AF continued

CW AD2004-21-05 eff. Date 11/19/2004 (Supersedes AD 96-20-07) Janero heater test.
Performed Pressure Decay and Air pressure switch test per Para (1). Units failed. Removed from aircraft and sent for OVH/repair.
Reinstalled unit A34D35 s/n 0472489-3 Overhaul and returned to service by Aircraft Heating (CRS#XX2R309L) w o. # 16617/2535.
Replaced heater vent fan "low" speed resistor with new HL55-08Z-1-OHM and verified low/hi ops of vent fan.
New P/N 94E42-3 switch installed no further inspection of switch required on switch per Para (3)
Current heater hobbs reads 101.0 (1st due in 500 hr. per para 2 at heater hobbs of 601.0)

CWAD2014-03-03 eff. April 7, 2014 Icing notification by installation of Placard and Supplemental Airplane Flight Manual (Appendix 1) as required by airworthiness Directive para (g) . No further action required.

CW AD72-02-01 eff. 1/18/72 propeller installation and operations.
Checked prop attach torque per Para A) Verified tachometer yellow arc per para B)
Verified installation of placard per para C) Verified AFM at Rev 10 per para D)
No further action required.

AD 72-11-05 eff. 6/2/72 Auxillary fuel cells. PCW by previous replacement of fuel cells. Repetitive inspections no longer applicable per para B) No further action required.

CW AD73-22-01 eff. 5/29/78 Fire in leading edge. Verified that wing previously modified as per ME73-5. AFM is at revision 10 and installed fire procedures check list in aircraft as required. No further action required.

AD76-08-02 eff. Amdt. 1/31/83 wingtip tank explosion. Verified that affected Grimes strobe light not installed and installed Whelen strobe head strobe Whelen A625 meets FAA/PMA explosion proof requirements as installed. See Whelen document #05131A.
No further action required.

AD92-16-18 eff. Amdt. 9/10/92 Seats, Found affected seats style not installed. No further action required.

AD97-01-13 Effective Date - 02/03/97 Fuel, oil, or hydraulic hose Cessna NA affected hoses not installed.

DATE 2/1/2016 HOBBS 119.0 AIRCRAFT TOTAL TIME 2724.0
Heater Time 101.0
"I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN *ANNUAL INSPECTION* AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION."

Anthony R. Saxton AP32537461A Anthony R Saxton

TAS AVIATION, INC.
Twin Cessna Specialists

N4AF (Aircraft Logs)
Cessna 421 s/n 421-0142

CW AD78-13-05 eff. Amdt. 7/05/1978 Improper seat installation Inspected seats for proper installation per ME78-17 and found OK
No further action required.

DATE 2/1/2016 HOBBS 119.0 AIRCRAFT TOTAL TIME 2724.0

Anthony R. Saxton AP32537461A

TAS AVIATION, INC.
Twin Cessna Specialists

N4AF (Aircraft Logs)
Cessna 421 s/n 421-0142

CW AD2005-20-05 eff. Amdt. 11/09/2005 Avionics switch/Breaker. Inspected switch and found installed unit not applicable date code units.
No further action required.

DATE 2/1/2016 HOBBS 119.0 AIRCRAFT TOTAL TIME 2724.0

Anthony R. Saxton AP32537461A

DATE
19__

)NS
)BER OF
NTRIES.)

FLIGHTSTAR AEROMOTIVE
16111 Addison Road, Suite 100, Addison, TX 75001
AIRFRAME LOGBOOK ENTRY
N4AF

Cessna 421B S/N 421-0142 Hobbs 132.7 AFTT: 04/06/2016
C/W MEB-27-02 Replacement of elevator pushrod hardware. I certify this aircraft has been inspected and/or repaired in accordance with current Federal Aviation Regulations and has been determined to be in airworthy condition with respect to work performed.

Joseph L. Brown
A&P2226812

FLIGHTSTAR AEROMOTIVE
16111 Addison Road, Suite 100, Addison, TX 75001
AIRFRAME LOGBOOK ENTRY
N4AF

Cessna 421 S/N 421-0142 Hobbs 154.0 AFTT: UNK 06/30/2016
Reseal right main strut using new seals P/N MS28775-015, MS28775-229, MS28775-330, MS28774-330, A2749, serviced as needed, Install new main gear tires and tubes Goodyear Flight Custom III 6.5-10-10PR left S/N 60092194,right 5320269 clean , inspect and repack main wheel bearings install new P/N 13830-20629 Race, 13889-20629 Bearing in right outboard position, tighten and secure left center torque link bolt, replace fuel cap O-rings 4 each of P/N MS29513-232,4 each of MS29513-010 and adjust as needed. I certify this aircraft has been inspected and/or repaired in accordance with current Federal Aviation Regulations and has been determined to be in airworthy condition with respect to work performed.

Joseph L. Brown
A&P2226812

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

FLIGHTSTAR AEROMOTIVE

16111 Addison Road, Suite 100, Addison, TX 75001

AIRFRAME LOGBOOK ENTRY

N4AF

Cessna 421 S/N 421-0124 Hobbs: 205.0 AFTT: 2810.0 09/01/2017

Annual inspection performed, AD's checked for compliance thru BW-2017-17, **C/W FAR 91.207** (d) Inspection and check of ELT P/N E-01 S/N 027230 **battery expires December 2023, C/W AD# 16-07-24** Elevator trim tab hardware inspection completed and found in compliance due again @ AFTT: 2910.0, **C/W AD# 04-25-16R1** Inspection of heater fuel regulator found in limits due again @ AFTT: 2910.0, **C/W AD# 84-26-02** Paper Induction Filters by installing new filters P/N 10-8421 due again @ AFTT: 3310.0 or on condition whichever comes first, **AD# 04-21-05** Janitrol heater pressure check and air switch inspection completed and overhauled at Heater Hobbs 101.0 on 2/1/2016 due 2/2018 or Hobbs 201, **C/W AD# 2000-01-16** on both engines par (b) Visual due each 50 hours or 30 days whichever later., Par (c) Remove and inspect tailpipe due each 12 months, Par (d) Inspection of outboard engine beams, firewall and Canted bulkhead due each 500 hours, Par (e) pressure check due each 12 months, Par (f) Not applicable multi segmented V-band clamps not installed., par (g) Removal and overhaul of exhaust components aft of risers due each 12 years or 2,500 hours.

Left Engine Par (b) due again @ AFTT 2860.0 or 30 days whichever occurs later, Par (c) due again 3/2018, Par (d) due @ AFTT 3029.8 Par (e) due again 3/2018, Par (f) Multi segmented clamps installed due again AFTT 3029.8, Par (g) Replaced Slip Joint and Flex joint @ AFTT 2529.8 due again @ AFTT 5029.8 or 8/2021, Installed new tailpipe 8/4/2017 @ AFTT: 2810.0

Right Engine, Par (b) due again @ AFTT 2860.0 or 30 days whichever occurs later, Par (c) due again 3/2018, Par (d) due @ AFTT 3029.8 Par (e) due again 3/2018 , Par (f) Multi segmented clamps installed due again AFTT 3029.8, Par (g) Replaced Slip Joint and Flex joint @ AFTT 2529.8 due again @ AFTT 5029.8 or 8/2021

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DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Install new P/N RAD9-14-5 Instrument air filter, Install new P/N RAB3-5-1 vacuum regulator filters, Install new P/N MS29513-232 and -010 fuel cap o-ring seals, Oxygen bottle hydrostatic check completed on 1/2016 bottle due again 1/2021,Oxygen system serviced to 1800 PSI, Install new nose wheel bearing P/N 13889-20629 and race P/N 138030-20629, Install new nose gear drag link bolts P/N AN5-14A & bearings P/N MS24461-5, Replace plastic "B" nut on right de-ice boots sequence valve ops check boot normal operation, Right prop spinner removed and sent to CRS#XKKR436L for repair under WO# 6163 re-installed and adjusted shims as needed, Replace missing placards as needed, Replace bulbs as needed in instrument post lights, Install new P/N MS24462-4 bearing in right elevator outboard position, Replace left and right main gear drag link hardware and bushings as follows, Upper bolts P/N NAS464-P7-29, Spacers in upper link P/N 0841202-1, Center bushing P/N NAS77-10-045, Bolts NAS464P-28, Lower bushings 5041003-3 and bolts P/N 5041011-1, Unlock spacers P/N 5041004-1, Nuts MS20365-720C & Spacers P/N 5061011-1, Landing gear rigging and tensions checked and adjusted as required, 5 retraction checks were performed with two emergency extensions normal operations found, Corrosion – X treatment applied to aircraft, Install new P/N 610-1086 left and right aft main tank closeout gasket, Remove corrosion from battery box and protect as needed, I certify this aircraft has been inspected and/or repaired in accordance with current Federal Aviation Regulations and has been determined to be in airworthy condition with respect to work performed.

