INSTALLED EQUIPMENT

	A AAANINGA CTURER	MODEL	
ITEM	MANUFACTURER	MODEL	SERIAL NO.
ENGINE	Hirth 3203EFI		R 904030
ENGINE	Hirth 3203EFI RPE Challenger Con Drive Warp Drive		R L
PROPELLER	warp Drive		N19209
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			70.9
PROPELLER			
ENGINE			
ENGINE			
PROPELLER			
PROPELLER			
			· ·
40			29.
		3	19 miles

		F.A.K. 43.9		
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED		ERTIFICATE NO. /RETURNED TO SERVICE
7-6-17	0	I certify this aircraft has been		
		inspected in accordance with the		r kin w
		scope and detail of Appendix 0 to	in a large	0.00
		Part 43 and has been found to be	And 2	
		in a condition for sate operation.		
		any 9cmmer 3279288 A+P		
		Andrew D Humphrey owner	<u> </u>	203
			3	
		I find this aircraft meets the requirement airworthiness certificate for the purpose amateur built aircraft, and have issurairworthiness certificate and operating dated 7-6-2017. The next inspection is described by P. Welsh, Aviation Safety In	e of operating led a special limitations ue 8-1-2018.	
		2.8.102. Vol. 2.7 11 0.101., 12 1.11.01. Outoty 1.		

		F.A.n. 73.3	
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	WORK PERFORMED/RETURNED TO SE
7-13-17		Ensine Breakin Completed.	DE OU GENTOLEM
7-14-17		Aircraft test Flown by Andy H	umphrey, All flight
		Characteristics good so far. 1 est	ed to 75 mph.
		Stall 32 mph4 hrs. flown.	

	MAINTENANCE RECORD F.A.R. 43.9			
AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	work	AGENCY & CERTIFIC PERFORMED/RETUR	ATE NO. NED TO SERVICE
Date: 8/4/18			1.34	81/1
Aircraft: N 76				
Hours: 46,1		-0	40 A PA T	
appendix D to procedures, an operation. Name: AAAA Certificate #:				
Orginatoro.				
		100		
		7		
		L A		
		Lagar.		
		MARKET TO SERVICE STREET		The state of the s

		[.A.II. 43.9	
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SE
9/1/18	46.1	Removed Nauworx ADS-B.	angem
		Installed VAVIONIES Echo ADS-B	3279822 A+P
	Pro Light		
		why that this aircraft has	
		ected on 1/10/20 IAW	
		+ detail of appendix D	
		3 or the manufactures	
		and was found to be	
		then for safe operation.	
		3279822 A+P	
	A CONTRACTOR OF THE PARTY OF TH	7	
-			
THE RESERVE OF THE PARTY OF THE			

		F.A.n. 73.9	
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SER
3430 Carro	Old Columbus Road II, Ohio 43130 e Number: 1-740-777-21	91	
	10-5-2023	Services.	
	RAME		
	TAOLI E-4. 40	TTAF: Est: 49	N Number: N767RE
Aircra	off inspected for CONI	DITION INSPECTION following scope and de	tail of FAR 43 Appendix D and
mani	facturer service manu	ial.	
	 Inspected fabric a 	nd skin for deterioration, distortion, other evid	ence of failure, and defective or
	insecure attachme	and components for improper installation, ap	parent defects, and
	2. Inspected system	and components for improper installation, ap	
	unsatisfactory ope	eral uncleanliness and loose equipment that n	night foul the controls,
	3. Inspected for gen	nd safety belts for poor condition and apparer	nt defects.
	4. Inspected seats a	s and windshields for deterioration and break	age.
	Inspected window	ents for poor condition, mounting, marking, ar	nd improper operation.
	Inspected instrum	nd engine controls for improper installation and	d improper operation.
	a. Primary	s for improper installation and improper charge battery failed, will not charge. Replaced prima	ry battery with non 2
		batteries failed in avionics. Replaced battery	
	c. ELT rem	ote batteries due for replacement. Replaced be PX12L. Replaced battery in audio alert with n	pattery in remote with new new Duracell CR-2. Next due
BYOUR BROKE			
	d. ELT batt battery l.	ery due for replacement. Replaced battery with AW installation manual. Next due May 2028. ICA self-test must be performed every 3 mon Section 9 of installation manual.	ths. Instructions on page 10
		Continued next page	7

MAINTENANCE RECORD F.A.R. 43.9 oper installation, poor general conditions the state of the stat

