

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
11-27-17	6207.9		6207.9	INSPECTED BOTH ENGINES VISUALLY PER AD 2004-01-14 para (b) - next ERS due @ 6257.9 / 12-2017



10001 American Drive
Amarillo, Texas
79111

Date: 1/5/2017 Aircraft: N421NS Make: Cessna Model: 421C SN: 421C0874 Hobbs: 6170.4
WO: TDW1304

CW AD 2004-21-05 per para (f) (1), by performing a pressure decay test on Janitrol B4050 combustion Heater with no discrepancies noted at this time. Tested and adjusted air pressure switch for proper actuation ref C&D Assoc. decay tester PN 70100 Operational Instructions.
Next due 31 January 2019.

This aircraft is approved for return to service in regards to the work performed.

Mike Mooney

English Field Aviation

01-18	6237.4		6237.4	CW EFT Battery change (due Feb 2020)
				EFT DLM - SN 118104 Replaced with D-M. 6 SN 40143 - INSPECTED
				EFT FUNCTION TESTED PER FAR 91.207(d) - NO DEFECTS NOTED - TEST
				RECURRING due in June 2019 - Brake linings Replaced +
				shimmed (048-03100) both sides - wheel bags inspect & packed
				gear RETRACTION PERFORMED (5 fault free retraction's @ 2000 PSI)
				EXTENSION - Gear Warning horn functions properly Per Handbook
				POSITION & Flap configuration - serviced & cleared Air S. Heats Per
				AD 84-26-02 - Due Replacement @ 6384 HR - INSPECTED ECH SYSTEMS
				Per AD 2004-01-14 para (b) - due @ 4257 / 7-2018 para (c) + (d) - next
				due June 2019 - serviced Brake master cylinders & hydraulic line
				Reservoir - checked all lights, cables, pulleys, TANK ARRESTORS
				SUB-TOTALS this page (0.000)
				TOTALS - Carry forward to next page

Date: 11/26/14; Aircraft: Cessna 421; Hobbs: 6046.4

Reg. No: N421NS; Model No.: 421; S/N: 421C-0874

DATE: 11/26/14 SIGNED

English Field Aviation CRS No.: ~~19WR939K~~

Tradewind Airport

AND

Rick Husband International Airport

4025 Tradewind Street

10001 American Drive

Amarillo, Texas 79118

Amarillo Texas 79111

12-7-16		6155.	changed oil & filter - visually insp exh PER AD 2000-01-16 para (b)
	TIME	TEMP	SOH.
2-1-17	6170.4	1186.9	151.0
oil changed (A/shell 100 plus) & oil filter - Air filter serviced. Mag Timing ok'd, Plug heads head tested - SPARK Plugs cleaned, gapped, tested, & rotated - compression ck'd #1-76/80, #2-78/80, #3-78/80, #4-76/80, #5-76/80, #6-76/80 - c/w AD 2001-04-16 para (b), (c), & (e) - c/w AD 2007-05-16 Pt 1K2 Per Backlash ck. Fuel Nozzles inspected & ok'd Manifold Reference Seals. Engine washed down I certify this engine (S/N 292352-12) was inspected in accordance with Annual inspection and was deemed airworthy at this time -			
			50K-289.9 hr
11-27-17	6202.9	1189.9	2245.4
ok Exhaust - oil changed A/shell 100w plus - CH 4811-1 oil filter change			
	TIME	TEMP	SOH.
6-24-18	6227.4	4243.0	208.0
oil changed (A/shell 100w Plus) CH 4811-1 oil filter changed, Mag Timing ok'd - Fuel Nozzles cleaned & Resealed. spark plugs cleaned, gapped, tested & rotated - Air filter serviced, c/w AD 2000-01-16 para (b), (c) & (e) - ok & Starter Adapter Backlash per Part 2 (west due 6227.4 hr (cont) Part 3 due 6419 hr.			
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LUBBOCK AERO

6304 N. Cedar Ave., Lubbock, TX 79403

Date: 08-21-2012

N#: 421NS

Make: McCauley

Model: 3FF32C501

S/N: 800841

Hobbs: 6019.4

P TT: 6019.4

SMOH: 312.8

157.5

C/W left propeller 100-hour inspection IAW FAR 43 appendix D.

Removed propeller and reinstalled after engine overhaul.

C/W prop deice boot inspection.

I certify that this propeller has been inspected IAW an annual inspection and was determined to be in airworthy condition.

