

2014-

THE **adlog**TM AIRCRAFT
MAINTENANCE
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SYSTEM

**AIRFRAME
MAINTENANCE
RECORDS**

AIRFRAME MAINTENANCE RECORDS

Log No. _____

Aircraft Registration No. N39WH

Aircraft Mfg. Cessna Model 421C Serial No. 421C-0070

Engine Mfg. _____ Model _____ Serial No. _____

Engine Mfg. _____ Model _____ Serial No. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

Propeller Mfg. _____ Model _____ Serial No. _____

Hub Design No. _____ Hub Serial No. _____

Blade Design No. _____ Blade Serial No's. _____

(All applicable information must be filled in)



AEROTECH PUBLICATIONS INC.

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(631) 765-9375
1-800-235-6444
FAX: (631) 765-9359

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
9-23-14	Hobbs 3511.1		Reinstalled altimeters in panel after certification to 30,000 feet IAW FAR 43 app E. <i>B. O. O'Brien</i> CRS K02R959K Monticello Aviation, Inc.
<p>The ATC Transponder Tests and Inspection Required by FAR 91.413 were performed this Date and found to comply with FAR 43 Appendix F.</p> <p>1 Make <u>King</u> Model <u>KT76C</u> S/N <u>2210</u> 2 Make <u>x</u> Model <u>x</u> S/N <u>x</u></p> <p>Details of this inspection are on file at this Facility under W.O. # <u>12791</u> Date <u>9-23-14</u> Signed <u><i>B. O. O'Brien</i></u> Monticello Aviation Monticello, IA CRS K02R959K</p> <p>The following altimeter system and altitude Reporting equipment test and inspections as Required by FAR 91.411 law FAR 43, Appendix "E" have been performed:</p> <p>para (a) Static System <u>9-23-14</u> date para (b) Altimeter(s) <u>9-23-14</u> date Pilot's S/N <u>1900</u> C/P's S/N <u>59029</u> Tested to: <u>30,000</u> feet. Para (c) Integrated System Test <u>9-23-14</u> date Signature: W.O. # <u>12791</u> <u><i>B. O. O'Brien</i></u> Monticello Aviation Monticello, IA K02R959K</p>			

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TOTAL brought forward from previous page			
	Hobbs 3783.7		1- Installed new R/H main tire and tube. P/N 6.50-10-10 S/N 4087S00171. 2- Installed new O-rings to R/H brake caliper P/N MS28775-132 and serviced brake system with 5606A hydraulic fluid. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791IA Fargo Aircraft Maintenance Inc.

Date 7-13-16 Hobb 3783.7
1-C/W AD 2016-07-24 elevator trim bolt replace as per MEB-27-02 AD par f(1).
David Sahl A&P 3493300

D. Sahl
Fargo Aircraft Maintenance Inc.

N39WH
Date 08-23-2016
Hobb 3785.9 TT 5977.4 Heater Hobb 1814.3
1- C/W AD 2000-01-16 Par (b) Visual . Par (c) Tail pipe inspection. Par (e) Pressure check. On Right and Left engine.
2-C/W AD 07-05-2015 Back lash insp. MSR-94-4C Part2 right and Left engine.
3- C/W FAR 91.207 d ELT inspection. Battery next due Dec. 2016
4-C/W AD 2016-07-24 elevator trim bolt inspect.
5-Replaced left wheel dust cap P/N 158-00800.
6-Replaced fwd cabin door cable with new
I Certify that this Aircraft was inspected as per a Annual Inspection and was determined to be in airworthy condition
David Sahl A&P 3493300 IA

D. Sahl
Fargo Aircraft Maintenance Inc.

N39WH
Date 09-06-2016
Hobbs 3798.6
1-Changed oil and oil filter. Cut filter no contaminates noted.
2- C/W AD 2000-01-16. Par (b) exhaust inspection no Defects noted.
David Sahl A&P 3493300

D. Sahl
Fargo Aircraft Maintenance Inc.

Note: Fire ex completed at this time. weight 5.4 lbs
D. Sahl
HP 3193300

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N39WH Date 09/16/2016 Hobbs 3803.5			<p>1- Serviced air-conditioning hydraulic system with 5606A fluid. Checked for leaks at all fittings. Run up leak and operational check satisfactory.</p> <p>2- Removed AFT forward facing seats per owner. Weight and balance computed.</p> <p><i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.</p>

FARGO JET CENTER INC 3802 20th St. North, Fargo, North Dakota 58102 U.S.A. Phone: 701-373-8840 Fax: 701-280-0300

AIRCRAFT LOGBOOK INSERT

Date: **03 OCTOBER 2016** N NUMBER: **N39WH**
 MAKE: **CESSNA** MODEL: **421C** S/N: **421C0070** HOBBS: **6817.6**
 Special Inspections and Time Life Items Complied with at this time:

- C/W Biennial 91.411, and 91.413 by:
 - Tested pilots encoding altimeter model EA801A S/N 1900 to 35,000 feet per part 43 Apx E test ok.
 - Tested Copilots altimeter United model 5932 S/N 59029 to 35,000 feet per part 43 Apx E test ok.
 - Tested dual integrated system to 35,000 feet per part 43 Apx E test ok.
 - Tested transponder #1 King KT76C S/N 6104 per part 43 Apx F test ok.
 - Tested transponder #2 King KT76C S/N 6074 per part 43 Apx F test ok.
 - Tested dual static system per part 43 Apx E and manufactures procedures C421C MM section 10, test ok.
 - Applied stickers, filled out worksheet, and made logbook entry.

Maintenance items addressed at this time:

- Installed clamps on static hoses, behind copilots panel. and tested copilots static system ok. Found, alternate static selector valve selected to alternate but handle positioned incorrectly, repositioned handle and tested system ok.
- Adjusted altitude capture Sperry model A801 and tested ok per manufactures MM P/N D4556-13-RAND-200-7/77, no defects noted.
- Flushed aft static system per Cessna 421 MM section 10, test ok.

~ END ~

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at this agency under Work Order No. **021647** Date: **03 OCTOBER 2016**.

Signature of authorized Person: *Mike DeVries* Mike DeVries
 For FAA CERTIFIED REPAIR STATION NO. CTUR016D

N39WH Hobbs: 6817.6
 The altimeter and encoder tests required by CFR 14 Part 91.411 have been performed and found to comply with CFR 14 Part 43 Appendix E Paragraph (b).
 Altimeter #1 S/N 1900 tested to 35,000 feet, dated 10/3/16
 Altimeter #2 S/N 59029 tested to 35,000 feet, dated 10/3/16
 Encoder #1 S/N 1900 tested to 35,000 feet, dated 10/3/16
 Encoder #2 S/N tested to feet, dated
 The static system tests have been performed and found to comply with CFR 14 Part 43 Appendix E Paragraph (a).
 The ATC transponder tests required by CFR 14 Part 91.413 have been performed and found to comply with CFR 14 Part 43 Appendix F.
 Transponder #1 Model KT76C S/N 6104
 Transponder #2 Model KT76C S/N 6074
 The integrated system has been tested and found to comply with Part 43 Appendix E Paragraph (c). Details of these inspections are on file at this repair station under:
 Work Order Number: 21647
 Signed: *David Sahl* Date: 10/3/16
 Fargo Jet Center CRS CTUR016D

N39WH
 Date 10-03-2016
 Hobb 3817.6
 1-C/W AD 2016-17-08 , Par f(2) (3) & MEB-27-02.
 Note supersedes AD 2016-07-24
 David Sahl A&P 3493300
D Sahl
 Fargo Aircraft Maintenance Inc.

1. Approving Civil Aviation Authority / Country: FAA / UNITED STATES
 2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG 1070K-0000
 3. Form Tracking Number AA 1070K-0000
 4. Organization / Name and Address: Aero Accessories, Inc. 1240 Springwood Church Road, Gibsonville, NC...
 5. Work Order / Contract / Invoice Number: 1070K-0000
 6. Item: 1 Dry Air Pump
 7. Description: 441CC-7
 8. Part Number: 1
 9. Quantity: 1
 10. Serial Number: 070K07
 11. Status / Work: OVERHAUL
 12. Remarks: OVERHAULED ONE OF THE FOLLOWING FAA APPROVED PROCESSES: 203-6-1009, 203-6-1010, 203-6-1011, 203-6-1012 CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 11/12 WAS CARRIED OUT IN ACCORDANCE WITH THE WORK THE COMPONENT IS CONSIDERED READY FOR RELEASE TO SERVICE FOR WORK PERFORMED UNDER EASA ACCEPTANCE CERTIFICATE NUMBER EASA 145.5892
 13a. 14 CFR 43.9 Return To Service
 Other Regulation Specified in Block 12
 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
 13b. Authorized Signature: *Kevin Pattengale*
 13c. Approval Certificate No.: YV4R688M
 13d. Name (Typed or Printed): Mitch Murphy
 13e. Date (dd/mm/yyyy): 11/Aug/2014
 User/Installer Responsibility: User/Installer Responsibility

MONTECELLO AVIATION INC., Monticello, IA. 52310
 Scale Corrections S-N 1900

Altimeter Reads	Up	Down	After Effects		
			Altimeter Reads	Up	Down
- 1000	0		14000	+20	
- 500	0		16000	+80	
0	0		18000	+90	
500	0		20000	+40	
1000	0		22000	0	
1500	0		25000	+80	
2000	+5		30000	+100	
3000	+25		35000		
4000	+30		40000		
6000	0		45000		
8000	+35		50000		
10000	+90				
12000					