A&P 2226812 IA

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

FLIGHTSTAR AEROMOTIVE

16111 Addison Road, Suite 100, Addison, TX 75001

AIRFRAME LOGBOOK ENTRY

N4AF

Cessna 421 S/N 421-0124 Hobbs: 205.0 AFTT: 2810.0 09/01/2017

Annual inspection performed, AD's checked for compliance thru BW-2017-17, **C/W FAR 91.207** (d) Inspection and check of ELT P/N E-01 S/N 027230 **battery expires December 2023, C/W AD# 16-07-24** Elevator trim tab hardware inspection completed and found in compliance due again @ AFTT: 2910.0, **C/W AD# 04-25-16R1** Inspection of heater fuel regulator found in limits due again @ AFTT: 2910.0, **C/W AD# 84-26-02** Paper Induction Filters by installing new filters P/N 10-8421 due again @ AFTT: 3310.0 or on condition whichever comes first, **AD# 04-21-05** Janitrol heater pressure check and air switch inspection completed and overhauled at Heater Hobbs 101.0 on 2/1/2016 due 2/2018 or Hobbs 201, **C/W AD# 2000-01-16** on both engines par (b) Visual due each 50 hours or 30 days whichever later., Par (c) Remove and inspect tailpipe due each 12 months, Par (d) Inspection of outboard engine beams, firewall and Canted bulkhead due each 500 hours, Par (e) pressure check due each 12 months, Par (f) Not applicable multi segmented V-band clamps not installed., par (g) Removal and overhaul of exhaust components aft of risers due each 12 years or 2,500 hours.

Left Engine Par (b) due again @ AFTT 2860.0 or 30 days whichever occurs later, Par (c) due again 3/2018, Par (d) due @ AFTT 3029.8 Par (e) due again 3/2018, Par (f) Multi segmented clamps installed due again AFTT 3029.8, Par (g) Replaced Slip Joint and Flex joint @ AFTT 2529.8 due again @ AFTT 5029.8 or 8/2021, Installed new tailpipe 8/4/2017 @ AFTT: 2810.0

Right Engine, Par (b) due again @ AFTT 2860.0 or 30 days whichever occurs later, Par (c) due again 3/2018, Par (d) due @ AFTT 3029.8 Par (e) due again 3/2018 , Par (f) Multi segmented clamps installed due again AFTT 3029.8, Par (g) Replaced Slip Joint and Flex joint @ AFTT 2529.8 due again @ AFTT 5029.8 or 8/2021

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DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Install new P/N RAD9-14-5 Instrument air filter, Install new P/N RAB3-5-1 vacuum regulator filters, Install new P/N MS29513-232 and -010 fuel cap o-ring seals, Oxygen bottle hydrostatic check completed on 1/2016 bottle due again 1/2021,Oxygen system serviced to 1800 PSI, Install new nose wheel bearing P/N 13889-20629 and race P/N 138030-20629, Install new nose gear drag link bolts P/N AN5-14A & bearings P/N MS24461-5, Replace plastic "B" nut on right de-ice boots sequence valve ops check boot normal operation, Right prop spinner removed and sent to CRS#XKKR436L for repair under WO# 6163 re-installed and adjusted shims as needed, Replace missing placards as needed, Replace bulbs as needed in instrument post lights, Install new P/N MS24462-4 bearing in right elevator outboard position, Replace left and right main gear drag link hardware and bushings as follows, Upper bolts P/N NAS464-P7-29, Spacers in upper link P/N 0841202-1, Center bushing P/N NAS77-10-045, Bolts NAS464P-28, Lower bushings 5041003-3 and bolts P/N 5041011-1, Unlock spacers P/N 5041004-1, Nuts MS20365-720C & Spacers P/N 5061011-1, Landing gear rigging and tensions checked and adjusted as required, 5 retraction checks were performed with two emergency extensions normal operations found, Corrosion – X treatment applied to aircraft, Install new P/N 610-1086 left and right aft main tank closeout gket, Remove corrosion from battery box and protect as needed, I certify this aircraft has been inspected and/or repaired in accordance with current Federal Aviation Regulations and has been determined to be in airworthy condition with respect to work performed.

A&P 2226812 IA

Install new P/N RAD9-14-5 Instrument air filter, Install new P/N RAB3-5-1 vacuum regulator filters, Install new P/N MS29513-232 and -010 fuel cap o-ring seals, Oxygen bottle hydrostatic check completed on 1/2016 bottle due again 1/2021,Oxygen system serviced to 1800 PSI, Install new P/N P46P2L LED Landing lights, Install new P/N 9910007-4 center door seal and main seal P/N 9910007-3, Reseal rivets around right main fuel tank drain, Reseal left and right parking brake valves using P/N MS28775-010 O-Ring & MS28775-112 O-Ring, Install new left rudder pedal spring P/N 0861711-1 pilots side, Install new ships battery P/N G-244, S/N G03027240, Install new bushings and bolts in shimmy damper attach points P/N AN173-13A Bolt, AN173-7A Bolt, NAS75-3-028 Bushing, Install new bearings left aileron attach points P/N B4 Bearing, Replace missing placards as needed, replace bulbs as needed in instrument post lights, Landing gear rigging and tensions checked and adjusted as required, 5 retraction checks were performed with two emergency extensions normal operations found, Right prop governor P/N 210595 S/N 1702390D2 was removed for overhaul at CRS# QYIR334Y under WO# 044896, Remove corrosion from battery box and protect as needed, I certify this aircraft has been inspected and/or repaired in accordance with current Federal Aviation Regulations and has been determined to be in airworthy condition with respect to work performed.

8/1/16
A+P 2226812

ALTERATIONS
ICATE NUMBER OF
SPECIFIC ENTRIES.)

N4AF
Cessna 421
S/N 0142

Airframe Log

8-8-2016
WO# 160808-1
Hobbs: 158.5

Troubleshot to failed Inverter. Removed Failed Inverter P/N PC15A S/N 1414 and installed exchanged serviceable Inverter same P/N, S/N 1913. Reassembled all affected areas. Ops checks good.
Troubleshot to Glideslope Antenna, Splitter and Associated Coax. Removed and replaced Glideslope Antenna with new Antenna Model CI-193 S/N 444246 and replaced in line "T" Connector with proper Glideslope Splitter Model CI-503 S/N 520699. also replaced coax from splitter to Glideslope Antenna. Reassembled all affected areas. Ops checks good with Test set.
Nav Light intermittent --- troubleshot to loose ground connection. Secured connection. Ops checks good.

Dennis P. Sorber
Avionics 1st, Inc.
CRS # 8A1R718B

DATE
19__

N4AF Cessna 421 S/N 421-0142 Hobbs: 158.5

I certify that this/these Transponder/s as installed in this Aircraft has/have been tested as required by FAR 91.413 in accordance with FAR 43 Appendix F on this date 8-8-16.