_	Inspected all systems for improper installation, poor general condition, apparent and obvious	CATE NO.
9.		NE TO SERVICE
	to a landing goor for poor condition and insectifity of all aviilletit.	- AL A
10.	Inspected linkages, trusses, and members for undue or excessive wear, fatigue, and distortion.	
	at all hydroulic lines for lookage	REAL PROPERTY.
12.	Inspected electrical system for chafing and improper operation of switches.	
14.	Inspected tires for wear and cuts. Left main tire sidewall cracked. Replaced tire with new Deli	
15.	Inspected tires for wear and cuts. Left main the sidewan draws and the sidewan draws and the sidewan draws are sidewan draws.	
	tire 13x5-6 4PR tubeless tire.	Promise and the second
16.	Inspected brakes for improper adjustment.	
17.	Inspected all components of the wing and center section assembly for poor general condition,	
	fabric or skin deterioration, distortion, evidence of failure, and insecurity of attachment.	
18.	Inspected all components and systems that make up the compete empennage assembly for	
	poor general condition, fabric or skin deterioration, distortion, evidence of failure, insecure	
	attachment, improper component installation, and improper component operation.	
19.	Inspected radio and electronic equipment for improper installation and insecure mounting.	
20	Inspected wiring and conduits for improper routing, insecure mounting, and obvious delects.	
21.	Inspected antenna including trailing antenna for poor condition, insecure mounting, and	
	improper operation	
I ce	ertify that this Airframe has been inspected according to a CONDITION INSPECTION and was	
	nd to be airworthy.	
	"Maintenance Release"	TO STATE OF THE PARTY.
The	aircraft and or component identified above was repaired and inspected in accordance with	
CHI	rent Federal Aviation Regulations and was found airworthy for return to service. Pertinent details	
of t	he repair are on file at this agency. Aircraft returned to service.	
011	James A.Shadd A&P 4120371 IA	TO ME SHOW
	James A.Shada Adi 4120371 IA	
-		
	- End Wark-	
_		

		F.A.R. 43.9	
DATE OF COMPLETION	AIRCRAFT TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED OR APPROVED DATA USED	AGENCY & CERTIFICATE NO. WORK PERFORMED/RETURNED TO SERVE
11 DECZ	B EST. 54.0	Removed and replaced	Maj
		CAPT / FO throttle quadrants	35,0676 A/P
		and cables. Pemoved and	
		replaced exhaust springs.	
		Desecured engine wiring	
		as required Engine run	
		perormed after throttle	
		quadrant replacement 085	
		CHK good Hireraft OK	
		For operation.	Control of the state of the sta
Create	d 09/17/2024 N767RE Qu	uad City Challenger XL-65 S/N Ch2-1114-LSS-L65-0262. Engine	1 Tach 57.00 TTIS 67.00 Hobbs 67.00
Removes	ved main & nose wheels. In good. Taxi checks good.	nstalled Puddle Jumper float kit IAW Puddle Jumper installation instruction Performed weight & balance, new Empty Weight 710.0lbs, new EWC	ctions. Ops check of retraction & locking
Richar	rd Dorr A&P 2728023 IA	Date: 9/17/24 Signature: Zum Mille	

			ICE
Created 10/16/2024	4 N767RE Quad City Challenger XL-65 S/N Ch2-1114-LSS-L65-026	62. Engine 1 Tach 57.00 TTIS 67.00	Hobbs 67.00
landing gear areas	r inspection, performed operational test of all exterior lights, cleaned, se Performed Condition inspection on airframe in reference to 14 CFR Pai d and successfully tested ELT, ELT Battery due at 05/2028. Performed g	irt 43 Appendix D and EAA Condition In	espection
were normal			
certify that this A	AIRFRAME has been inspected in accordance with a CONDITION IN	SPECTION and is approved for return	n to service.
Richard Dorr A&	RP 2728023 IA Date: 10/16/24 Signature:		
		15 Table 1	
Oct 24			chal
	drawing Substitud 0.083°	2014-13 alc/2d in	Place
	of 18 phyword New empty	N+06(calculated) 1	V ., 28
	o chicky nt 713.41 165		
in a	Kuhil Miller AP1718	8025	
		3/	3
		Tuš	