Date: 9-23-14 Tested by: *Alan*

1. Approving Civil Aviation Authority / Country: FAA / UNITED STATES
 2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG 4485824
 3. Form Tracking Number 4485824
 4. Organization / Name and Address: Cessna Aircraft Company (PC4) Cessna Parts Distribution Dept. 702 5800 E Pawnee, Wichita, KS 67218
 5. Work Order / Contract / Invoice Number: 1430690
 6. Item: 10 CAP, UPPER 5054030-34
 7. Description: CAP, UPPER 5054030-34
 8. Part Number: 1
 9. Quantity: N/A
 10. Serial Number: New
 AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL.
 PO# 000778
 13a. 14 CFR 43.9 Return to Service
 Other regulation specified in block 12
 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.
 13b. Authorized Signature: *Marilyn K. Farber*
 13c. Approval Certificate No.: ODA-100129-CE
 13d. Name (Typed or Printed): MARILYN K. FARBER
 13e. Date (dd/mm/yyyy): 30/JAN/2015
 User/Installer Responsibility: User/Installer Responsibility

MONTECELLO AVIATION Inc., Monticello, IA. 52310
 Scale Corrections S-N 59029

Altimeter Reads	Up	Down	After Effects		
			Altimeter Reads	Up	Down
- 1000	0		14000	-35	
- 500	0		16000	0	
0	0		18000	-25	
500	0		20000	-30	
1000	0		22000	-30	
1500	0		25000	-35	
2000	+5		30000	-35	
3000	+25		35000		
4000	+25		40000		
6000	+10		45000		
8000	0		50000		
10000	-10				
12000	-15				

Date: 9-23-14 Tested by: *Alan*

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
10-6-14	Hobbs 3525.5	TOTAL	brought forward from previous page
			Replaced LH landing light assembly with overhauled unit P/N 45-0148-4 S/N 61448. See 8130-3 form. Checked operation of light -OK. J. Osterlund for CRS K02R959K Monticello Aviation, Inc.
1-9-15	Hobbs 3593.8		
			Replaced fan motor on cabin heater with overhauled unit P/N 722043. Operational check of heater -OK. J. Osterlund for CRS K02R959K Monticello Aviation, Inc.

DATE 01/08/15

RETURN TO SERVICE

The aircraft component identified below was repaired and inspected in accordance with current federal air regulations and was found airworthy for return to service. Pertinent details of the repair on file at this agency under work order # 3143

AUTHORIZATION - FAA CERTIFIED REPAIR STATION # LG5R014N

SIGNED: Melissa Moser

COMBUSTION HEATER

MAJOR OVERHAUL: NEW DURAKOAT COMBUSTION TUBE, NEW PARTS AS REQUIRED

ROUTINE OVERHAUL: NEW PARTS AS REQUIRED EXCEPT COMBUSTION TUBE

REPAIRED COMBUSTION HEATER

ACCESSORIES

NEW REPAIR OVERHAULED

AD 2004-21-05 JANITROL AD 81-09-09 SOUTH WIND

OTHER N/A

MANUFACTURED BY Southwind

MODEL NUMBER N/A

PART NUMBER 722043

SERIAL NUMBER N/A

C&D ASSOCIATES, INC.
 Comb. Heater Service Test Equipment
 302 Post Road, Buchanan, MI 49107
 269-695-7469
#007 YELLOW STOCK

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
2-6-15	Hobbs 3596.4	5787.9 AFTT	Completed annual inspection at this time using Cessna 421C maintenance manual checklist. Checked cables, pulleys and bellcranks. Checked cable tensions. Greased all cable seals. Checked and lubed flight control hinge points. Checked wing, tail and gear attach points. Checked wheels, tires and brakes. Installed new brake discs and brake linings to both brakes. Checked and greased wheel bearings. Checked and greased gear pivot points. Performed gear retraction test- all gear function normal. Checked operation of gear warning horn and lights. Replaced hydraulic filters with new. Serviced hydraulic reservoirs. Serviced brake master cylinders. Checked interior and exterior lighting. Checked aircraft battery. Replaced vacuum regulator filters with new. Installed new propeller deice brushes to LH propeller block. Checked ELT condition and operation per Part 91.207d. Installed new ELT battery- now due 12-16. Installed new RH engine mount crossmember beam P/N 5054030-42 to replace cracked unit. C/W AD 00-01-16R (2-15-000 by exhaust inspection and repair per (b) (c) (d) (e) and (g) by Dawley Aviation- see release tags and engine logs. Cleaned main fuel strainers. Checked fuel fillers and tanks. Checked seats, belts and upholstery condition. Checked cabin doors and windows. See AD listings
			I CERTIFY THAT THIS AIRCRAFT/ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH ANNUAL/100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.
			TACH HOURS <u>3596.4</u> DATE <u>2-6-15</u> W.O. NO. <u>12845</u> BY <u>[Signature]</u> MONTICELLO AVIATION, INC. REGIONAL AIRPORT, MONTICELLO, IA FAA CERTIFIED REPAIR STATION #K02R959K
3-12-15	Hobbs 3623.7		Installed new P/N 5054030-34 upper cap skin to LH engine carry through beam (engine beam) by riveting in place after removal of cracked cap skin. All work done per standard aircraft practices and Cessna 421C service manual information.
			*Pertinent details of the repair are on file at this repair station under Work Order No. <u>12866</u> Date <u>3-12-15</u> Signed <u>[Signature]</u> for Monticello Aviation Inc. CRS K02R959K Monticello Airport, Monticello, IA 52310

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DATE	TOTAL TIME	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			N39WH Date 07-20-2015 Hobb 3655.1 1- Patch on Left elevator and right stabilator inboard rear trailing edge not documented. Work completed by persons un known. Patches were found to be installed as per Model 421C Series Service Manual Chapter 15 Control surface repair fig 27 Chapter 15-40 page 31. Chapter 15-20 page 3 ,4. And acceptable methods set fourth in AC43.13-1B. See 337 Dated this date. Balanced Left Elevator as per Model 421C Series Manual Chapter 1-90 page 10 , 11. Balance with in specs. David Sahl A&P 3493300 <u>[Signature]</u> Fargo Aircraft Maintenance.
			N39WH Date 07-27-2015 Hobb 3676.4 TT 1- C/W AD 95-09-13 Fuel Float Valve. As per MEB93-10R1. Test satisfactory. David Sahl A&P 3493300 <u>[Signature]</u> Fargo Aircraft Maintenance Inc.

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Date 08-14-2015
 Hobbs 3679.4
 1-Placarded the following- oxygen relief plug, R/H Fuel sump, Yoke switch/markings
 2-Installed seat #6 seat stop.
 3-Installed elevator trim limit button.
 4-Removed portable GPS Shelf on instrument dash. Weight and Balance negligible. Install not in records.
 5-Operation placard fabricated as per original and POH. Installed on Pilot left side wall.
 6-Installed passenger Ox masks with 13-18940 AEROX in seat back pouches .Installed new pilot oxygen mask at pilot mask stow. P/N 174406-01. ops check ok.
 7-Passenger briefing cards updated and installed.
 8-Installed Loaner ADI Horizon P/N 4020501-431 S/N 1-7010587 . Duncan Aviation WO# XWZFA. Dated 10-16-2014. ops check ok.
 9- Heater inspection AD 81-09-09 250hr visual inspection. HH 1807.9 next due 2057.9 heater hobb.
 10-C/W Engine fire bottle hydro check and recharge. New squibs installed. Next inspection due 08-2020.
 P/N 30111102 S/N R865 right pos S/N R1125Left Pos.
 See Aerospace Turbine Rotables WO# WO75486 and WO#WO75487 dated 08-06-2015.

David Sahl A&P 3493300

Fargo Aircraft maintenance Inc.

N39WH
 Date 08-17-2015
 Hobbs 3682.4
 1- Installed new Fire Extinguisher Model 2.5 HB-2 Weigh next due 02-2016.
 David Sahl A&P 3493300

Fargo Aircraft Maintenance Inc.

N39WH
 Date 08-17-2015
 Hobbs 3682.4
 1- Installed overhauled lift detector P/N 186-8 S/N 946 as per Cessna 421C Service Manual. Chapter 13-40.
 Overhaul by Safe Flight WO# 505105 dated 01-04-99.
 David Sahl A&P 3493300

2- Test flight Complied with as per Cessna 421C Service Manual Chapter 13-40. Approach configuration stall speed met the parameters of fig. 2 .

Pilot [Signature] PP# 3620578

RMED—
 PERFORMING WORK

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page
5-18-15	Hobbs 3443.5		Replace CHT probe in LH engine #2 cylinder for factory CHT gauge with serviceable probe. Operational check - OK. [Signature] or CRS K02R959K Monticello, Iowa
			N39WH Date 06-12-15 Hobb 3655.1 AFTT 1- Re secured wiring for R/H EGT Ops check ok. 2- Replaced Hydraulic pressure switch for landing gear P/N 9910287-10. Swung gear leak check and function check ok. 3-Replaced right prop de-ice brushes all P/N B40012. Cleaned slip ring. Ops check ok. David Sahl A&P 3493300 [Signature] Fargo Aircraft Maintenance Inc.

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N39WH
Date 6-26-2015

DATE

Weighed Aircraft this date. Installed in POH. Results as follows.

Aircraft Weighed with fuel drained, full oil at jack pts.
as per Section 6 of P.O.H.

	Weight	Arm	Mom
Nose	2240	99.46	222790.4
L Main	1966	186.15	365970.9
R Main	1086	186.15	202158.9
	<u>5292</u>		<u>790920.2</u>

Empty Weight 5292.00
 Empty weight C.G. 149.46
 Max Ramp weight 7629
 Max Take off weight 7579
 Max Landing weight 720

Above Limitations as per STC SA5193NM Micro VG System

Prepared by David Sahl A&P3493300

Fargo Aircraft Maintenance Inc.

Scale type SI Technologies Model JP15000-4
 Calibration due July 2015

REFORMED—
SON PERFORMING WORK

N39WH
 Date 12-07-2015
 Hobb 3690.2 TT 5881.7 Heater Hobb 1807
 1- C/W AD 2000-01-16 Par (b) Visual . Par (c)
 Tail pipe inspection. Par (e) Pressure check. On
 Right and Left engine.
 2-C/W AD 07-05-2015 Back lash insp. MSR-94-4C Part2
 right and Left engine.
 3- C/W FAR 91.207 d ELT inspection. Battery next due
 Dec. 2016.
 3- Repaired left wing ice light wire at lamp receptacle
 by soldering.
 4- Replaced fuel transducer Right engine with serviceable.
 P/N 680501 S/N 99186. Ops check ok. No leaks noted.
 5- Right engine removed due to metal contamination.
 Repaired by RAM aircraft se RAM project # 7839 for details.
 Installed and rigged as per Cessna 421 Service Manual.
 see engine log for details.
 I Certify that this Aircraft was inspected as per a Annual
 Inspection and was determined to be in airworthy condition
 David Sahl A&P 3493300 IA

Fargo Aircraft Maintenance Inc.