#1 Transponder Model Wilcox P/N 1014A S/N 2736

#2 Transponder Model — P/N — S/N —

Pertinent details of the test are on file at this Repair Station under Work Order # 160808-1

Dated 8-8-16 Signed

Avionics 1st, Inc. **Phone # 214-337-7000 Fax # 214-337-7001 CRS # 8A1R718B**

N# N4AF Aircraft Cessna 421 S/N 421-0142 Tach / Hobbs 158.5

I certify that the Altimeter and Static systems test as required by FAR 91.411 have been performed in accordance with FAR 43 Appendix E. The Altimeter/s was/were tested to 35,K feet on 8-8-16.

#1 Altimeter P/N 5934PAD-3 S/N 478750

#2 Altimeter P/N 5934PAD-3 S/N 478732

Pertinent details of the test are on file at this Repair Station under Work Order # 160808-1

Dated 8-8-16 Signed

Avionics 1st, Inc. **Phone # 214-337-7000 Fax # 214-337-7001 CRS # 8A1R718B**

DATE	RECORDING TACH	TODAYS	TOTAL TIME IN	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF

DFW Instrument, LLC
16445 ADDISON ROAD
2nd FLOOR HANGAR2
ADDISON, TX 75001

TEL: # 214-217-7600
FAX: # 214-217-8307
FAA CRS #DZMR112L
EASA 145.6555

MAINTENANCE RECORD

CUSTOMER: FLIGHTSTAR AEROMOTIVE **A/C S/N:** 421-0142

A/C REG: N4AF **A/C MAKE:** CESSNA **MODEL:** 421

INSTALLED CUSTOMER PROVIDED ALTIMETERS HOBBS: 0262
PILOT'S - P/N 5934PAD-3, S/N 478732
INSTALLED CUSTOMER PROVIDED ALTIMETERS
COPILOT'S - P/N 5934PAD-3, S/N 478734

THE TESTS AND INSPECTIONS REQUIRED BY 14 CFR 91.411 HAVE BEEN PERFORMED AND THE EQUIPMENT LISTED BELOW HAS BEEN FOUND TO MEET THE REQUIREMENTS OF 14 CFR 43, APP E.

INSTALLED FOLLOWING ALTIMETERS REPAIRED AND CERTIFIED BY AIR DALLAS CRS# VE1R5555K, WO#'S 92832 & 92834.
PILOT ALT: P/N 5934PAD-3, S/N 47870 CERT. TO 35K FT.
CO-PILOT ALT: P/N 5934PAD-3, S/N 478732 CERT. TO 35K FT.

THE TESTS AND INSPECTIONS REQUIRED BY 14 CFR 91.413 HAVE BEEN PERFORMED AND THE EQUIPMENT LISTED BELOW HAS BEEN FOUND TO MEET THE REQUIREMENTS OF 14 CFR 43, APP F.

TRANSPONDER: P/N 1014A S/N 2736

THE AIRCRAFT IS APPROVED FOR RETURN TO SERVICE FOR THE WORK PERFORMED ABOVE.

INSPECTOR SIGNATURE: _____ **DATE:** 03/28/19 **W/O:** DL1507

FAA CRS #DZMR112L

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

FLIGHTSTAR AEROMOTIVE
16111 Addison Road, Suite 100, Addison, TX 75001
AIRFRAME LOGBOOK ENTRY

N4AF

Cessna 421 S/N 421-0124 Hobbs: 262.8 AFTT: 2867.8 04/01/2019

Annual inspection performed, AD's checked for compliance thru BW-2019-06, **C/W FAR 91.207** (d) Inspection and check of ELT P/N E-01 S/N 027230 **battery expires December 2023, C/W AD# 16-07-24** Elevator trim tab hardware inspection completed and found in compliance due again @ AFTT: 2967.8, **C/W AD# 04-25-16R1** Inspection of heater fuel regulator found in limits due again @ AFTT: 2967.8, **AD# 04-21-05** Janitrol heater pressure check and air switch inspection completed on heater Model B-3040 P/N A34D35 S/N 0472489-3 and is due again 4/2021 or Heater Hobbs 210.8 Hobbs now 110.8, heater was overhauled at Heater Hobbs 101.0 on 2/1/2016, **C/W AD# 84-26-02** Paper Induction Filters by inspection of engine air inlet filters, due replacement @ AFTT: 3310.0 or on condition whichever comes first, **C/W AD# 2000-01-16** on both engines par (b) Visual due each 50 hours or 30 days whichever later., Par (c) Remove and inspect tailpipe due each 12 months, Par (d) Inspection of outboard engine beams, firewall and Canted bulkhead due each 500 hours, Par (e) pressure check due each 12 months, Par (f) Not applicable multi segmented V-band clamps not installed., par (g) Removal and overhaul of exhaust components aft of risers due each 12 years or 2,500 hours.

Left Engine Par (b) due again @ AFTT 2917.8 or 30 days whichever occurs later, Par (c) due again 4/2020, Par (d) due @ AFTT 3029.8 Par (e) due again 4/2020, Par (f) Multi segmented clamps installed due again AFTT 3029.8, Par (g) Replaced Slip Joint and Flex joint @ AFTT 2529.8 due again @ AFTT 5029.8 or 8/2021, Installed new tailpipe 8/4/2017 @ AFTT: 2810.0

Right Engine, Par (b) due again @ AFTT 2917.8 or 30 days whichever occurs later, Par (c) due again 4/2020, Par (d) due @ AFTT 3029.8 Par (e) due again 4/2020 , Par (f) Multi segmented clamps installed due again AFTT 3029.8, Par (g) Replaced Slip Joint and Flex joint @ AFTT 2529.8 due again @ AFTT 5029.8 or 8/2021

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DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

DFW Instrument, LLC
16445 ADDISON ROAD
2nd FLOOR HANGAR2
ADDISON, TX 75001

TEL: # 214-217-7600
FAX: # 214-217-8307
FAA CRS #DZMR112L
EASA 145.6555

MAINTENANCE RECORD

CUSTOMER: FLIGHTSTAR AEROMOTIVE **A/C S/N:** 421-0142 **HOURS:**

A/C REG: N4AF **A/C MAKE:** CESSNA **MODEL:** 421 **CYCLES:**

UPDATED NAV DATABASE AS NEEDED. OPS CHECK GOOD

REMOVED P/N 522-3073-00 S/N 223 FOR TROUBLESHOOTING.
FOUND COMPASS FLAG ASSEMBLY SHORTING OUT.
REQUIRES REPAIR OR REPLACEMENT.
INSTALLED REPAIRED P/N 522-3073-00 S/N 223.
REFERENCE DFW INTERNAL WORK ORDER NO. DL1512-1 AND 8130-3 DATED 10/APR/2019.
OPS CHECK GOOD.

AIRCRAFT APPROVED FOR RETURN TO SERVICE FOR THE ABOVE WORK PERFORMED.

INSPECTOR SIGNATURE: _____ **DATE:** 04/10/2019 **W/O:** DL1512

FAA CRS #DZMR112L

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

DFW Instrument, LLC
16445 ADDISON ROAD
2nd FLOOR HANGAR2
ADDISON, TX 75001

TEL: # 214-217-7600
FAX: # 214-217-8307
FAA CRS #DZMR112L
EASA 145.6555

MAINTENANCE RECORD

CUSTOMER: FLIGHTSTAR AEROMOTIVE **A/C S/N:** 421-0142 **HOURS:**

A/C REG: N4AF **A/C MAKE:** CESSNA **MODEL:** 421 **CYCLES:**

VISUALLY INSPECTED HSI FOR ANY DAMAGE. SENT UNIT TO LAB AND UNIT TESTED GOOD.

CHECKED AND RANG OUT WIRING, FOUND A MIS-CRIMP AND RECEDED PIN ON J2 PIN 18.

RANG OUT WIRING FROM HSI TO DG AND TO SIGNAL AMPLIFIER ALL WIRING RANG GOOD.