Gene Seitz A

LUBBOCK AERO

6304 N. Cedar Ave., Lubbock, TX 79403

Date: Sept 25, 2013

N#: 421NS

Make: McCauley

Model: 3FF32C501

S/N: 800841

Hobbs: 6025.4

P TT: 6025.4

SMOH: 163.5

C/W left propeller 100-hour inspection IAW FAR 43 appendix D.

C/W prop deice boot inspection.

I certify that this propeller has been inspected IAW an annual inspection and was determined to be in airworthy condition.

Arnold Hertel A

LUBBOCK AERO

6304 N. Cedar Ave., Lubbock, TX 79403

Date: Oct 30, 2014

N#: 421NS

Make: McCauley

Model: 3FF32C501

S/N: 800841

Hobbs: 6041.6

P TT: 6041.6

SMOH: 178.7

C/W left propeller 100-hour inspection IAW FAR 43 appendix D.

C/W prop deice boot inspection. --Dressed and painted propeller blades.

I certify that this propeller has been inspected IAW an annual inspection and was determined to be in airworthy condition.

Gene Seitz

12-1-14 + Prop 6108.1 - SMOH 242.2 hr

Prop Dressed & Face Painted - De-ice Boots insp - I certify this Prop S/N 800841 was inspected IAW an ANNUAL inspection and was deemed AIRWORTHY at this time

2-1-17 6170.9 307.5 - Prop Dressed & Face Painted - De-ice Boots insp & dressed & function OK - I certify this Prop (S/N 800841) was inspected IAW an ANNUAL inspection and was deemed AIRWORTHY at this time

6-24-18 6227.4 364.5 - Prop Dressed & Painted - Sealed De-ice Boots, ckd spinner - I certify this Prop (S/N 800841) was inspected IAW an ANNUAL inspection and was deemed AIRWORTHY at this time

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LUBBOCK AERO

6304 N. Cedar Ave., Lubbock, TX 79403

Date: 08-21-2012

N#: 421NS

S/n: 800825

Hobbs: 6019.4

Make: McCauley

P TT: 6019.4

Model: 3FF32C501

SMOH: ~~212.8~~
157.5C/W right propeller 100-hour inspection IAW FAR 43 appendix D.
C/W prop deice boot inspection.

I certify that this propeller has been inspected IAW an annual inspection and was determined to be in airworthy condition.

Gene Seitz A [REDACTED]

LUBBOCK AERO

6304 N. Cedar Ave., Lubbock, TX 79403

Date: Sept 25, 2013

N#: 421NS

S/n: 800825

Hobbs: 6025.4

Make: McCauley

P TT: 6025.4

Model: 3FF32C501

SMOH: 163.5

C/W Right propeller 100-hour inspection IAW FAR 43 appendix D.
C/W prop deice boot inspection.

I certify that this propeller has been inspected IAW an annual inspection and was determined to be in airworthy condition.

Arnold Hepler AB [REDACTED]

LUBBOCK AERO

6304 N. Cedar Ave., Lubbock, TX 79403

Date: Oct 30, 2014

N#: 421NS

S/n: 800825

Hobbs: 6041.6

Make: McCauley

P TT: 6041.6

Model: 3FF32C501

SMOH: 178.7

C/W Right propeller 100-hour inspection IAW FAR 43 appendix D.
C/W prop deice boot inspection.

I certify that this propeller has been inspected IAW an annual inspection and was determined to be in airworthy condition.

Gene Seitz [REDACTED]

12-1-15 TT Prop 6160N - TTSOH 242.2 hr - Prop dressed & face painted - De-ice boots inspected & I certify this prop (S/N 800825) was inspected IAW an annual inspection and was deemed airworthy at this time

2-10-17 TT Prop 6170N - TTSOH 309.5 - Prop Inspected & Dressed & face painted - De-ice boots inspected & Dressed - FUNCTION OK - I certify this prop (S/N 800825) was inspected IAW an annual inspection and was deemed Airworthy at this time

6-24-18 TT Prop 6225.4 hr TTSOH 364.5 hr TWC 6227.4 hr - Prop inspected & dressed Painted - Sealed De-ice boots - I certify this prop (S/N 800825) was inspected IAW an annual inspection and was deemed Airworthy at this time

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TOTALS—Carry forward to next page

Invoice



P.O. Box 30549
Amarillo, Texas 79120
United States

January 31, 2019

Telephone: 806-322-1971

Fax: 806-322-1973

|||||

Bill To: Azzopardi, Charles
[REDACTED]
Amarillo, Texas 79108-6831

Invoice Number: INV19-00030
Account Code: AZZOPARDI, CHARLES
P.O. Number:
Job Number:
Invoice Date: 01/23/2019

Payment Type: On Account

Payment Terms:

Exchange Rate: 1.000000 USD

INVOICE SUMMARY FOR WORK ORDER NUMBER: TDW2000

Registration Number:

	Time & Materials	Flat Rate	Total
Labor:	[REDACTED] USD	---	[REDACTED] USD
Parts:	[REDACTED] USD	---	[REDACTED] USD
Misc Charges:	[REDACTED] USD	---	[REDACTED] USD
Total:	[REDACTED] USD	0.00 USD	[REDACTED] USD
Tax:			[REDACTED] USD
Subtotal:			[REDACTED] USD
Total:			[REDACTED] USD

COPY



P.O. Box 30549
Amarillo, Texas 79120
United States

January 31, 2019

Telephone: 806-322-1971

Fax: 806-322-1973

Bill To: Azzopardi, Charles	WO #: TDW2000	Invoice Number: INV19-00030
Item: 1. Airframe	Part/Model #: Item Serial Number: Registration Number: N421NS Aircraft Serial Number:	

Discrepancy: 1.1. THE WORK PERFORMED ON THIS AIRCRAFT IS BEING PERFORMED BY OR OVERSEEN BY THE A&P SIGNING OFF THE WORK ORDER AND LOG ENTRIES ASSOCIATED WITH THE WORK.

Complete the preliminary inspection on the Aircraft/Article. This will include completion of the Receiving Card and that the work scope requested is within your abilities as an A&P or IA

Resolution: Performed Prelim Insp for APMX

Discrepancy: 1.2. Pilots HSI erratic T/S and repair... Needs estimate for repair.

Resolution: Removed defective HSI model IG895A. Installed HSI model IG895A part no. 52D137-2331 Serial no. I-10178C overhauled by Castleberry Instruments & Avionics on work order no. W10977. Ops check good.

	Time & Materials	Flat Rate	Total
Labor:	USD	---	USD
Parts:	USD	---	USD
Misc Charges:	USD	---	USD
Total:	USD	0.00 USD	USD

Parts:

Ref. No.	Part number	Description	Quantity	Sell price	Extended
1.2 #1	52D137-2331	HSI Serial Number(s) I-10178C	1		

Miscellaneous

Ref. No.	Miscellaneous Charge	Amount
1.2 #1	Out bound freight to send core to vendor for credit	

Discrepancy: 1.3. Complete the Delivery Card and Final Inspection. This will include verifying that operational, leak and flight tests have been completed as needed and the log book entries have been completed. By signing this Final Delivery you are acknowledging that this aircraft / component is approved for return to service.

Resolution: Completed the Delivery and Final Inspection, reviewed the shop order and created log book entry.



1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: W10977	
4. Organization Name and Address:		Castleberry Instruments & Avionics 13405 IMMANUEL RD STE 1A PFLUGERVILLE, TX 78660 Ph: 512-251-5322, Fax: 512-252-7322			5. Work Order/Contract/Invoice Number: W10977	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	HORIZONTAL SITUATION INDICATOR	52D137-2331	1	I-10178C	OVERHAULED	
12. Remarks:						
Unit was OVERHAULED in accordance with Manual: CIA246 Pub: 68S304 Revision: 2 Revision Dated: 12/01/1996. Full details held on work order referenced above. Certifies work specified in Blocks 11/12 was carried out in accordance with EASA Part-145, and with respect to that work, the component is considered ready for release to service under EASA Part-145 Approval Number EASA145.6035.						
						
13a. Certifies the items identified above were manufactured in conformity to:			14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation specified in Block 12			
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data 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:		13c. Approval Authorization No.:		14b. Authorized Signature:		14c. Approval/Certificate No.:
						CIYR304X
13d. Name (Typed or Printed):		13e. Date (dd/mmm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mmm/yyyy):
				John Mounce		17/Sep/2018
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1. It is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1. Statement in Blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

Castleberry Instruments & Avionics

Work Order FAA CRS# CIYR304X

13405 Immanuel Road, Pflugerville, TX 78660 Phone: 512-251-5322 Fax: 512-252-7322

Work Order #: W10977

Customer: CASTLEBERRY INSTRUMENTS & AVIONICS

PN: 52D137-2331

Mfg: CENTURY FLIGHT

Cust PO: W10977

Descr: HORIZONTAL SITUATION INDICATC

Model: IG-895A

Qty: 1

Manual: CIA246

Date Printed: 8/21/2018

Time: 4:06:00 PM

Serial Number(s): I-10178C

Notes: OVERHAUL FOR STOCK

Task: TEARDOWN FINDINGS

WORK REQUIRED:

FAILS TO SLAVE

Task: WORK ACCOMPLISHED

WORK REQUIRED:

DISASSEMBLED TO CLEAN DRIVE TRAIN. SERVICED YOKE ASS'Y.
REASSEMBLED & CALIBRATED. POLISHED LENS & PAINTED
CASE. FUNCTION CHECKED & CERTIFIED I.A.W. MFG O/H
SPECIFICATIONS

Task: PARTS REPLACED

WORK REQUIRED:

1EA. 2N6039 TRANSISTOR PO 7115
1EA. 2N4403 TRANSISTOR PO 9682

Technician: [REDACTED]

Date: 14 SEPT 2018

FINAL INSPECTION

THE COMPONENT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT FEDERAL AVIATION AGENCY REGULATIONS AND FOUND TO BE AIRWORTHY FOR RETURN TO SERVICE.

Inspector: [REDACTED]

Date: 9/20/2018

Certificate Number: CIYR304X

NEW OH / REP / BC / Certified To: _____

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EFA WO#:	TOW 2000	Was Aircraft/Component Previously Listed on Capabilities List?:	
"N" Number:	N 421 N8	YES	OR Added today; DATE: _____
Make:	Cessna	Hobbs or Tach Time:	6264.2
Model:	421C	LDG Cycles:	
SN:	4210874	Acft TT:	
Requested Work Scope Summary:			

Who Requested the work?		And When?	
Do we have Contact Info?	YES or #: _____	Requested Completion Date:	
Receiving Card		Delivery Card	
Performed By:		Performed By:	
Pre Maintenance (MUST HOLD AN EFA LEVEL 2 AUTHORIZATION)		Post Maintenance (MUST BE COMPLETED BY AN EFA LEVEL 6 AUTHORIZED INSPECTOR)	

YES	NO		Yes	NO
☒		"DO NOT FLY" Placard Posted Before/Removed After	☒	
	☒	Check For Paint Damage/Scratches		☒
	☒	Check For Obvious Exterior Damage		☒
	☒	Check For Fluids Leaking From Aircraft		☒
☒		Check For Obvious Interior Damage	☒	
	☒	Check For Tires That Look Visibly Low		☒
	☒	Check For Broken or Cracked Lenses/Lights		☒
	☒	Check For Broken Static Wicks		☒
☒		Is there personal affects in acft (headsets, maps etc.)	☒	
☒		Is The Aircraft Clean (if NO contact our Detailer)	☒	
☒		Is the POH and/or Flight Can in the Aircraft	☒	
☒		Is the assigned serviceable parts cage empty	☒	

Notes: Carpal Drnty	Work Order Closed	
	Customer Notified Of Completion	
Signature:		Signature:
Date:	1-14-2019	Date:
Notes:		

DO NOT Leave any fields blank! If a field does not apply use N/A, if a field is unknown use UKN.

COPY



10001 American Drive
Amarillo, Texas
79111

Date: 1/21/2019 N421NS SN: 421C0874 Hobbs Reads: 6264.2

EFA WO: TDW2000

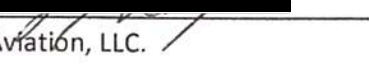
Removed defective HSI model IG895A. Installed HSI model IG895A part no. 52D137-2331 Serial no. I-10178C overhauled by Castleberry Instruments & Avionics on work order no. W10977. Ops check good.

This aircraft is approved for return to service regarding the work performed.

Gregory Langham

A&P

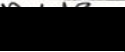
Sign: 

English Field Aviation, LLC. 

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COPY

Work Order Package Checklist (Must be included with EVERY Work Order)

Is it in the Packet		Initial Appropriate Boxes, all boxes must be addressed.
YES	N/A	
		Completed Receiving Card.
		Completed Delivery Card.
		Shop Order Signed Off in Corridor.
		Paper copies of signed log book entries.
	<i>N/A</i>	Paper copies of other official documentation (MTR's, 135 operators docs, flight log pages, etc..).
	<i>N/A</i>	Completed Inspection Checklists (I.E.: Phase inspection and annual inspection sheets).
☒ YES	NO	Parts Certification Documents (If yes, make sure they are sent out with logbook entries).
☒ YES	NO	Log Book Stickers
		Already Put into appropriate books.
		Need mailed to client with the invoice.
		Other:
		Printed & signed copy of Work Order from Corridor W/Close Date on it.
		Client Informed that aircraft is finished.
Date invoice sent to client: <u>JAN 31 2018</u> Sent By: 		
Date log entries sent to person listed above: <u>JAN 31 2018</u> Shipped Via: <u>USPS</u> Shipped By: 		
Comments/Notes: <u>ISW19-00030</u>		
		Scanned  JAN 31 2018