N39WH
Date 07.2/2015
Hobbs 3670.5

- 1- Died L/H brake system with 5666A fluid ops check satisfactory.
- 2- Installed all new static wics P/N DG16165.
- 3- Checked for all required placards for 135 operation.
- 4- Labeled pilots yoke for proper auto pilot controls.
- 5- Repaired R/H baggage locker lock for proper operation.

David Sahl A&P 3493300

*N39WH
Date 07/21/2015
Hobbs 3676.4*

- 1- Repaired wiring For L/H Engine EGT
Cylinder # 2 and #3. Operations
Check Satisfactory.

*Kevin Pattengale
 Kevin Pattengale A&P3132791 IA
 Fargo Aircraft Maintenance Inc.*

N39WH
Date 12/10/2015
Hobbs 3694.5

- 1- Removed R/H vacuum pump P/N 441CC-7 S/N 98067 and installed overhauled vacuum pump P/N 441CC-7 S/N 070K07. Overhaul performed by Aerospace Accessories Inc. See W/O # 1070K-000 dated 11/Aug/ 2014 for detailed overhaul Information. Operational check satisfactory.

Kevin Pattengale
 Kevin Pattengale A&P 3132791 IA
 Fargo Aircraft Maintenance Inc.

N39WH
Date 12/31/2015
Hobbs 3707.1

- 1- Removed R/H engine tachometer generator P/N MS25038-2 S/N 285879 and installed overhauled tachometer generator P/N MS25038-2 S/N 106540. Overhaul performed by Accessories Inc. See W/O # 73534R dated 06/Feb/14 for detailed overhaul information. Run up operational check satisfactory.
- 2- Installed Tanis system on R/H engine P/N TSP6CYL-2927-115 S/N 50213 Per STC #E03309CH installation instructions. Operational check satisfactory.
- 3- Installed Tanis system on L/H engine P/N TSP6CYL-2927-115 S/N 50214 Per STC #E03309CH installation instructions. Operational check satisfactory.
- 4- Weight and balance negligible. Equipment list updated.

Kevin Pattengale
 Kevin Pattengale A&P3132791IA
 Fargo Aircraft Maintenance Inc.

Removed E-Z heat system,
 Installed Tanis System

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DATE	N39WH Date 01/14/2016 Hobbs 3718.7	< PERFORMED— PERSON PERFORMING WORK
	1- Installed new R/H landing light retract worm gear P/N A6582 Operational check satisfactory. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.	
	N39WH Date 2/19/2016 Hobbs 3742.6 Heater Hobbs 1808.4	
	1- Removed South Wind Aircraft Heater P/N 9910088-1 S/N 161. Installed direct replacement New C&D Pressurized Combustion Heater Model CD45K P/N CD14078-1 S/N 2453. Installation performed IAW C&D installation instructions. C&D MM 10001 Maintenance manual and Cessna 421C series maintenance manual. POH updated with Continued Airworthy Inspection and Operating Instructions. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.	
	N39WH Date 02/22/2016 Hobbs 3744.8	
	1- Installed new L/H main wheel tube P/N 6.50-10 and serviced tire to proper pressure. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.	
	N39WH Date 03/18/2016 Hobbs 3744.9	
	1- AD 2000-01-16 Para (b) visual inspection of R/H and L/H exhaust systems C/W. No discrepancy found at this time. 2- Repaired wiring for cylinder # 2 R/H engine JPI. Ops check satisfactory. 3- Serviced nose strut with nitrogen. 4- Serviced O2 system to 1400 Psi. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.	
	<i>Date 03-18-16</i>	
	<i>Hobb 3744.9</i>	
	<i>1- weigh fire extinguisher. ok for service</i>	
	<i>DJP</i>	
	<i>P/N 3193300</i>	

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
N39WH Date 11/30/2016 Hobbs 3830.7			1- Removed heater fuel pump P/N CD21586, fuel solenoid valve P/N G700748 and Filter assembly P/N AN6010-1. Installed new fuel pump P/N 22187 and regulator assembly P/N 22186. Installed new heater ignition control unit P/N CD21381. Run up and operational check satisfactory. 2- Installed new L/H main tire P/N 650.10. and serviced to 70 psi. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791IA Fargo Aircraft Maintenance Inc.
N39WH Date 12/07/2016 Hobbs 3835.5 Heater Hobbs 1823.6			1- Checked aircraft heater fuel pump regulator pressure. Pressure found to be within Specs as per C&D Associates Cabin heater Maintenance manual and installation instructions. On cycle pressure 8 psi Off cycle 9.5 psi. Ran cabin heater numerous times. Operational and leak check satisfactory. 2- Inspected heater spark plug and lead. Condition found to be satisfactory. Installed ground wire from ignition unit to airframe ground to remove background noise at head set. 3- AD 2000-01-16 Para (b) visual inspection of L/H and R/H exhaust systems C/W. No discrepancy found at this time. 4- Inspected de-ice brushes on L/H propeller. Condition found to be satisfactory. Operated prop de-ice system at run up. Operational check satisfactory. 5- Installed one new L/H prop spinner shim spacer P/N 0850330-3. <i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.
N39WH Date 2/13/2017 Hobbs 3860.9 Heater Hobbs <i>1830.9</i>			1- Removed aircraft heater P/N CD14078-1 S/N 2453 for repair. 2- Repair performed by Hartzell Engine Technologies Inc. See W/O # M969510 Dated 07/Feb./2017 for detailed repair information. 3- Re installed aircraft heater P/N CD14078-1 S/N 2453 after repair. Operational check and leak check satisfactory. 4- Installed new L/H landing light lamp P/N 4553 ops check satisfactory. 5- Installed overhauled R/H propeller P/N 3FF32C501-A/G-90UMB-0 S/N 870444. Overhaul performed by Maxwell Aircraft Services Inc. See W/O # 121750 Dated February 13 2017 for detailed overhaul information. Run up operational and leak check satisfactory. 6- Installed overhauled L/H propeller P/N 3FF32C501-C/G-90UMB-0 S/N 850695. Overhaul performed by Maxwell Aircraft Services Inc. See W/O # 121749 dated February 13 2017 for detailed overhaul information. Run up operational and leak check satisfactory. 7- Installed Overhauled L/H prop governor P/N DCF5290D7/T6 S/N 780163. Overhaul performed by Maxwell Aircraft Services Inc. See W/O # 121751 Dated February 13 2017 for detailed overhaul information. Run up operational and leak check satisfactory. <i>Kevin Pattengale</i> Kevin Pattengale A&P3132791IA Fargo Aircraft Maintenance Inc.

TOTAL-Carry forward to next page

N39WH
Date 02-27-2017
Hobb 3863.1

PERFORMED—
PERSON PERFORMING WORK

- 1- Inspected ELT as Per FAR 91.207 d. Replaced Battery. Battery due March 2019
- 2- Replaced L/H engine oil line from front engine To engine turbo scavage tank. Fabricated same As original 3/8 T304 .032 Stainless steel. Ran engine Leak check ok.
- 3- Installed aircraft identification tag under left Horz. Stab. N #, Model and S/N.

David Sahl A&P 3493300

Fargo Aircraft Maintenance Inc.

N39WH
Date 03/13/2017
Hobbs 3863.8

- 1- Installed new oxygen fill valve P/N CM3509-1 and serviced oxygen system to 1875 Psi. Leak check satisfactory.

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

N39WH
Date 03-28-2017
Hobb 3874.8

- 1- Weighed cabin fire extinguisher. Next due September 2017.

David Sahl A&P 3493300

David Sahl
Fargo Aircraft Maintenance Inc.

F WORK PERFORMED—
NO. OF PERSON PERFORMING WORK

N39WH
Date 04-13-2017
Hobb 3881.6 TT 6073.1 Heater Hobb 1838

- 1- C/W AD 2000-01-16 Par (b) Visual . Par (c) Tail pipe inspection. Par (e) Pressure check. On Right and Left engine.
 - 2-C/W AD 07-05-2015 Back lash insp. MSR-94-4C Part2 right and Left engine.
 - 3-C/W AD 2016-17-08 elevator trim par f(2) (3)
 - 4- C/W FAR 91.207 d ELT inspection. Battery next due March 2019
 - 5-Exhaust clamp waist gate 2266c050-240m clamp replaced.
 - 6- Bled Left Brake.
 - 7-Cleaned Heater igniter. Filed air intake stack as per template For more area. Ops check ok.
- I Certify that this Aircraft was inspected as per a Annual Inspection and was determined to be in airworthy condition
David Sahl A&P 3493300 IA

David Sahl
Fargo Aircraft Maintenance Inc.

N39WH
Date 06/08/2017
Hobbs 3913.0

- 1- Installed new L/H wing strobe light lamp P/N 02-0250276-00. Ops check satisfactory.

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc. **AD 06-08-2017**
2-AD 00-01-16 eng ex per (b)
Visual C/W R+L engine

4535 Airport Approach Rd. Duluth MN 55811
(218) 727-2011
MONACO AIR
Cirrus Authorized Service Center
Cessna Authorized Service Facility

Date: 6/27/2017; Aircraft: N39WH. Type: 421C; S/N: 421C0070; Hobbs: 3916.10; Total Time: 3916.10
Shop Order #: 17-9842
Installed a new 600x6 Flight Special nose tire and a new tube. Cleaned and packed nose wheel bearings. Cleaned and inspected rim. Reassembled nose wheel assembly. Reinstalled nose wheel on aircraft. Leak check of nose tire ok.