CHECKED FOR CORRECT VOLTAGE AT HSI, DG, AND SIGNAL AMP, GOT ALL CORRECT

VOLTAGE READINGS. REMOVED SIGNAL AMPLIFIER FOR A VISUAL INSPECTION AND FOUND

CORRODED CONTACTS. CLEANED CONTACTS REINSTALLED

ALL COMPONENTS AND OPS CHECKED HSI. HSI OPS CHECK GOOD.

AIRCRAFT APPROVED FOR RETURN TO SERVICE FOR THE ABOVE WORK PERFORMED.

INSPECTOR SIGNATURE: _____ **DATE:** 04/11/2019 **W/O:** DL1515

FAA CRS #DZMR112L

Removed left and right Prestolite ALV9510 alternators.
Installed new FAA/PMA Hartzell ALV9610 alternators:
Left: s/n H-T091444 with OVH with OVH drive coupling #646655 s/n QAA048188 by Quality Aircraft Acc. (QYIR334Y) w.o. # 048188
Right: s/n H-T091455 with OVH with OVH drive coupling #646655 s/n QAA048984 by Quality Aircraft Acc. (QYIR334Y) w.o. # 048984
Installed Alternators front mount gear drive Coupling with new 630691 thrust washers and provided attach nuts meeting Hartzell engine technologies Service Bulletin #081 (attach nuts etched "H"). Attached per Continental M-O Procedures manual 10-4.1 through 10-4.1.5 (torque to 300-450 inch lbs.) and Hartzell Service Information letter A-140.
Removed left and right Starters #MHJ4003.
Installed Hartzell engine technologies new FAA/PMA starters #PM2407 Left/ s/n H-T091865 Right s/n H-T091864.
Removed Main and standby Voltage regulators Prestolite VSF7403S, and overvoltage controls , Elecromech EM230.
Installed (2) main/ standby Zeftronics Model R25VON combined VR/OVC in same locations (under pilots seat pedestal) Units wired per Zeftronic wiring/installation diagram #ZOIPCF Rev. A. Installation is Approved for this aircraft per Zeftronics AML # SA8705SW and Yovya Group Inc. dba Zeftronics Supplemental Type Certificate # SA8705SW. (see 337 form this date)
Replaced left and right MLG and nose gear drive rod pressurization seal boots with new #9910011-1 boots.
Sealed various cabin pass through areas with CS3204 sealant. Replaced aft pressure bulkhead cable seals with new S11L131C seals. Replaced (1) forward heater duct. Replaced connector duct hoses from left and right dump valves to fuselage.
Disassembled right side tip tank and replaced in-tank nut plates with correct NAS1473A3 seal nut-plates. Sealed several lower tank rivets and repaired lower aft tank pin hole with rivet and resealed. Replaced aux fuel pump mounting gasket and aft tank access plate gaset with new 500-001-10OS washers.
Installed new FAA/PMA quick drain valve with new SafAir F75 drain.

DATE 10/29/2019 HOBBS 285.3 AIRCRAFT TOTAL TIME 2605.0
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.

TAS AVIATION, INC. Twin Cessna Specialists WWW.TAS-AVIATION.COM

Anthony R. Saxton AP3253746IA

N4AF (Aircraft Logs)
Cessna 421 s/n 421-0142

Replaced section of copilots side static feed line behind heater duct with new Poly flo tubing #44PN and connectors. Repaired various static leaks at pilot side airspeed indicator and at inline static connection behind panel. Repaired pitot leak at pitot mast and at pressure bulkhead connector.
Found blind encoder loose behind instrument panel. Reinstalled unit in existing rack and secured.
Checked static system for leakage per CFR43 Appendix E (a) (2).

DATE 11/6/2019 HOBBS 286.1 AIRCRAFT TOTAL TIME 2605.8
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.

TAS AVIATION, INC. Twin Cessna Specialists WWW.TAS-AVIATION.COM

Anthony R. Saxton AP3253746IA

wo: M20-0014

Airframe page 1 of 2

Force Aviation · 5025 Voyager Dr Suite A, LB 58 · Dallas, TX 75237 · 2145581238

N4AF **CESSNA, 421, S/N: 421-0142** **February 25, 2020**
Tach: 324.8

1. Removed lower heat exchanger scoop panels and wing root panels on both wings, hooked up pressurization cart and leak checked pressurization. Found wing roots leaking where control cable passes to go to engine from cockpit on both wings and pilot storm window seal detached . Sealed both wing roots with PRC P/N 3204 B1/2 (x2) and applied clear RTV to pilot side storm window to reattach. Rechecked pressurization and achieved 3 1/2 PSI from ground with pressurization cart. Closed all air frame panels. Leak check good. Work done in accordance with current Cessna 421 maintenance manual section 13. Chase R.
2. Removed top cowling for #1 engine and washed the engine compartment completely. Washed both main landing gears as well. Work completed in accordance with Section 2 of the Cessna 421 Service manual. -Jake Leissner.
3. Inspected and found oxygen bottle valve properly opening,closing. Serviced oxygen bottle with 1800 psi of oxygen in accordance with Cessna 421 Pilots Operating Handbook. - Steven Uribe.
4. Install grease zert covers on landing gear grease inserts P/N: GC-5 (15x). Work completed in accordance with Section 4 of the Cessna Service Manual. -Jake Leissner
5. **COPILOT HSI SHOWS "HDG FLAG"** – Removed CoPilot HSI P/N 522-2638-001 S/N 2709 and sent for repair. Repaired by Air Dallas Instruments CRS# VE1R555K W/O# 97619 19 Nov 2020. Installed Repaired CoPilot HSI P/N 522-2638-001 S/N 2709 IAW 331A-8D manual. -Brandon Baccus
6. **WEAK GLIDESLOPE RECEPTION** – Removed glide scope antenna P/N: CI193 S/N: 444246. Installed new glideslope antenna P/N: CI193 S/N: 1542. Installed nose cone and tested system. Glideslope functioning properly at this time. Work performed in accordance with AC 43.13-2B Chapter 3 Section 309. -Lakota Finklea 11/19/2020.
7. **Co-Pilot Headphone Jack Requires Pressure on Jack to Operate** – Soldered in ground wire for Co-pilot headphone jack IAW AC43.13 1B Section 14 11/15/20 Eric Davenport 3845900A&P.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: M20-0431.

Joe Kral A&P 4003458

FORCE AVIATION

2/25/20

Force Aviation · 5025 Voyager Dr Suite A, LB 58 · Dallas, TX 75237 · 2145581238

5. Removed post lights and replaced 3 post light caps and new bulbs P/N 327. Operation checks good. Chase R.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: M20-0014.

Chase Riordan A&P 4002980

wo: A20-0091

Airframe page 1 of 1

FORCE AVIATION

Force Aviation · 5676 Apollo Dr · Dallas, TX 75237-4744 · 214-337-7000

N4AF CESSNA, 421, S/N: 421-0142 February 25, 2020

Hobbs_: 324.8

1. Removed interior, head liner, nose baggage compartment, and radome. Removed Wilcox 1014A Transponder P/N 097768-0101, S/N 1913; CI 101 Spike Antenna P/N CI 101, S/N N/A; and GPS Antenna P/N CI 405-5, S/N 99960832. Installed GA-35 WAAS/GPS Antenna P/N 013-00235-00, S/N 166579; Transponder Antenna P/N CI 105, S/N 95499; Lynx NGT9000R ADS-B In/Out Transponder P/N 9029000-40000, S/N LXE01220; CP-2500 Control Head P/N 050-828-0200, S/N A01112-B; and PIM-9000 Interface Module P/N 9230-17005-01, S/N 00001426. Installation performed in accordance with STC# SA02444AK, with reference to Lynx NGT-9000 & CP-2500 Installation Manual P/N L376AK-IM1, Rev. 3, dated 06 January 2017. Reassembled all affected areas and ops check good.tested transponder in accordance with WO# A20-0091CRS. test good. With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: A20-0091.