Flight Weight & Balance Data

		AIRCRAF	T MEI OH	T AND BAL	ANCE		
2 3	Date Weighed: Aircraft Type: Name of Owner: DATUM Location:	9/17/2024 Challeger I Patrick Loft Nose cone	l venholm		S	i/N: CH2-1114-LSS- #: 767RE NC bought on: Feb 2 NC built in: 7/06/201	024
_				16.		Dant III. 1700/201	
		Scale Reading	Tare	Lbs Weight	Inches		C/G
	Measured Weights	606	0.0	306.0	STA	Moment	Location
	Left wheel	607	0.0	307.0	93.25	28,534.50	
	Right wheel	97	0.0	97.0	93.25	28,627.75	
1	Aft Floats			91.0	169.50	16,441.50	
	Equipment added or removed after weight	ng plane.		0.0	444		
I	Fuel			0.0	103.00	0.00	
						0.00	
						0.00	
						0.00	
			t ~ 450	4-		0.00	
6 7	Totals: (Plane's Empty Condition)	Ave. C-2	2 wt.~ 450	710.0		73,604	103.7
. 1		Gallons	Oil / Fuel	Mixture =			
	Payload:	0.0			50	:1	
	Oil ~ (Weighed full)			0.0	103.00	-	
	Main Fuel Tank (#1)	0		0.0	103.00	-	
	Extra Fuel Tank(#2 in rear seat)	0		0.0		-	
	Oil ~ (Weighed full)	0		0.0	77.00		
Ľ	Pilot: (Front Seat Solo)				50.00		
L	Pilots helmet (2.5 lbs.)				53.00	-	
Ŀ	CoPilot: (Rear Seat)				77.00	-	
L	CoPilots helmet (2.5 lbs.)			1	80.00	-	
_	ther:		district to			Contract of	
	PS (portable at .8 lbs.)		And I forest	Harrier .	35.3		-
	adio (portable at 1.4 lbs.)		17		35.31	-	
W	eight under Engine			1	117.00	-	
+	otals: (Plane's Loaded Take-off weight)		(1) IL	710.0		73,604	103.7
-		Payload for	thic flt =	7 10.0		% MAC =	63.7
1	Planes Take-off speed at			43.4	MPH	70 IVIAC -	03.7
	Maneuvering Speedat	this lift-off	weight =	70.9	MPH		
No	te: MAX ALLOWABLE GROSS WT. =	800	Lbs. At	6.00	G's Ultimate	C.G. must be be	tween:
+		710.0	Lbs. At	6.76	G's Ultimate	80 & 90 inc	hes
T	Planed flight time for this trip		HRS.	MAX FLIG	HT DURATION	Est'd Range=	#DIV/0
	Est'ed ground speed for this trip		MPH	#DIV/0!	HRS.		
	Est'ed trip fuel burn-off rate	- 10	GPH				
	Trip est'ed fuel burn est	- 40	GAL'S	0.00	GAL'S OF FUEL	REMAINING	15
_	Otale: (Diamete E il in			- Y-2/ 11/2/C		73,604	103.7
1	otals: (Plane's Est'ed Fuel Burnt-off Land	ling weight		710.0		73,004	100.1



The Standard The Standard

ASA-SE-2

Manufacturer Hinth	Model	3203 EFI, RPE Challenger Com
Serial 904030		ertificate N/A
This engine is currently installed in	aircraft: N767RE	Challenger XL-65
Minimum Octane Fuel 91	Oil Grade Summer_	Blue Max inject Winter
Magneto Time	Point Setting	Firing Order
Spark Plug Gap . 0 2 0		
Manufacturer's Recommended Ove	rhaul at 500 hour	rs decarbon inspection

1000 hours Full overhaul

Engine Record General Information

YEAR 20 17 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alteration Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.
7-6	0	-	0	New
7-13	3,4			Adjustments madeduling break-in, Full power
			Name of the last o	was running a little rich, low EGT-about 10%
				Adjusted fuel map to leaner at full power,
				new fuel map file is 3003-mol. Prop pit
				at tip 9.5, Static Rfm 6250. Flight test
				all good. Est peaked at 1250 at 4500 npm.
				Full Power EGT - 1080-1090. CHT peak a
				300-320. Prop saffied. ready for further
				fest flights.
				m om Andrew Humphrey 3279288 At
			C. BINGS	
Nag .	and the same			A Breed of the Section of the Sectio