Signature: *James Imberg*
James Imberg A&P 2751176 IA

N39WH	DATE	7/26/17	1. Co-pilots side window (split window) Hinge pin
Hobbs	3924.6		Removed shoulder on pin to Alerator was working it set set up and out. Ops check good.
			2. L/H AD Fwd Facing seat side cover Installed
			new velcro. Ops check good.
			<i>Kevin Pattengale</i> A&P 3132791 IA
			FARGO AIRCRAFT MAINTENANCE INC.

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DATE	TOTAL TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page		
8-17-17	3932.7	Weighted cabin fire extinguisher Pressure and weight check D. Sahl A&P 3493300
9-15-17	3937.0	Replaced R/H Brake liners with 66-066000 liners, Serviced brake with 5606 ops check ok D. Sahl A&P 3493300
<p>N39WH Date 09/21/2017 Hobbs 3941.8 Heater Hobbs 1844.6</p> <ol style="list-style-type: none"> Cleaned heater fuel filter, Checked spark plug and trimmed air intake supply tube to deliver more air at higher altitude. Operational check of heater satisfactory. Installed rivnuts in floor panel to attach fuel selector flight operation placard. AD 2000-01-16 Para (b) C/W by visual inspection of R/H and L/H exhaust systems. No discrepancy found at this time. <p><i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.</p>		
Date 11-17-2017	Hobb 3958.4	1- Replaced brushes in R/H Alternator, P/N ALE-1013AS, 2- Removed P/H oil temp cannon plug at oil temp sensor. Cleaned and re-secured. 3- Ran aircraft operational check ok. D. Sahl A&P 3493300

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
N39WH	Hobbs 3963.0	Date 12/04/2017	<ol style="list-style-type: none"> AD 2000-01-16 Para (b) visual inspection complied with on R/H and L/H exhaust systems. No discrepancy found at this time. Removed R/H and L/H engine air filters and inspected for sand. Cleaned air filters with air and reinstalled. <p><i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.</p>
N39WH	Date 12/14/2017	Hobbs 3965.2	<ol style="list-style-type: none"> Removed L/H vacuum pump P/N 441CC S/N 148629 and installed overhauled pump P/N 441CC S/N ODB806. Overhaul of pump performed by Aero Accessories Inc. See W/O # 10DB8-0000 Dated 11/Oct/2017 for detailed overhaul information. Run up operational check satisfactory. <p><i>Kevin Pattengale</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.</p>
N39WH	Date 01-19-2018	Hobbs 3976.6, TT 6168.1 Heater Hobbs 1864.7	<ol style="list-style-type: none"> C/W AD 00-01-16 Exhaust Par (b) Visual Par (c) Tail pipe removal Par (d) Beam / Firewall Insp. Par (e) Pressure check. C/W AD07-05-15 Starter adaptor part 2 Back lash insp. R&L engine. C/W AD 2016-17-08 Elevator trim bolts inspect operate. AD 84-26-02 paper filter Not due. Due at 4096.4 Hobbs. ELT tested and inspected as per FAR 91.207 d. Battery expires March 2019 Replaced hydraulic filters AN6235-2A R&L swung gear leak & ops check ok. serviced reservoir full. Repaired wire at light at Co-pilot airspeed Left brake linings installed all 66-06600 <p>I certify that this aircraft was inspected as per an Annual inspection and was determined to be in airworthy condition. David Sahl A&P 3493300 IA</p> <p><i>David Sahl</i> Fargo Aircraft Maintenance Inc.</p>

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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N39WH Date 01-06-2018 Hobb 3969.9			1-Oxygen Bottle Hydro tested by Areospace Turbine Retables WO# 117554 P/N C166001-0813, S/N77933S .Installed serviced and leak checked. 2-Blow down bottle Hydro tested by Areospace Turbine Retables WO# 117553. P/N 9910154-2 S/N 53. Services Nitrogen Leak check ok. David Sahl A&P 3493300 <i>[Signature]</i> Fargo Aircraft Maintenance Inc.
N39WH Date 02/02/2018 Hobbs 3988.6			1- Repaired R/H alternator wiring. Run up operational check satisfactory. <i>[Signature]</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.
N39WH Date 02-22-2018 Hobb 3992.8			1-Weighed fire extinguisher. 2-C/W AD 00-01-16 par (b) visual exhaust R/L engine. David Sahl A&P 3493300 <i>[Signature]</i> Fargo Aircraft Maintenance Inc.
N39WH Date 04/16/2018 Hobbs 4009.7			1- Calibrated L/H fuel tank capacity system. In accordance with Cessna 421C series Maintenance manual. Conditioner very hard to adjust. My need new conditioner at some point in the near future. 2- Re paired wiring for R/H engine exhaust EGT gage reading. Ops check satisfactory. <i>[Signature]</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																				
N39WH Date 05/02/2018 Hobbs 4017.4			1- Removed R/H prop control cable P/N 1220-43 and installed new cable P/N 1220-43. Rugged cable IAW Cessna 421 series maintenance manual and sealed fuselage with PRC B 1/2. Reinstalled Co-pilot seat , floor panels and associated access covers. 2- Removed Co-pilot directional gyro Model # RCA11A-8 S/N 98K0887G and installed Overhauled directional gyro Model # 4000B-30 P/N 14262-001-39 S/N T50525K. Overhaul performed by Kelley Instruments Inc. See W/O # 138141 Dated JAN 29 2018 For detailed overhaul information. 3- Repaired two post lights wiring. 4- Run up of aircraft operational check good. <i>[Signature]</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.																				
N39WH Date 05/07/2018 Hobbs 4017.4			1- Removed L/H fuel quantity conditioner P/N 9910232-9 S/N 3658A and installed overhauled unit P/N 9910232-9 S/N 0597A. Unit overhauled by Tech-Aire Instruments Inc. See W/O # 97286 Dated 05/ Dec / 2017 for detailed overhaul information. Drained L/H fuel tank and adjusted conditioner For zero. Filled L/H fuel tank and adjusted conditioner for full. Ground operational check satisfactory. <i>[Signature]</i> Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.																				
N39WH Date 6-22-2018			Weighed Aircraft this date. Installed in POH. Results as follows. Aircraft Weighed with fuel drained, full oil, Wheels on scale as per Section 6 of P.O.H.																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Weight</th> <th>Arm</th> <th>Mom</th> </tr> </thead> <tbody> <tr> <td>Nose</td> <td style="text-align: center;">810</td> <td style="text-align: center;">47.44</td> <td style="text-align: center;">38426.4</td> </tr> <tr> <td>L Main</td> <td style="text-align: center;">2250</td> <td style="text-align: center;">172.72</td> <td style="text-align: center;">388620</td> </tr> <tr> <td>R Main</td> <td style="text-align: center;">2240</td> <td style="text-align: center;">172.72</td> <td style="text-align: center;">386892.8</td> </tr> <tr> <td></td> <td style="text-align: center; border-top: 1px solid black;">5300</td> <td></td> <td style="text-align: center; border-top: 1px solid black;">813939.2</td> </tr> </tbody> </table>					Weight	Arm	Mom	Nose	810	47.44	38426.4	L Main	2250	172.72	388620	R Main	2240	172.72	386892.8		5300		813939.2
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Above Limitations as per STC SA5193NM Micro VG System																							

Prepared by David Sahl A&P3493300

[Signature]
Fargo Aircraft Maintenance Inc.

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
TOTAL brought forward from previous page			
09-30-18	4039.8		weighed cockpit fire extinguisher, 5.8 lb ASD of D. Pell AIP 3413300
N/A			

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FLEET SUPPORT SERVICE

Work Order ID **78480**

REPAIR STATION NUMBER NE5D064N

DATE: 7/13/2018

VJ4711 HWY 59 MONROE WI. 53566

CUSTOMER: QUALITY AIRCRAFT ACCESSORIES

RTNUMBER: 2B7-29

CUST. P.O. # 015353

DESCRIPTION: FUEL PUMP

SERIAL NUMBER: 4AC 129

DISCREPANCY: DUE OVERHAUL

RECEIVING INSPECTION AND TEAR DOWN INSPECTION: INITIALS: DJ DATE: 7/18/18

O-Rings Dry, Armature worn, Brushes worn, Pressure Plate worn, Cavity worn, VANES worn.

HIDDEN DAMAGE INSPECTION: N/A INITIALS: DJ DATE: 7/18/18

CORRECTIVE ACTION:

OVERHAULED IAW PROCESS SPECIFICATION FS28-004 R27 11/1/10

MECHANIC: *David J. ...*

DATE: 7/18/18

FIX Part	FIX Description	Quantity	Replaced	
			Yes	No
2B7-29A	FUEL PUMP ARMATURE 78250	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS29513-008	O-RING 4Q15	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS29513-015	O-RING 1Q13	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS29513-026	O-RING 4Q12	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS29513-035	O-RING 3Q17	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MS29513-036	O-RING 1Q16	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PLATING	PLATING, FUEL PUMP CYLINDERS 020518	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS28-12	BEARING	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS28-15A-2	VANE FUEL PUMP 010917	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS28-16L	BRUSH 070915	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MISC	MISCELLANEOUS HARDWARE	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS28-18E	PRESSURE PLATE, FUEL PUMP 011614	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS28-3	CAVITY, FUEL PUMP 010517	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS1000129	BAND, PROTECTIVE 061215	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS28-14C	BRUSH BLOCK	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RFS28-15C	ROTOR	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RFS1000122	SOLENOID	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS29513-021	O-RING 3Q15	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RFS1000142	TERMINAL ASSEMBLY	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>

THIS COMPONENT IDENTIFIED ABOVE WAS REPAIRED/OVERHAULED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND WAS FOUND AIR-WORTHY FOR RETURN TO SERVICE.

INSPECTOR: *David ...*

DATE: 18 JUL 2018

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			TOTAL brought forward from previous page

N39WH
Cessna 421C
Serial No. 421C-0070
Date 12-27-2018

Weighed Aircraft this date. Installed in POH. Results as follows.