Chad Shaver A&P IA 2857120

N# N4AF Aircraft Cessna 421 S/N 421-0142 Hobbs: 324.8

I certify that this/these Transponder/s as installed in this Aircraft has/have been tested as required by FAR 91.413 in accordance with FAR 43 Appendix F on this date 02/25/2020

#1 Transponder Model NGT-9000 P/N 902900-40000 S/N LXE01220

Pertinent details of the test are on file at this Repair Station under Work Order # A20-0092CRS

Dated 02/25/2020 Signed

Avionics 1st, Inc. **Phone # 214-337-7000 Fax # 214-337-7001 CRS # 8A1R718B**

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DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

wo: M20-0102

Airframe page 1 of 1

FORCE AVIATION

Force Aviation · 5025 Voyager Dr Suite A, LB 58 · Dallas, TX 75237 · 2145581238

N4AF CESSNA, 421, S/N: 421-0142 May 12, 2020

1. Troubleshot and found 02 bottle regulator leaking, removed bottle and regulator P/N 800294-02 S/N: 40981DD/227 to be sent for overhaul. Chase R. Reinstalled O/H O2 bottle P/N: 800294-02 and S/N: 40981DD/227. Serviced bottle and no leaks noted. Work completed in accordance with Cessna 421 maint manual section13.-W. Koonce.
2. Troubleshot and found 4 post lights INOP, Adjusted bulb housing, removed corrosion and replaced bulbs with new bulbs P/N 327. operation checks good. Chase R. Installed (4) GE327 - Lamp.
3. Serviced main strut height with nitrogen per customer request. Chase R.
4. Replaced right engine #1 cylinder EGT probe with new JPI probe P/N M-111 in accordance with current Cessna 421 service manual section 61. Operational checks good. Chase R.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: M20-0102.

William Koonce A&P 3014392

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

wo: M20-0431

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

N4AF **CESSNA, 421, S/N: 421-0142** **November 24, 2020**

Hobbs: 349.8

1. **R/H MLG STRUT LEAKING; NEEDS RESEAL** – Resealed R/H strut with new O-rings P/Ns M83461/1-330, MS28775-222, MS28775-229 and MS28775-015 as required and serviced strut IAW Cessna 421 AMM section 4, Pg 4-13 and fig 4-4 and Section 2, pg 2-34. John Szemott A&P 4264091 11/13/2020
2. **WASH DOWN LANDING GEAR AND BRAKES** – Cleaned MLG and doors at customer request then lubricated MLG IAW Cessna 421 AMM 2-55 11/15/20 Eric Davenport 3845900A&P.
3. **NO.1 ENG CYL 6 EGT PROBE SHOWING "BAD PROBE"** – Inspected and installed splices to EGT probe wires IAW AC43.13-1B Chapter 11 Section 8 Paragraph 11-97 and 11-98. 13NOV2020 Travis Jantz 3624342.
4. **TAIL LIGHT LENS COVER CRACKED AND OPAQUE** – Removed old lamp assembly P/N: 01-0770024-03 with broken lamps from tail cone. Installed new lamp assembly P/N: 02-0350034-00 with new lamp P/N: 34-0428070-64, new lens P/N: 38-0230002-00 and gasket P/N: 38-0230002-00. Installed tail cone assembly and performed functionality test. System working properly at this time.

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

wo: M20-0431

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

Work performed in accordance with Whelen Installation Manual STC SA800EA. -Lakota Finklea 11/19/2020.

5. **COPILOT HSI SHOWS "HDG FLAG"** – Removed CoPilot HSI P/N 522-2638-001 S/N 2709 and sent for repair. Repaired by Air Dallas Instruments CRS# VE1R555K W/O# 97619 19 Nov 2020. Installed Repaired CoPilot HSI P/N 522-2638-001 S/N 2709 IAW 331A-8D manual. -Brandon Baccus
6. **WEAK GLIDESLOPE RECEPTION** – Removed glide scope antenna P/N: CI193 S/N: 444246. Installed new glideslope antenna P/N: CI193 S/N: 1542. Installed nose cone and tested system. Glideslope functioning properly at this time. Work performed in accordance with AC 43.13-2B Chapter 3 Section 309. -Lakota Finklea 11/19/2020.
7. **Co-Pilot Headphone Jack Requires Pressure on Jack to Operate** – Soldered in ground wire for Co-pilot headphone jack IAW AC43.13 1B Section 14 11/15/20 Eric Davenport 3845900A&P.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: M20-0431.

Joe Kral A&P 4003458

wo: M20-0449

Airframe · page 1 of 2

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

N4AF
Hobbs: 356.2

CESSNA, 421, S/N: 421-0142

December 3, 2020

1. **JACK AIRCRAFT AND SERVICE MLG STRUTS TO PROPER PRESSURE** – Removed and replaced left and right main shock strut valve packings with new P/N MS28775-015. Serviced nose, left and right landing gear struts with nitrogen in accordance with Cessna 421 Maintenance Manual Section 2-34. -Steven Uribe A&P#3937854 11/30/2020
2. **POST LIGHT BEHIND COPILOT YOKE MISSING TOP COVER** – Removed and replaced broken cabin air control post light bulb and hood assembly with new bulb P/N GE-327 and new hood assembly P/N 21-0230-9. Work performed in accordance with Cessna 421 Maintenance Manual Section 12-10A. - Steven Uribe A&P#3937854 12/2/2020
3. **L/H ENG #6 CYLINDER EGT INDICATION** – Removed and replaced left engine #6 EGT probe with new P/N M-111. Left engine #6 EGT operation check good. Work performed in accordance with Cessna 421 Maintenance Manual Section 9-17.- Steven Uribe A&P#3937854 11/30/2020
4. **Post Light Above Oxygen Gauge Missing Top Cover.** – Removed and replaced broken oxygen supply gauge post light bulb and hood assembly with new bulb P/N GE-327 and new hood assembly

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ENTRIES.)

Airframe · page 2 of 2

wo: M20-0449

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

P/N 21-0230-9. Work performed in accordance with Cessna 421 Maintenance Manual Section 12-
Steven Uribe A&P#3937854 12/2/2020
to service. Details of work per-

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

wo: AS20-0285

Airframe · page 1 of 1

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

N4AF
Hobbs: 411.9

CESSNA, 421, S/N: 421-0142

October 01, 2021

1. **Change static inverter** – Removed PC-15A inverter S/N 1913. Installed PC15A inverter S/N2308. Tested system Per Cessna 421 maintenance manual P/N D817-13: Revision - 15, Revision Date - Mar 3, 2003. Tested good. Kevin Sorber 10/1/21.
2. **L/H Engine Oil Access Door Broken Rivet** – Evaluated Damage. Damage is to the engine cowling skin. Repair requires a patch to be installed Per Cessna 421 AMM 16-6A. Unable to complete this repair in the time allotted. Stop-Drilled Crack as a temporary measure until proper repair can be completed Eric Davenport 3845900A&P 10/1/21.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: AS20-0285.