	3430 O	ld Columbus Road		
YEAR 20_	Phone I Date: 10 ENGIN	Ohio 43130 Number 1-740-777-2191 0-5-2023	Fairfield Aircraft Services	mber of entries.)
DATE	Aircraft manufa Comple 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. I cer	Inspected for CONDITION INSPECTURE service manual. Seted the following: Inspected engine section for viscources of such leaks. Inspected studs and nuts for in Inspected internal engine for conscreens and sump drain plugs. Inspected engine mounts for commount. Inspected flexible vibration dam Inspected engine controls for delinated in the controls for delinated engine controls for confront end. Removed muffler to viscource accessories for appair Inspected all systems for impropriate accessories for impropriate accessories. Inspected engine cowling for order attachment. Inspected engine cowling for order attachment.	PECTION following scope and detail of FAR 43 Appendix D and isual evidence of excessive oil, fuel, or hydraulic leaks, and inproper torquing and obvious defects. In ylinder compression and for metal particles or foreign matter on racks, looseness of mounting, and looseness of engine to inpeners for poor condition and deterioration. In the proper travel, and improper safetying. In the proper safetying in the proper safety ing. In t	
	The curre	aircraft and or component identification	"Maintenance Release" Tied above was repaired and inspected in accordance with	

YEAR 20 Date	RECOF TACH TIME	RDING TODAY FLIGHT		Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
_	Created 10/16	2G24 N767RE H	lirth 3203 EFI S/N	904030 Engine 1 Tach 57.00 TTIS 57.00 TSOH 57.00
	Performed con specifications.	npression check a Performed ground Improved to Tre his ENGINE has	is follows: #1 115, #3 i run, and leak check been inspected in	d engine general areas and wiring bundles. No defects found. Lubed all engine controls. 2: 120. Cleaned, inspected, and tested spark plugs. Torqued to manufactures 3: No leaks or defects were noted at this time. All operations normal at this time. 3: accordance with a CONDITION INSPECTION and is approved for return to service.
_	Richard Dorr	A&P 2728023	IA Date: 10/16/24	Signature:
		<u> </u>		



PEOPELLER LOG

ASA-SP-L

Propeller Record General Information				
Propeller Manufacturer Warp Drive	Serial #	N19209	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second
Model 3 blade Savare tip Left Hand	Type	0	ed Cartala to the co	
Hub Series # HPL	3	- Spirit marks		
Date of Manufacture		, <u>, , , , , , , , , , , , , , , , , , </u>	*	
	華 三量		The process of	America des
	1		1. 2. 4.	1850 M
	4		A	18
Make/Model	4	Serial #		
Aircraft Installed On: Challenger XL65		N767RE		
Y Committee of the comm			P	
		7		
		2 7	7	
nd nd		Pag. 400.		50.

Year: 2017	Total Time in Service	Description		
Date: 7-6	0	New		
Next Inspection Due:	Time Since Overhaul			
-1		Mech. Cert. # or Repair Station #	<u></u>	
Year:	Total Time in Service	Description		
Date:				
Next Inspection Due:	Time Since Overhaul	The same of the sa		
		Mech. Cert. # or Repair Station #		
Year:	Total Time in Service	Description		
Date:		· · · · · · · · · · · · · · · · · · ·		
Next Inspection Due:	Time Since Overhaul	7 P		
		Mech. Cert. # or Repair Station #		

HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS

3430 Old Columbus Road Carroll, Ohio 43130 Phone Number: 1-740-777-2191



Date: 10-5-2023

PROP

TTP: Est: 49 ENGINE TACH: Est: 49 N Number: N767RE

Aircraft inspected for CONDITION INSPECTION following scope and detail of FAR 43 Appendix D and manufacturer service manual.

Completed the following:

- Inspected propeller assembly for cracks, nicks, binds, and oil leakage.
- Inspected bolts for improper torquing and lack of safetying.
- Inspected control mechanism for improper operation, insecure mounting, and restricted travel. certify that this Propeller has been inspected according to a CONDITION INSPECTION and was found to be airworthy.

"Maintenance Release"

The aircraft and or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details of the repair are on file at this agency. Aircraft returned to service

James A. Shadd A&P 4120371 IA

□ HUB & BL	ADE INSPEC	TIONS, REPAIRS AND ALTERATIONS
Created 10/16/	2024 N767RE Wa	arp drive 3 blade savare tip, left hand, 60" S/N N19209 Engine 1 Tach 57:00 TTIS 57:00 TSOH 57:00
	es and general pro done in reference t	peller areas. No damage noted. Inspected attachment hardware, and no defects were found at this at this or FAR 43.9.
		Date: 10/16/24 Signature: The Manual State Constitution of the Con
Next Inspection Due:	Time Since Overhaul	Mech. Cert. # or Repair Station #
Year:	Total Time in Service	Description
Next Inspection Due:	Time Since Overhaul	
		Mech. Cert. # or Repair Station #

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