Aircraft Weighed with fuel drained, full oil, Wheels on scale as per Section 6 of P.O.H.

	Weight	Arm	Mom
Nose	819	47.44	38853.36
L Main	2226	172.72	384474.7
R Main	2240	172.72	386892.8
	<u>5285</u>		<u>810220.9</u>

Empty Weight 5285.00
Empty weight C.G. 153.31
Max Ramp weight 7629
Max Take off weight 7579
Max Landing weight 7200

Above Limitations as per STC SA5193NM Micro VG System
Scale AWS 211 Cal date due 12-31-2018
Prepared by David Sahl A&P3493300

Fargo Aircraft Maintenance Inc.

N39WH
Date 02/22/2019
Hobbs 4079.2

- 1- Installed new L/H main tire tube P/N 092-344-0 / 6.50X10.
- 2- Serviced tire to proper pressure.

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

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N39WH *NOTE Items #4 and #5 corrected from original dated same date.

- Date 02-07-2020
Hobbs 4165.6 AFTT 4165.6 Heater Hobb 1950.9
- 1- C/W AD 07-05-15 Starter adaptor part 2 Back lash insp. R&L engine.
 - 2- AD 2000-01-16 C/W par (b) Visual, par (c) tail pipe, par (e) pressure check.
 - 3- Weighed and inspected fire extinguisher.
 - *4- C/W AD 2016-17-08 Elevator trim bolts. Inspect Par (2)
 - *5-AD 84-26-02 paper filter Not due. Due at 4574.5 Hobbs.
 - 6-ELT tested and inspected as per FAR 91.207 d. Battery due Nov 2020
 - 7-Swung gear leak & ops check ok.
serviced reservoir full.
 - 8-Eng. fire bottles due Aug 2020 no action taken at this time.
 - 9-Landing gear hoses due July 2020. No action taken at this time
 - 10-Repositioned and secured. heater air intake hose on air inlet pipe.
- I certify that this aircraft was inspected as per an Annual inspection and was determined to be in airworthy condition.

David Sahl/A&P 3493300 IA
David Sahl
Fargo Aircraft Maintenance Inc.

Badger haltron 1 Model 2.5HB-2
HP 3493300

N39WH
Date 08/14/2019
Hobbs 4135.1

- 1- Repaired L/H aft facing seat armrest using .040 aluminum. Ops check good.

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

N39WH
Date 09/05/2019
Hobbs 4139.6

- 1- Installed new L/H main tire and tube P/N 6.50-10. S/N 53022096.

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

N39WH
Date 01/15/2020
Hobbs 4165.6

- 1- Repaired wiring at center wire lug for R/H propeller de-ice. Operational check satisfactory.

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

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N39WH

DATE Date 02-07-2020

Hobbs 4165.6 AFTT 4165.6 Header Hobbs 1950.9

- 1- C/W AD07-05-15 Starter adaptor part 2 Back lash insp. R&L engine.
- 2- AD 2000-01-16 C/W par (b) Visual, par (c) tail pipe, par (e) pressure check.
- 3- Weighed and inspected fire Extinguisher.
- 4- C/W AD 2016-17-08 Elevator trim bolts.
- 5- AD 84-26-02 paper filter Not due. Due at 4096.4 Hobbs.
- 6- ELT tested and inspected as per FAR 91.207 d. Battery due Nov 2020
- 7- Swung gear leak & ops check ok. serviced reservoir full.
- 8- Eng. fire bottles due Aug 2020 no action taken at this time.
- 9- Landing gear hoses due July 2020. No action taken at this time
- 10- Repositioned and secured. heater air intake hose on air inlet pipe.

I certify that this aircraft was inspected as per an Annual inspection and was determined to be in airworthy condition.

David Sahl A&P 3493300 IA

Fargo Aircraft Maintenance Inc.

MOORHEAD AVIATION SERVICES
 3329 70TH ST SW, GLYNDON MN 56547 218-443-0271
 Work Order No. 1349

N39WH DATE: 12/23/19 HOBBS: 4152.9

Removed KT76C Transponder. Installed and tested Garmin GTX335 ADS-B Compliant Transponder, P/N 011-03300-00, S/N 3EE021167 in Accordance With Garmin GTX Series Installation Manual, Garmin Doc. No. 190-00734-10 Rev. 13 and STC No. SA01714WI. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227. See FAA Form 337 dated this date for further details.

I certify that the aircraft, airframe, or appliance listed above was inspected, repaired, or altered in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed.

Ryan Paulson
 CRS# 673R080D

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DATE

N39WH

Date 07-23-2020

Hobbs 4187.2

- 1- Installed Hoses Landing gear. P/N 111504-6S0100 & P/N 111502-6S0104. On each main gear. Installed hoses Nose Gear 111417-4S0090, 111417-4S0104. See Boeing Order # 1005951709
- 2- Cycled landing gear operation ok, leak check ok. Serviced reservoir with 5606 to full.
- 3- Installed Hydro tested Fire Bottles P/N 30111102 R&L positions with new Squibs. Bottle S/N R1125 on right pos. S/N R8665 on left pos. See Aerospace Turbine Rotables WO#157267 Right pos. S/N R865 Left Pos.

David Sahl A&P 3493300

Fargo Aircraft Maintenance

N39WH

Date 09/29/2020

Hobbs 4193.3

- 1- Service L/H main strut with nitrogen.
- 2- Installed new o-rings in L/H brake caliper and bled brake system using 5606A hydraulic fluid.
- 3- Weighed cabin fire extinguisher. 5 lbs. 6 oz.

Kevin Pattengale A&P 3132791 IA
 Fargo Aircraft Maintenance Inc.

N39WH

Date 09/30/2020

Hobbs 4195.9

- 1- Removed R/H voltage regulator P/N R1224B S/N 140653 and installed new regulator P/N R1224 S/N H-U081762. Adjusted voltage to 27.5 in accordance with Cessna 421 series maintenance manual.
- 2- Serviced L/H main gear strut with 5606A hydraulic fluid and nitrogen in accordance with Cessna 421C series maintenance manual.

Kevin Pattengale A&P 3132791 IA
 Fargo Aircraft Maintenance Inc.

N39WH

Date 10-29-2020

Hobbs

- 1- Replaced right voltage regulator (P/N R1224B, S/N HU091100) and left voltage regulator (P/N R1224B S/N H-U091087) with new; adjusted as per Cessna 421 Service Manual and Hartzell Plane power Installation instructions.
- 2- Replaced right alternator brush block with new ALU3045BS.
- 3- Adjusted cabin temp controller to 230 degrees check fuel pressure at heater found to be 7.5 psi to 8 psi. Work done as per C&D Installation instructions. IN14078-1. Ran heater ops check ok.

David Sahl A&P 3493300

Fargo Aircraft Maintenance Inc.

MOORHEAD AVIATION SERVICES

3329 70TH ST SW, GLYNDON MN 56547 218-443-0271

Work Order No. 1458

DATE: 11/24/2020

HOBBS: 4209.5

N39WH

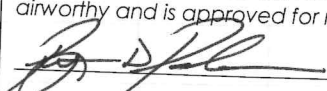
ORMED—
N PERFORMING WORK

1. Performed the altimeter, static system, transponder, and altitude reporting tests required by FAR Parts 91.411, 91.413, and 91.217 and found to be in compliance with Part 43, Appendices E and F. Performed static system leak check IAW Cessna Model 421 AMM. No defects noted. Tested to 30,000 Feet

Altimeter #1 Model Number:	43300-61288	S/N 2655
Altimeter #2 Model Number:	5932A-40101	S/N 59029
Transponder #1 Model Number:	GTX335	S/N 3EE021167
Transponder #2 Model Number:	KT76C	S/N 6074
Encoding Source Model Number:	43300-61288	S/N 2476

2. Removed EA-801A Encoding Altimeter, P/N 43300-6128, S/N 2476 and replaced with Overhauled Exchange Unit, P/N 43300-61288, S/N 2655. Ramp tested and found to be satisfactory.

I certify that the aircraft, airframe, or appliance listed above was inspected, repaired, or altered in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed.



Ryan Paulson
CRS# 673R080D

N39WH

Date 02-05-2021

Hobb 4231.5

- 1- Removed prop Gov DCFUS290D7A/T6, SN 761521 Overhauled By Maxwell Aircraft. See WO#125280 Dated 01-31-2021. Installed to engine, Ran and leak checked, ground ops ok.
- 2- Installed new prop de-ice harness P/N RA-C165013-0604 on left prop to slip ring. Ops check ok.
- 3- Note :Extension of R/H Governor overhaul time extended to Jan 31, 2021. See Letter Dated Dec 1,2020 Fargo FAA FSDO Perry Ochsner
Kevin Pattengale A&P 3132791


Fargo Aircraft Maintenance Inc.

N39WH

Date 02-19-2021

Hobb 4235.7, AFTT 6427.2 Heater Hobb 2003.41

- 1-AD 95-09-13 Fuel Tank float valve Due at 4276.4
- 2-C/W AD 00-01-16 Exhaust Inspection. C/W Par (b) (c) (e). Right Left Engine.
- 3-C/W AD 07-05-15 Starter Adapter back lash Part (2) Right Left engine.
- 4- C/W AD 2016-17-08 Elevator trim Bolt Inspect par f(2)
- 5-AD 84-26-02 paper filter replacement due at 4574 hobb.
- 6- AD 2020-16-11 Cylinder Crack N/A by P/N cylinders Right Left Engine.
- 7-AD 2018-03-03 R1 due at 12000 hr. TT.
- 8-Weighed cock pit fire Extinguisher.
- 9- C/W FAR 91.207d ELT Inspection. Battery due Dec 2022.
- 10-Installed turbo Y P/N 9910300-13, S/N 039534-001 New. Wall Colmonoy WO# P132244. Installed new waist gate gaskets 2570-1, turbo Y gasket 2570-2. And bolt kit. (L/H engine) DCS
- 11-Replaced Vacuum regulator filters Right and Left.
- 12-Cleaned and paint battery box.
- 13- Service Battery, Cap check ok.
- 14- Repaired Flow divider vent line at firewall fitting at Left Baffling by flaring end and replacing fitting P/N AN833 4D.