Robert McCarthy A&P/IA 3772660

wo: M21-0229

Airframe · page 1 of 2

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

N4AF **CESSNA, 421, S/N: 421-0142** **November 05, 2021**

Hobbs: 426.1

1. Removed flap indicator post console light. Inspected and rerouted wiring to post. Reinstalled post light IAW Cessna 421 AMM Section 14. Operational check good.
2. Found right hand cabin pressure Cable jammed in the "locked" position. Removed knob and freed cable. Reinstalled. ops check good.
3. Removed both faulty aux pumps LH P/N: 1B5-8 S/N: IIK-87 and RH P/N: 1B5-8 S/N: 2AF-2. Installed two new aux fuel pumps LH P/N: 1B5-8 S/N: 10E-45 and RH P/N: 1B5-8 S/N: 6P- 362. Performed operation check, All work was performed in reference to Cessna 421 AMM Section 11-6 thru 11-8. Installed P/N 1B5-8 - , S/N: 10E-45, Installed P/N 1B5-8 - Pump-Fuel, S/N: 6P3 62, Installed (2) P/N MS29512-06 - Packing, Removed P/N 1B5-8 - Pump-Fuel , S/N: IIK-87, Removed P/N 1B5-8 - Pump-Fuel , S/N: 2AF-2.
4. De-fueled and refueled aircraft. All work was performed in reference to Cessna 421 AMM Section 2-47. 11/5/21. Installed (2) P/N MS29512-03 - MS29512-03.
5. Performed structural repairs on left hand engine cowling All work was IAW Cessna Service Manual Section 16. Completed fabrication and installation of left engine cowling doubler. IAW AC 43.13-1B. Chapter 4.

wo: M21-0229

Airframe · page 2 of 2

FORCE AVIATION

Force Aviation · 5555 Apollo Drive · Dallas, Texas 75237 · 2143377000

6. Adjusted pressure in R/H MLG strut to match L/H all work done in reference to Cessna 421 MM.
7. Serviced aircraft tires with nitrogen IAW Cessna 421 AMM Section 12-4.
8. Tightened L/H alternate air control cables as needed, all cables working properly at this time. All work was performed in reference with Cessna 421 AMM Section 9-27.
8. Troubleshot #2 tachometer generator. All work was performed in reference to Cessna 421 AMM Section 7-80. Installed P/N 22A667 - Tach Gen , Installed P/N MS9134-01

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Force Aviation under work order: M21-0229.

Robert McCarthy A&P/IA 3772660 Robert McCarthy

DATE 19___ | RECORDING TACH | TODAYS | TOTAL TIME IN | DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF

OF IES.)

AUTOPILOTS CENTRAL INC

Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Date: 5/19/2022; Aircraft: N4AF
N4AF. Cessna 421-0142. HM 448.0 hrs. MA22-06694 dated 5/19/2022.

A. Connected pressurization cart to aircraft and pressurized on April 21, 2022. Found the following leak areas.
1. Large leak at belly panel just aft of the forward pressure bulkhead by the nose wheel tunnel.
2. Moderate leak at the belly ram air scoop.
3. Moderate leak at the ram dump valve in front of the heater.
4. Moderate leak at the rudder cables in the aft pressure bulkhead.
5. Minor leaks in the wing left and right wing root area at the wire bundles.
6. Moderate leak at the emergency exit door at the top area.

B. Made the following repair to the pressurization system.
1. Removed old sealant and deteriorated seal on the belly panel just aft of the front pressure bulkhead. Installed new seal and reinstalled panel with new hardware.
2. Adjusted ram dump valve setting and cable rigging.
3. Inspected belly duct vent and check valve. No parts were available for repair.

C. Flew a/c on May 18th to check pressurization for the above repairs.
1. Checked cabin pressurization at 65% power and had 4.2 psi when pressurizing off both sources.
2. Cabin pressure was 3.0 psi when pressurizing off the left engine source only.
3. Cabin pressure was 3.1 psi when pressurizing off the right engine source only.
These rate are acceptable and no other repairs are needed.

D. Elevator work. Removed elevators and inspect middle brackets and bearings. Found bearings and brackets were worn allowing excessive play. Installed new brackets, bearings and hardware. Installation was completed by installing parts per kit SK421-130B2 per SNL88-10 revision 1 dated Nov. 3, 2003. Performed an elevator and elevator trim tab travel check. Had to adjust rigging to get correct travels. No change in weight and balance figures. Flew a/c to check elevator system.

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DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

AUTOPILOTS CENTRAL INC

Hangar 23, Tulsa International Airport-Tulsa, OK 74115
(918)836-6418

Sublet Service Completed: 5/09/2022
Description: Elevator Brackets drilling holes in stainless steel.
Performed By: Cuccio, Rick PO #: PO22-23077

The articles and/or work hereon described is/are certified
airworthy (unless otherwise specified).
Autopilots Central, Inc.
FAA CRS CM2R747K
Authorized Signature KENfisher

Autopilots Central, Inc.
3112 North 74th East Avenue
Hangar 23, Tulsa International Airport - Tulsa, OK 74115
(918)836-6418 - Fax (918)832-0136
FAA CRS CM2R747K
Logbook Entry

Sold To: Altimate Aviation
3232 Love Field Drive
Dallas, TX 75320

Work Order: AV22-05630
Acct Number: (972)672-1408

Opened: 2/21/2022
Close Date: 3/23/2022

General Comments:
Thomas Handzlik (972)672-1408

Aircraft Number: N4AF **Type:**CESSNA 421 **S/N:**421-0142

Engt	Type	S/N	Time	Cycles	Prop Type	Prop S/N	Prop Time
1							

Discrepancy: 1
Action Taken:
Ground check FCS-810 autopilot system. Did not see any issues on the ground.

Discrepancy: 2
Action Taken:
Removed computer amplifier, flight controller, co-pilots horizon gyro.

Discrepancy: 3
Action Taken:
PRELIMINARY INSPECTION: Bench tested unit and found pitch gyro causes erratic pitch servo drive - no other problems seen. Needs MOD7 (allows g/s capture closer to center).
WORK PERFORMED: Troubleshoot computer-amplifier, cleaned all connectors and relays, replaced CR903, CR904, CR901 and CR902 on roll/pitch rate board, performed MOD7 to TB1 board, aligned, bench checked and certified in reference to Bendix Manual #IB2810A-1-Rev5-1977.

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
1242-0041	Diode		4.00	Each		$
22K0HM1/4W	Resistor		1.00	Each		$

Discrepancy: 4
Action Taken:
PRELIMINARY INSPECTION: Bench tested unit and found no problem seen.
WORK PERFORMED: Bench checked flight controller okay and certified in reference to Bendix Manual #IB2810A-1-Rev5-1977.

Discrepancy: 5
Action Taken:
PRELIMINARY INSPECTION: Rotor and bearings are bad
WORK PERFORMED: Exchanged for S/N 88286F

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
5000F-6	Artificial Horizon		1.00	Each		$
	S/N: 88286F					

Discrepancy: 7
Action Taken:
Reinstalled computer amplifier, flight controller, and co pilot's horizon gyro.

Discrepancy: 8
Action Taken:
Flew aircraft March 22nd. Adjusted altitude centering, adjusted HDG bank angles, and checked up and down rates. Checked Nav intercept angles and tracking. Shot a great ILS approach to RW18L. All autopilot functions worked fine

Other non autopilot discrepancies noted on the flight: Left propeller control cable is binding or slipping in its clamps. Cabin will only pressurize to 2.4 psi at 75% power. Surface deice boots inflated and deflated fine. Left and right elevator inboard bearings and brackets have excessive play.

DATE 19___	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

Autopilots Central, Inc.
3112 North 74th East Avenue

Part Number	Description	Credit	Quantity	Units	Unit Price	Extended
AVGAS	AvGas		73.20	Gallon		$
Miscellaneous Charges:						
					Misc Supplies	$
Totals:						
					SubTotal:	$
					Charges:	$

The articles and/or work hereon described is/are certified airworthy (unless otherwise specified).
Autopilots Central, Inc. FAA CRS CM2R747K

Authorized Signature

Parts installed may be FAA/PMA'd or STC's parts and not of "Original Equipment Manufacture" (OEM) and as such are not covered by the OEM's Warranty.

Augustus Aviation Service
9000 N. Navarro Rd.
Corsicana Tx, 75109
(469)235-4674

Airframe

AFTT: 3054.8
Hobbs: 449.8
Date: 11/1/2022
N4AF

Completed an Annual inspection to Airframe in accordance with FAR43 appendix D with reference to Cessna 402C inspection guide. Opened airframe and jacked aircraft. Performed 5 landing gear cycles and one emergency gear extension. System functioned normally. Lubed airframe, inspected and greased wheel bearings, serviced ships battery. Removed ELT battery and replaced with new 1ea P/N: . Tested ELT in accordance with FAR 91.203 (c) and unit functioned normally, battery due 8/24. Removed wastegate V band clamps from both engines and installed 2 new P/N: 2271-200. C/W AD16-07-24 Elevator trim hardware inspection completed and found in limits, due again @ AFTT:3154.8, C/W AD48-26-02 paper Induction filters by inspection of engine air inlet filter, due replacement @ AFTT: 3310.0or on condition which ever comes first. C/W AD2000-01-16 on both engines par (b) visual due ea 50hrs or 30 days whichever comes later, Par (c) remove and inspect tailpipe due each 12 months, Par (d) Par (e) pressure check due each 12 months, Par (F) multi segmented v band clamps, Par (g) Removal and overhaul of exhaust components aft of risers due each 12 years or 2,500 hours. C/W AD 04-25-16R1 Heater fuel regulator/ shutoff due again in 100hrs. C/W AD 04-21-05 Janitrol heater pressure check and air switch inspection completed on heater model B-3040 P/N: A34D35 S/N: 0472489-3. C/W AD 2016-17-08 by inspection, found within limits due again in 100hrs or 12 months. AD 18-03-R1 lower carry through spar cap integrity due before AFTT 12,000. Heater Hobbs reads . Checked ADs through Biweekly 2022- 23. I certify this Airframe has been inspected in accordance with an Annual inspection and was determined to be in Airworthy condition. END.

William Koonce A&P3014392IA

GLOBAL AVIATION SERVICES, INC.

9107 A Boudreaux RD
Hanger X-54
Tomball, TX 77375
281-443-3533

Log Book Entry

N4AF

Feb 10, 2023

Type of Aircraft: Cessna 421 Serial No: 421-0142 HOBBS: 479.0

Preformed the following maintenance actions:

Install New main Ship Battery P/N G-244 S/N off G021872290 S/N on G03161593

All maintenance on this Aircraft/Engine/Propeller was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to work performed.

Carl Alexander Ploch
A&P 3703286

GLOBAL AVIATION SERVICES, INC.

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Log Book Entry

9107 A Boudreaux RD
Hanger X-54
Tomball, TX 77375
281-443-3533

N4AF

March 07, 2023

Type of Aircraft: Cessna 421 Serial No: 421-0142 HOBBS: 481.1

Preformed the following maintenance actions:

Replaced No. Engine starter and Start contactor. P/N PM2407 S/N H-W120854, new Hartzell Engine Tech Approval ODA-100082-CE Contactor P/N 604H193. Installed new surplus Left Hand brake assembly P/N 9543163 S/N unkwn.

All maintenance on this Aircraft/Engine/Propeller was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to work performed.

Carl Alexander Ploch
A&P 3703286

GLOBAL AVIATION SERVICES, INC.

Log Book Entry

9107 A Boudreaux RD
Hanger X-54
Tomball, TX 77375
281-443-3533

N4AF

Aug 15, 2023

Type of Aircraft: Cessna 421 Serial No: 421-0142 HOBBS: 483.1

Preformed the following maintenance actions:

Investigate High oil consumption on No2 engine. Cleaned w Varsol. Found no evidence of oil leakage. Replaced No.2 engine RPM Tach generator with overhauled P/N 22A677 S/N Off A11785 S/N on 20162 Accessories, Inc. CRS#TM2R192L WO# 87910.
Installed Overhauled No. 2 Alternator P/N ALV-9610 S/N on H-W101644 Hartzell Engine Tech CRS# New, WO# M493790
Resealed No2 engine fuel injectors with seals P/N SA630979-9. Replaced No. engine tail pipe P/N A5155156-48 with new Aerospace Welding Mn. Approval# 636244947

All maintenance on this Aircraft/Engine/Propeller was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service with respect to work performed.

Carl Alexander Ploch
A&P 3703286

Global Aviation Services WO 2312-6721

raft Model:	Aircraft S/N:	Reg No:	AC Tach:	AC Hobbs:	AC TT:	Date:
:ssna 421	421-0142	N4AF	494.7/490.3	485.1	3090.1	05/22/2024

ıed annual inspection and the following work in reference to Cessna Maintenance Manuel P/N D817-15-13 and IPC P/N P501-7-12
W 14 CFR 43 Appendix D:

2004-25-16 R1: C/W para (e)(1) by visual inspection IAW SB A-1207A. **Next due:** 04/30/2025 or 3190.1 TT.

2018-03-03 R1 (Carry Through Spar Cap): Para (i) due at 15,000 ACTT.

2016-17-08 (Elevator Trim Tab): C/W para (f)(2) by installation of new elevator trim push-pull rod attachment hardware: bolt P/N 64P3-98 (x2), washer P/N NAS1149F0332P (x2), nut P/N MS17826-3 (x2), and cotter-pin P/N MS24665-132 (x2). **Next due:** /2025 or 3200.1 TT.

72-02-01 (Propeller Attachment Nuts): C/W para (d) by installing supplement in AFM.

73-222-01 (Fuel in Wing Leading Edge): C/W by installing checklist and supplement in AFM.

2014-03-03 (Icing Placards): C/W para g)(1-2) by installing supplement in AFM and placard (para (g)(2)(ii)(B) on instrument panel.

2000-01-16 (Exhaust Inspection): Para (b): C/W by inspection. **Next due:** 3140.1 TT or 05/12/2024 whichever is later. Para (c): C/W moval, inspection, and installation. **Next due: 04/30/2025.** Para (d): C/W by inspection. **Next due:** 3590.1 TT. Para (e): C/W by :ction and pressure test. **Next due:** 04/30/2025. Para (f): P/C/W, see log entry dated 11/01/2022. **Next due:** 3554.8 TT. Para (g): P/C/W, og entry dated 11/01/2022. **Next due:** 11/30/2034 or 5554.8 TT whichever occurs first.

LT Inspection: C/W ELT inspection by visual inspection IAW 91.207(d). **Next due: 04/30/2025. Battery Expiration:** 03/2032.

stalled new battery P/N PX28L in ELT remote switch. **Next due:** 05/31/2028.

stalled new L/H prop control cable P/N 9910272-43 with new rod end P/N S3059-3 and new bolt P/N AN3-10-A. Sealed pressurized cture around cable. Removed ram air inlet at L/H wing root to facilitate installation, installed, and sealed.

erviced all tires with nitrogen.

ubed flight controls.

Greased all wheel bearings and landing gear assemblies.

Inspected (3) aux. fuel pump screens. Installed new filter and gasket assembly P/N FEP42370 in cabin heater fuel pump.

Tightened nut at L/H fuel bladder to hose connection at engine nacelle.

Installed new L/H engine crossover exhaust tube P/N K9910379-15. Installed new bolts P/N AN3C-17, washers P/N AN960-C10, springs 186-225, nuts P/N AN310-C3, and cotter-pins P/N MS24665-153 at L/H and R/H engine exhaust slip joints. Pressure tested exhausts.

Installed new insulation P/N HFZZ034 at left exhaust tailpipe heat shroud.

Installed new bushings P/N 5041013-2 (x4) and P/N 5041017-2 (x8) on L/H and R/H MLG torque links.

Removed, cleaned, inspected, and installed Tanis heater spark plug.

Installed (2) serviceable nose heater duct clamps.

[illegible] WO# 282288 dated 01/08/2024 and

DATE 19__	TOTAL TIME IN SERVICE	REFERENCE OF MAJOR REPAIRS AND MAJOR ALTERATIONS TO FAA FORM ACA-337 BY DATE, OR TO THE WORK ORDER BY NUMBER AND THE APPROVING AGENCY.