I certify that this aircraft was inspected as per a Annual inspection and was determined to be in airworthy condition.

David Sahl A&P 3493300 I/A


Fargo Aircraft Maintenance

N39WH

Date 12-11-2020

Hobb 4215.2

- 1- C/W Exhaust AD 2000-01-16. Par (b) Visual Right and Left Engine. New Y Collector installed on Right engine P/N 991030000-13AWL. Turbo gasket 2570-2 and waist gate gasket 2570-1 installed with slip joint bolt kit RAM 1001. Ran engine check for exhaust leaks non noted.
- 2- Installed the following seals ins Left Main strut. A2749, MS 28775 -229. Serviced with 5606 and nitrogen.
- 3- Replaced ELT Battery next due Dec 2022. C/W ELT FAR 91.207 d inspection. Ops check ok.
- 4- Installed Overhauled Starting Vibrator P/N 10-357487-242, S/N 8022 Overhaul by Aircraft Accessories Ok. WO# SO-20-2802. Ops check ok.

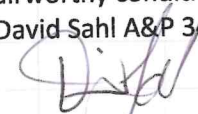
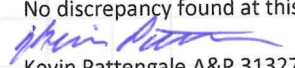
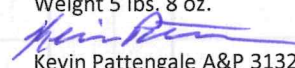
David Sahl A&P 3493300

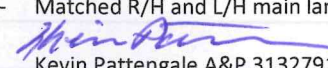
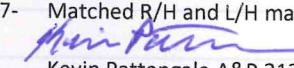
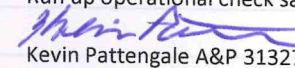

Fargo Aircraft Maintenance Inc.

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Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							
N39WH Date 06-25-2021 Hobbs 100.1 , AFTT 6527.3 ,Heater hobb 2041.21							1- C/W AD 07-05-15 Part 2 Starter adaptor back lash. 2- C/W AD 2016-17-08 par f(2) elevator trim bolt inspection. 3- C/W AD 00-01-16 par (b) Visual Exhaust inspection, (e) Pressure check exhaust. R & L engine. 4- ELT inspection due at 02-2022. Battery due at Dec 2022. 5- R/H prop sync actuator phonic block resecured and check travel. 6- Serviced emergency gear accumulator with nitrogen. 7- Serviced hydraulic reservoir. 8- Replaced Alternator out sensor P/N B-00329-2 S/N 80U41127. Right alt. 9- A check to Bi weekly 2021-13/14 10- I certify that this aircraft was inspected as per a 100hr inspection and was determined to be in airworthy condition. 11- David Sahl A&P 3493300  Fargo Aircraft Maintenance Inc.
N39WH Date 07/28/2021 Hobbs 120.0							1- AD 00-01-16 Para (b) Visual inspection of R/H and L/H exhaust systems complied with. No discrepancy found at this time.  Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.
N39WH Date 07/29/2021 Hobbs 120.0							1- Re-weight of cabin fire extinguisher C/W. No discrepancy found at this time. Weight 5 lbs, 8 oz.  Kevin Pattengale A&P 3132791 Fargo Aircraft Maintenance Inc.
PAGE TOTALS							CARRY FORWARD to Top of Next Page

	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
N39WH Date 09/10/2021 Hobbs 145.6		
1- AD 00-01-16 Para (b) Visual inspection of R/H and L/H exhaust systems. No discrepancy found at this time. 2- Pressure checked L/H waste gate. Flushed and lubed. Installed new o-ring to oil return side. Run up leak check good. 3- Adjusted L/H turbo control 1 turn C/W. Run up operational check good. 4- Adjusted lower cabin door latching arm 1/2 turn out to get positive contact to door lock light Switch. 5- Re-connected pilots side windscreen defroster duct. 6- Serviced all tires to proper pressures. 7- Matched R/H and L/H main landing gear struts to correct heights.  Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.		
N39WH Date 09/10/2021 Hobbs 145.6		
1- AD 00-01-16 Para (b) Visual inspection of R/H and L/H exhaust systems. No discrepancy found at this time. 2- Pressure checked L/H waste gate. Flushed and lubed. Installed new o-ring to oil return side. Run up leak check good. 3- Adjusted L/H turbo control 1 turn C/W. Run up operational check good. 4- Adjusted lower cabin door latching arm 1/2 turn out to get positive contact to door lock light Switch. 5- Re-connected pilots side windscreen defroster duct. 6- Serviced all tires to proper pressures. 7- Matched R/H and L/H main landing gear struts to correct heights.  Kevin Pattengale A&P 3132791 IA Fargo Aircraft Maintenance Inc.		
N39WH Airframe Date 09/27/2021 Hobbs 168.6		
1- Removed L/H alternator P/N ALV9610 S/N M0191861 and installed new alternator P/N ALV9610 S/N H-V070286. Run up operational check satisfactory.  Kevin Pattengale A&P 3132791 IAS Fargo Aircraft Maintenance Inc.		

Section 1: Airframe Log

DATE	AIR TIME	LANDINGS / CYCLES	DETAILS OF TASK
N39WH Date 10-14-2021 Hobbs 190.4, AFTT 6617.5 Heater hobb 2074.0			<p>1- C/W AD 07-05-15 Part 2 Starter adaptor back lash. R&L engine. Part 3-Removal insp. Due 238.8 hobb.</p> <p>2- C/W AD 2016-17-08 par f(2) elevator trim bolt inspection. <i>Next due 10-2022 or 300.4 Hobb</i></p> <p>3- C/W AD 00-01-16 par (b) Visual Exhaust inspection. (R & L engine. par (c)&(e) due at 02-2022)</p> <p>4- ELT inspection due at 02-2022.</p> <p>5- Installed right alt brushes ALE 1013AS ops check ok.</p> <p>6- Installed left landing gear up lock hook P/N 5141312-2. Cycled landing gear ops check ok.</p> <p>7- Installed all brake linings R&L 66-0066</p> <p>8- AD check to Bi Weekly 2021-21/22</p> <p>9- I certify that this aircraft was inspected as per a Annual inspection and was determined to be in airworthy condition.</p> <p>David Sahl A&P 3493300 IA</p> <p><i>[Signature]</i> Fargo Aircraft Maintenance Inc.</p>
N39WH Date 11-08-2021 Hobbs 217.5			<p>1-C/W AD2000-01-16 par (b) visual exhaust inspection no defects noted. <i>Next due 267.5</i></p> <p>2- Resecured fitting and hose on Left vacuum pump pressure out port. Check deice boots for operation check ok.</p> <p>David Sahl A&P 3493300</p> <p><i>[Signature]</i> Fargo Aircraft Maintenance Inc.</p>
N39WH Date 11-19-2021 Hobb 229.2			<p>1- C/W AD 07-05-15 and MSB 94-4H Part 3. No defects noted on Left engine Starter adaptor. Installed as per GTSIO 520 Overhaul Manual and MSB94-4H.- C/W AD 07-05-15 and MSB 94-4H Part 3. On Right engine. Spalling noted replaced Starter adaptor. New P/N EQ6642 S/N NA. Textron Aviation WO#456841 Installed as per GTSIO 520 Overhaul Manual and MSB94-4H. Part 2 due 329.2, Part 3 Due 629.3 Hobbs</p> <p>2- Ran engines ops check and leak check OK</p> <p>David Sahl A&P 3493300</p> <p><i>[Signature]</i> Fargo Aircraft Maintenance Inc.</p>

N36WH
Date 12-09-2021
Hobb 237.6
1- C/W AD 2000-01-16 Par (b) Visual Exhaust inspection Right and Left engine Next due +50hr Hobb 287.6 and Par (d) Engine beam inspection on Right and Left Engine no defects noted. Next due +500hr Hobb 737.6.
David Sahl A&P 3493300

[Signature]
Fargo Aircraft Maintenance Inc.

ICE:
or
ACA

N39WH
Date 01-03-2022
Hobb 242

Weighed aircraft no usable fuel and full oil. Weighed on wheels scale type AWI 211 Cal. Due Nov 2022.

	Weight	Arm	Mom
Nose	818	47.44	38805.92
L Main	2203	172.72	380502.2
R Main	2216	172.72	382747.5
	<u>5237</u>		<u>802055.6</u>

Empty Weight 5237.00
Empty weight C.G. 153.15

David sahl A&P 3493300

[Signature]
Fargo Aircraft Maintenance Inc.

N39WH Airframe
Date 01/12/2022
Hobbs 00246.3

1- AD 2000-01-16 Para (b) visual inspection of R/H and L/H exhaust systems complied with. No discrepancy found at this time. Next due at Hobbs 00296.3

2- Repaired wiring for R/H engine fire detect system L/H side of nacelle.

[Signature]
Kevin Pattengale A&P 3132791
Fargo Aircraft Maintenance Inc.

02-01-2022
Hobb 254.7 1- Weighed fire ex. (cockpit) 5.8 lb

[Signature]
David Sahl A&P 3493300

Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							

N39WH Airframe
Date 02/15/2022
Hobbs 00254.6

1- Removed L/H fuel boost pump model # 2B7-29FB S/N 6AU-27 and installed overhauled pump model # 2B7-29 S/N 4AC 129. Overhaul of pump performed by Fleet Support Services Inc. See W/O # 015353 Dated 18 July 2018 for detailed overhaul information. Operational and leak check good.

Kevin Pattengale
Kevin Pattengale A&P 3132791
Fargo Aircraft Maintenance Inc.

N39WH
Date 03-01-2022
Hobb 259.1 *Heater Hobb 2115.1*

1- Overhauled Left Gov. P/N DCFS290D7/T6, S/N 780163. Overhaul by Maxwell WO#126274. Installed to engine ops check and leak check ok.
2-C/W AD2000-01-16 Tail pipe inspection Par (c) Right and Left engine. Next due 03-01-2023
NOTE : Par (b) due 296.3, Par (c) due 3-2023, Par (e) Pleasure check due 6-2022.
3-C/W ELT inspection FAR 91.207 (d) Battery due Dec 2022.
4-Replaced Switch P/N 11SM3T in Heater Thermostat in ducting.
5- Replaced rod end bearing 3MM at Right Governor arm. Ops check ok.