DATE 19 89	A. D. NUMBER	TOTAL TIME IN SERVICE	AIRWORTHINESS DIRECTIVES CHRONOLOGICAL LISTING OF COMPLIANCE AND METHOD OF COMPLIANCE.
5/1/89	69-14-01		PAR A, B, C, D & E no longer applicable because of paragraph E being previously complied with. AD is no longer applicable.
5/1/89	72-02-01		paragraphs A, B, C Have been p/c/w. Need to comply with Para D - Rev No 3 Dated 12/3/71.
5/1/89	72-03-07		AD needs to be complied with by chemical test on gear.
5/1/89	72-11-05		c/w leak inspection of Fokix Fuel cells.
5/1/89	72-14-08		c/w Leak inspection of Flammable Fuel Lines.
5/1/89	73-02-01		Landing edge mod Fin kit has been p/c/w. Need Flight manual revision per MEB-5 to complete AD Req.
5/1/89	75-02-05 R3		NEED to have complete RD c/w.
5/1/89	76-08-02 R2		N/a because of Grimes p/N 32-01943 installed in the
5/1/89			left & Right type positions.
5/1/89	76-13-07		AD needs to be c/w.
5/1/89	78-13-05		AD to be complied with upon installation of interior
5/1/89	87-21-02		AD needs to be c/w.
5/1/89	88-19-02		N/a because of S/N.

DATE 19__	A. D. NUMBER	TOTAL TIME IN SERVICE	AIRWORTHINESS DIRECTIVES CHRONOLOGICAL LISTING OF COMPLIANCE AND METHOD OF COMPLIANCE.
			Engine magnetos
	73-07-04		N/A by S/N
	74-26-09		N/A by S/N-P/N
	78-09-07		N/A NO impluse coupling
	78-18-04		N/A by model number
	79-12-07		N/A by model number
	79-18-06		N/A by model number
	80-17-14		N/A by model Number
	81-12-06R1		N/A by model number
	82-11-05		N/A by model Number
	82-18-01		N/A no green block
	82-20-01		N/A by model number.
		Governor	
	70-16-01		N/A by S/N
	70-26-02		N/A by S/N
	81-25-01		N/A by S/N.
		Alternator.	
	76-02-07		10 hr inspection check Required

[signature] 2945

MEMORANDA

FLIGHTSTAR AEROMOTIVE

16111 Addison Road, Suite 100, Addison, TX 75001

AIRFRAME LOGBOOK ENTRY

N4AF

Cessna 421 S/N 421-0142 Hobbs: 205.7 AFTT: 2811.1 Date: 10/09/2017

Install new drain P/N 79C1 in left main tank, Adjust both lower nose bowls for clearance, Install new P/N 0322541 gasket on left main tank transmitter. I certify this aircraft has been inspected and/or repaired in accordance with current Federal Aviation Regulations and has been determined to be in airworthy condition with respect to work performed.

Joseph L Brown
A&P 2226812

Airframe Log Entry

Date: 08/18/2025 **ACTT:** **ACTL:**
Reg. No.: N4AF **Model:** Cessna 421 **S/N:** 421-0142
Left Engine M/N: GTISO-520-D(21) S/N 219237-R
Right engine M/N: GTISO-520-D(22) S/N 219344-R
Left propeller M/N: 3AF34C92-PR/8901F-2 S/N 763713
Right propeller M/N: 3AF34C92-PR/8901F-2 S/N 950011

I assisted customer with log book research for his aircraft and here is what I have found so far.

Current AD list as of today from the drs.faa.gov website, which is currently due.

AD airframe list-

1. AD 2023-09-09: V band clamp on turbo.
2. AD 2018-03-03 R1: wing spar inspection.
3. AD 2016-17-08: Elevator hardware has to be replaced.
4. AD 2014-03-03: Placard inspection in the cockpit panel and AFM insert.
5. AD 2005-20-25: Avionics switch date inspection.
6. AD 2000-01-16: Both engine exhaust pipe inspection.
7. AD 87-21-02 R1: This AD is old and need to verify if Cessna Service letter ME84-31 has been done.
8. AD 72-11-05: Inspect for fuel leaks under aircraft.
9. AD 92-16-18: Passenger seat reinforcement. This AD is old and need to verify if Cessna service letter ME78-17 has been done.
10. AD 78-13-05: Cabin seat improperly installed.
11. AD 97-01-13: Fuel, oil and hydraulic hoses inspection.
12. AD 76-13-07: Fork bolts inspection and replacement.
13. AD 90-02-13 Main landing gear hardware replacement. This is was complied with in 08-12-2009.
14. AD 76-08-02 R2: Wing tip light inspection. I believe this has been complied with but needs to be verified.
15. AD 73-22-01: Fuel leading edge fuel leak. Need to verify if Cessna Service kit SK421-56 has been complied with. There is no log entry for this.
16. 72-03-07: Landing gear failure. Need to verify if Cessna Service letter ME71-28 has been done.
17. 72-14-08 R1: Flexible hose assemblies inspection. Need to verify if Cessna service letter ME68-23 has been done.
18. 69-14-01: 10 gallon placard install in the cockpit. This is checked at every 100 hour or annual.
19. 72-02-01: Placard inspection in cockpit for propeller nuts.

Engine AD list-

1. AD 2007-05-15: starter adapter shaft gear and crankshaft inspection IAW Teledyne MSB94-4G.

Propeller AD list-

All AD's have been previously complied with.

Here are some other item due for recert-

1. Oxygen bottle is due for hydrostatic.
2. FAR 91.411 and 4.13 is due.
3. Aircraft reweight is also due.

Hobbs meter broke from last annual on May-22-2024 and was logged at 409.9. The times from last annual are as followed, Aircraft total hours: 3090.1 Both propeller hours:560.3 and both engine hours 1190.1. As of now the broken hobbs meter shows 500.9, which would put the aircraft at Airframe: 3181.1, both engines: 1281.1 and both propellers: 651.3. Customer did not proved flight log from last annual to today 8-18-2025.

I have stopped do research due to customer request.

Marcel Massuda Marcel Massuda *A&P* AP3340475

Airframe Log Entry

Date: 03/17/2024 **ACTT:** **ACTL:**
Reg. No.: N4AF **Model:** Cessna 421 **S/N:** 421-0142

Performed the following Unscheduled items:

Pilot squawked-Gear & Stall warning circuit breaker keeps popping.

Trouble shot system and found gear and stall warning circuit breaker was weak. Procured new circuit breaker. Removed gear and stall warning circuit P/N S-1237-7 and installed new circuit breaker alt P/N 11-04122 from Aircraft Spruce and Specialty CO, under C of C order#17102733 and invoice# 7233288. Preformed ops check of gear and stall warning system, system ops checked failed. Gear and stall Circuit breaker still pops. Trouble shot system and while trouble shooting system "Flap down 10 amp CB" top broke off. Removed broken flap down 10-amp circuit breaker, off part number was unreadable and installed new circuit breaker P/N 11-03924 from Aircraft Spruce and Specialty CO, under C of C order#17116144 and invoice# 7235390. Preformed ops check of flap system, system ops checked good. Trouble shoot system and found left hand green gear down lock light was shorted out. Removed all three green gear down lock annunciators P/N MS25041-3 and installed three new green gear down lock annunciators P/N MS25041-3 from, Aircraft Spruce and Specialty CO, under C of C order# 17115921 and invoice# 7235457. After replacing all three green annunciators. Amber unsafe annunciator light was intermittingly working. Removed and replaced amber unsafe light P/N MS25041-4 and installed new amber unsafe light P/N MS25041-4 from Aircraft Spruce and Specialty CO, under C of C order# 17115921 and invoice# 5758844. Preformed ops check gear and stall warning lighting system, system ops checked good. All work was done IAW Cessna 421 service manual and FAA AC 43.13.

I certify that this aircraft has been inspected with respect to the work performed in accordance with inspections and procedures for an inspection program required by FAR 91.409(f)(3), and has been found to be in airworthy condition, and is approved for return to service.

Marcel Massuda Marcel Massuda *A&P* A&P 3340475