David Sahl
David Sahl
Fargo Aircraft Maintenance Inc.

N39WH Airframe
Date 05-20-2022
Hobbs 282.3 TTAF 6709.4

1-Removed Left engine GTSIO 520 L, S/N 276362-R. Installed RAM Overhaul engine Continental GTSIO-520-L, S/N 604268. RAM Project file #10132. Installed As per Cessna 421C Service Manual. Rigged and adjusted as per Chapter 7 & 8. Installed New Lord Engine Mounts J-9613-54.
Serviced with 20W50 X/C Mineral Oil. Installed New oil filter and RAM intake AM106735EA paper filter.
2-RAM 337 STC#SE8338SW-D, Turbo Supply line Executed this Date.
3- Installed Prop Same McCauley 3FF323C501C, S/n 850695.
4 Installed AWI NEW Exhaust Left Stack P/N A9910295-15. Right Stacks P/N A9910205-16 and slip joints R&L P/N A9910296-7. Invoice Ref. 3122224 Dated 4-18-2022.
Installed slip joint hardware Kit. 1001-6.
5- Replaced Right Tach gen P/N 22A667, S/N 14425 Overhaul by Accessories Inc. WO# 93221R.
6- Installed new Alternator Brushes ALE 1013AS. *R/H ENGINE ALT.*
7-Ran engine ops check ok No leaks noted.
8- **AD 84-26-02** Paper filter due 782.3 Hobb. **AD 2000-01-16** Visual Exhaust. Par b next due 332.5 Hobb.

David Sahl A&P 3493300
David Sahl
Fargo Aircraft Maintenance Inc.

N39WH
Date 05-20-2022
Hobb 282.3, AFTT 6709.4, Heater Hobb 2131.7

1- C/W AD 84-26-02 Left engine Paper filter, Next due 782.3. Right filter due at hobb 338.8.
2- C/W AD2000-01-16 Exhaust Visual Inspection R&L engine Par (b), Due 332.3 hobb. Left Engine Par (d) Left Beam inspection Cleaned, inspected and spot primed before engine install. Next due 782.3.
3- C/W AD 07-05-15 Left starter adaptor Insp on Left engine New. Part 2 due Annual/382.3 hobbs or part 3 at Hobb 682.3.
4- C/W AD 2016-17-08 par f (2) elevator trim bolt inspection. Next due 382.3 hobb or annual.
5- ELT Battery due Dec 2022.
6- Replaced Vacuum reg filter R&L
7- Service Hydraulic reservoir with 5606.
8- Replaced left prop de ice brushes RAB40189.
9- Right Alt brushes ALE-1013AS. *Replaced.*
10- Replaced Right Tach gen P/N 22A667 S/N 14425 Overhaul By aircraft accessories Inc WO# 93221R.
11- Replaced Left Pneumatic Pressure line in Left engine. ICE boot check ok.

I certify that this airframe was inspected as per a 100Hr inspection and was determined to be in airworthy condition.
David Sahl A&P 3493300
David Sahl
Fargo Aircraft Maintenance Inc.

DS
Note: AD checked as of Biweekly 2022-11-12

N39WH
Date 06-07-2022
Hobb 285.0

1- C/W AD2000-01-16 Exhaust pressure check Left engine par (e)
2- C/W AD2000-01-16 Exhaust pressure check Right engine par (e)

David Sahl A&P 3493300
David Sahl

N39WH
Date 06/24/2022
Hobbs 297.7

1- Installed new L/H turbine inlet temperature probe P/N P-110. Operational check good.
2- Installed serviceable Avidyne Flight Max 750 P/N 5RR-MFC-4XX-0 S/N 1395.

Kevin Pattengale
Kevin Pattengale A&P 3132791
Fargo Aircraft Maintenance Inc.

N39WH
Date 08/11/2023
Hobbs 458.8

- 1- Removed L/H main tire P/N 6.50X10-1 S/N 53022096 and installed new tire and tube P/N 6.50X10-1 S/N 31980302 and serviced with nitrogen to specs.

Kevin Pattengale
Kevin Pattengale A&P 3132791
Fargo Aircraft Maintenance Inc.

N39WH
Date 8-31-2023
Hobbs 475.4

- 1-C/W AD2000-01-16 Exhaust visual inspection par (b) Next due 525.4 Hobb.
- 2-C/W AD 2000-01-16 Back lash starter drive next due
- 3-C/W AD 2016-17-08 Elevator bolt inspect par f(2)
- 4-Replaced Pilot Push to talk button.
- 5-AD 89-26-02 paper filter due R/H 868.5, L/H filter due 782.3.

David sahl A&P 3493300.

David Sahl

Fargo Aircraft Maintenance inc.

wo: WO_1379		Airframe - page 1 of 1	
Gibson Aviation Services - 1400 Indianhead Dr. East - Menomonie, WI 54751 - 7152311836			
N39WH TACH: 482.5	CESSNA, 421C, S/N: 421C0070	September 07, 2023	
Troubleshoot L/H brake. Found Clevis pin missing from Pilot L/H brake pedal. Reinstalled clevis pin and safetied with cotter pin. Ops check satisfactory.			
With respect to the work performed, this airframe is approved for return to service.			
Jacob Kuhn A&P 3761792 <i>Jacob Kuhn</i>			

N39WH Cessna 421C S/N 421C-0070
Date 12/07/2023
Hobbs 493.8 TTAF 6920.9
Heater Hobbs 2185.8

Pg 1 of 2 *MP*

- 1- Annual inspection complied with in accordance with Cessna 421C series maintenance manual and FAR 43 Appendix D scope and detail.
- 2- AD 84-26-02 Paper engine air filter replacement due at hobbs time R/H 868.5 L/H 782.3.
- 3- AD 2000-01-16 inspection complied with part (b) (c) and (e) on R/H and L/H exhaust systems. Installed new L/H system exhaust by pass valve elbow P/N A9910. Next due Part (b) at hobbs 543.8 and part (c) and (e) due at next annual 12/07/2024.
- 4- AD 2016-17-08 Para (f)2 visual inspection of elevator trim bolt and hardware complied with. No discrepancy found at this time. Next due at hobbs 593.8.
- 5- AD 07/05-15 R/H and L/H starter back lash part 2 complied with. Both R/H and L/H are .03. Next due at hobbs 593.8 or annual whichever occurs first.
- 6- AD 2018-03-03 R1 due at 12000 aircraft frame time.
- 7- AD 2023-09-09 R/H and L/H Exhaust v-band multi segment clamp inspection complied with. No discrepancy found at this time. Next inspection due at hobbs 593.8 or next annual.
- 8- AD 2023-05-16 R/H and L/H engines Crankshaft counter weight retainers N/A due to engines assembled by RAM aircraft limited partnership.
- 9- R/H engine magnetos R/H and L/H sent out to Horizon Aircraft Engine Services Inc. for 500 hr inspection. R/H mag Model S6LN-1205 P/N BL-349260-7. L/H mag Model S6LN-1201 P/N 10-349220-4 S/N E129903FR. See Horizon Work order 35863 dated 11/29/2023 for detailed inspection information. Re-installed magnetos and timed to engine. Run up operational and leak check good.
- 10- Installed new R/H and L/H hydraulic filters P/N 572760. Leak check good.
- 11- Installed new R/H alternator noise suppressor P/N 11-08060.

---Continued---

---Continued---

Pg 2 of 2 *MP*

- 12- Installed new R/H and L/H vacuum regulator valve filter P/N B3-5-1.
- 13- FAR 91.207(d) ELT inspection complied with. No discrepancy found at this time. Battery due replacement May 2029.
- 14- Removed and inspected R/H aileron for excessive bearing and pin wear. Bearing and pin found to be in serviceable condition. Re-installed and re-torqued all nuts and screws. All work performed in accordance with Cessna 421C maintenance manual. CH 5-10.
- 15- Removed L/H main landing gear strut assembly and installed TC400MS-1 seal kit. Serviced with 5606A hydraulic fluid and nitrogen to proper limits.
- 16- Installed new R/H and L/H main landing gear brake discs P/N 164-06406, linings P/N RA66-66 and shims 068-03100. Bled brakes using 5606A hydraulic fluid.
- 17- Installed new nose tire P/N 606C61B1 6.00 X 6 6ply S/N 30215316 and tube. Balanced and serviced to proper pressure.
- 18- Installed new Sceet -10 tubing at R/H wing heat exchanger and new o-ring P/N 2-0385418-6 at dump valve.
- 19- Inspected aircraft heater and fans for proper operation. Cleaned fuel nozzle and spark plug. Operational and leak check good.
- 20- Repaired R/H cabin forward facing middle seat arm rest using rivets.
- 21- Installed new altimeter alert amber light.
- 22- Performed multiple landing gear swings including emergency extensions. Operational check good.
- 23- Performed battery capacity check. Battery passed at 106%
- 24- Checked all AD's through this date..

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

Kevin Pattengale
Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

N39WH

Date 08-09-2024

Hobb 517.6 TTAF 6944.7.

Cessna 421C, S/N 421C-0070

1-Removed Right Engine GTSIO-520 L, S/N808411-R. TTE 2717.6 TSOH 1679.2

David Sahl A&P 3493300

David Sahl

Fargo Aircraft Maintenance Inc

N39WH

Date 08-09-2024

Hobb 517.6 TSOH 0.0 TTSN 3281

Right Engine S/N 608667

- 1-Installed RAM Overhauled engine GTSIO-520-L with Ram Hose Kit and engine Mounts Kit. Engine includes standard accessories see details under RAM file project # 10839. Original vacuum pump and hydraulic pumps installed, C/W AD 2000-01-16 Par (b) Visual & par(d) Beam Inspection, replaced loose 6 Rivets as necessary same size & type. Inspected & cleaned beam, Painted bare spots with Epoxy paint. Replaced the following Exhaust Left Stack assembly K9910295-15, R&L Slip joints Right and Left A9910296-7, Tail Pipe 9910300-16. Original prop McCauley 3FF32C501-A/G-90UMB-0, S/N 8704444. Original Gov McCauley Gov DCFUS290D7A/T6, S/N 761521. Installed All engine fuel and oil lines replaced with RAM Hose kit right engine fire wall forward. Hoses not included with RAM hoses, Fuel line to Shaden FF. 124J001-6CR-0062, 124J001-6CR-00173 and Airframe hydraulic hose 124J002-10CR0251 0251. Aero Aviation INV# H52883-1. Serviced with 20W50 X/C Mineral oil. Pre-oiled. Ran and adjusted engine Fuel pressure Idle RPM, Mixture and MP as per Cessna 421C Serve Manual. Exhaust items inspected and re installed. -Y collector P/N 991030000-13, 538 hr.'s .Bypass elbow P/N A9910 Time Since New 23.9. R/H Stack 9910295-16 TSN 688.7 hr. Ran aircraft ops check OK. Leak Check OK.

David Sahl A&P 3493300


David Sahl

Fargo Aircraft Maintenance Inc.

N39WH
Date 10-05-2024
Hobb 535.8

1- C/W AD 2000-01-16 par (b) Visual exhaust Right and Left engine. No defects noted.

David Sahl A&P 3493300


Fargo Aircraft Maintenance Inc.

MOORHEAD AVIATION SERVICES
3329 70TH ST SW, GLYNDON MN 56547 218-443-0271

Work Order No. 1997

N39WH

DATE: 1/17/2025

HOBBS: 557.8

1. Performed the altimeter, static system, transponder, and altitude reporting tests required by FAR Parts 91.411, 91.413, and 91.217 and found to be in compliance with Part 43, Appendices E and F. Performed static system leak check IAW Cessna Model 421 AMM. No defects noted. Tested to 30,000 Feet

Altimeter #1 Model Number:	43300-61288	S/N 1629
Altimeter #2 Model Number:	5932A-40101	S/N 59029
Transponder #1 Model Number:	GTX335	S/N 3EE021167
Transponder #2 Model Number:	KT76C	S/N 6074
Encoding Source Model Number	43300-61288	S/N 1629

I certify that the aircraft, airframe, or appliance listed above was inspected, repaired, or altered in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed.


Ryan Paulson
CRS# 673R080D

N39WH
Date 01-17-2025
Hobb 557.8

1- Inspected aircraft and was found to be ok for safe ferry flight from KJKJ to KFAR .


David Sahl A&P 3493300


Fargo Aircraft Maintenance Inc.

N39WH Cessna 421C S/N 0070
Date 02/04/2025
Hobbs 557.9 TTAF 6985.0

- 1- Annual inspection complied with in accordance with Cessna 421 series maintenance manual and FAR 43 appendix D scope and detail.
- 2- AD 2000-01-16 R/H and L/H exhaust inspection complied with. Para (b),(c),(e) and (d). Para (b) next due at hobbs 607.9. Para (c), and (e) due at next annual. Para (d) beam inspection due at hobbs 1057.9. Para (f) N/A. Para (g) due at engine overhauls.
Para (e) pressure check of exhaust found a cracked R/H engine O/B exhaust stack. Installed new stack assembly P/N A9910295-16
- 3- AD 2007-05-2015 R/H and L/H engine starter adapter back lash inspection complied with. Part 2 next due at hobbs 657.9 and 400 hr. inspection due at hobbs 957.9.
- 4- AD 84-26-02 Engine paper air filters L/H due at hobbs 782.3 and R/H due at hobbs 868.5.
- 5- AD 95-04-13 Fuel float valve inspections due at hobbs 640.7
- 6- AD 2016-17-08 Elevator trim bolt inspection Para F(2) visual inspection complied with. No discrepancy found at this time. Next due at hobbs 657.9 or annual whichever occurs first.
- 7- AD 2018-03-03 R1 wing carry through spar inspection due at 12000 hrs. total time.
- 8- FAR 91.207(d) ELT inspection complied with. No discrepancy found at this time. Battery due replacement May 2029. Artex 345 406 S/N 317-14674.
- 9- Re-weighed cockpit fire extinguisher. 6.0 lbs.
- 10- Removed landing gear emergency extension pneumatic blow down bottle P/N 9910154-2, 900297-3 for hydrostatic testing. Testing performed by Aerospace Turbine Rotables Inc. See W/O # WO211252 dated 31/Jan/2025 for detailed testing information. Re-installed bottle and serviced with nitrogen. Leak check good.
- 11- Performed landing gear swings including emergency extension.
- 12- Installed new R/H and L/H vacuum regulator valve filters P/N B3-5-1.
- 13- Installed new R/H and L/H fuel cap o-rings P/N MS29513-338.
- 14- Installed one new propeller de-ice boot harness P/N 4E2071-3
- 15- Repaired L/H cabin table.
- 16- Cleaned L/H landing gear down light switch. Operational check good.
- 17- Installed new shraider valve in oxygen bottle regulator and serviced with oxygen. Leak check good.
- 18- Performed ground run. Operational and leak check good.
- 19- Checked all AD's through this date.

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


Kevin Pattengale A&P 3132791 IA
Fargo Aircraft Maintenance Inc.

N39WH

Date 02-17-2025

Hobb 558.6

- 1- Installed reservoir sight gauge. Serviced revivor. Swung gear several times. Ops check ok.

David Sahl A&P 3493300

Fargo Aircraft Maintenance Inc.

39WH

ate 07-23-2025

obb 624.6

- 1- Replaced Left Pito tube P/N AN5812-1, S/N AS04229104. pressure check ok.
- 2- Installed Left Main Gear Strut kit TC400MS-1 and Retainer ring MS28774-330. Serviced with 5606 and Nitrogen.
- 3- Replaced Torque Link Bushing 5141008-1 on top and bottom torque link of left Main Landing gear. Replaced inner bushing P/N 5041013-3.
- 4- Replaced RPM Tach Plug at Tach Gen. P/N MS3106E10SL-35. Ops check ok.

David Sahl A&P 3493300

Fargo Aircraft Maintenance Inc.

- 3- Replaced R/H Landing light motor TR-8052 and worm mesh. Serviced and checked. Ops check ok.

David Sahl A&P 3493300

Fargo Aircraft Maintenance Inc.

N39WH Cessna 421C S/N 0070

Date 04/21/2025

Hobbs 576.5

- 1- Installed new seals and o-rings in L/H main gear strut.
- 2- Serviced strut with nitrogen IAW Cessna 421C service manual 4-10. Leak check good.

Kevin Pattengale A&P 3132791

Fargo Aircraft Maintenance Inc.

N39WH

Date 05/29/2025

Hobbs 609.2

- 1- Serviced L/H main strut with MIL-5056 hydraulic fluid and nitrogen IAW aircraft service manual. Ops check good. Leak check good.
- 2- Complied with AD 2000-01-16 exhaust visual inspection paragraph B. no discrepancies found.

Adam Frisk A&P 4966403

Fargo Aircraft Maintenance Inc.

N39WH

Date 10-02-2025

Hobb 641.5

1-Replaced Left Main Strut with Serviceable, P/N 5141101-3. Removed from N421EE Aircraft S/N 421C0692, TT 6551.2. Transfer Torque links and Brake torque plate Shimmed trunnion at pivot with P/N 0841004-3 shims as required. Installed new Strut seal kit. Performed several Landing gear swings ops check ok.

2- Installed Overhauled Hydraulic pump P/N 241994RAA.S/N2373. On Left engine. Overhaul by Aircraft Accessories WO# 091025.

Cleaned Left Hydraulic check valve and pressure switch. Installed new hydraulic filter serviced revivor. Ops check leak check ok.

3-Left dump valve seal deteriorated replaced o-ring MS28775-226.

4- Hydro check 02 bottle P/N C166001-0813, S/N 77933S Aero space turbine Rotables WO# 0218145. Next Due 09-2030.

5- Fire bottles P/N 30111102 hydro L & R S/NR1125 and S/N R865 See Areospace Turbine Rotables WO# 218150 & W/O#218151. New squibs installed.

4-C/W AD 95-09-13 fuel float valve check. Next due hobb 1241.

5-C/W AD 2000-01-16 par (b) visual, (C) pressure check (e) Tail pipe insp. On Right and Left engine.

6-C/W AD 07-05-15 starter back lash Part 2 Right and left engine.

7-AD 2016-17-08 Elevator trim bolt. Visual Installed new bolt as per MEB-21-02. Next due 741.5.

David Sahl A&P 3493300

Fargo Aircraft Maintenance

Fire Bottle Cartridge P/N AE13083-5, 10 yr Due July 2035.
Fire Bottle hydro due 09-2030

FARGO
JET CENTER LLC

3802 20th St. North, Fargo, North Dakota 58102 U.S.A. Phone: 701-373-8840 Fax: 701-280-0300

Date: 20 October 2025

AIRCRAFT LOGBOOK INSERT

N NUMBER: N39WH

MAKE: CESSNA MODEL: 421C S/N: 421C0070 Hobbs: 644.8

Maintenance Items Addressed at this Time:

- 1) Removed RH MLG Tire, P/N: 650C06-3 S/N: 2090048, And Tube. Installed New Tire, P/N: 650C06-3 S/N: 93100046, And new tube, P/N: 092-344-0, IAW Cessna 421C Service Manual 4-41.
- 2) Installed new terminal end on wire C4A18 at flap position handle IAW Cessna 421C Service Manual 13-60.

-END-

MAINTENANCE RELEASE: I certify that the aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found airworthy and is approved for return to service for the work performed. Pertinent details of the repair are on file at the agency under Work Order No. 030452 Date: 20 October 2025.

Signature of authorized Person

Benjamin Thornton

For FAA CERTIFIED REPAIR STATION No. CTUR016D