



The Standard

AIRCRAFT LOG

ASA-SA-2

AIRCRAFT SPRUCE & SPECIALTY CO

PO: 332636 LOT: 30-16102



300280232

ASA SA-2 AIRCRAFT LOG HARDCVR

P/N: 13-32384

LOC: 13KH

REGISTRATION NOT TRANSFERABLE

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
CERTIFICATE OF AIRCRAFT REGISTRATION

This certificate must be in the aircraft when operated.

NATIONALITY AND
REGISTRATION MARKS **N 868JD**

AIRCRAFT SERIAL NO.
070-133/134-941

MANUFACTURER AND MANUFACTURER'S DESIGNATION OF AIRCRAFT
SMITH JULIAN A BEARHAWK

ICAO Aircraft Address Code: 52766533

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O**
BRATTON CHARLES M
1300 BRATTON RD
GATESVILLE TX 76528-3900

This certificate is issued for registration purposes only and is not a certificate of title. The Federal Aviation Administration does not determine rights of ownership as between private persons.

Individual

It is certified that the above described aircraft has been entered on the register of the Federal Aviation Administration, United States of America, in accordance with the Convention on International Civil Aviation dated December 7, 1944, and with Title 49, United States Code, and regulations issued thereunder.

DATE OF ISSUE August 30, 2017
EXPIRATION DATE August 31, 2023

Steve Doherty 765283900
ADMINISTRATOR



U.S. Department
of Transportation
Federal Aviation
Administration

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The Standard Aircraft Log
SA-2

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Aircraft Record General Information

Manufacturer JULIAN A. SMITH Model BEARHAWK
Serial 070-133-134-941 Registration Number N86BJD
Date of Manufacture FEB. 17, 2012

Engine(s) currently installed:

Manufacturer LYCOMING Model O-540-A405 Serial L-5480-40
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer HARTZELL Model _____
HUB Model _____ Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____

Registered Owner Record

Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To
Name	Address		
City	State	From	To

Notes

MAR 1, 2012 I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH THE SCOPE AND DETAILS OF APPENDIX D OF PART 43 AND HAS BEEN FOUND TO BE IN A CONDITION FOR SAFE OPERATION.

Julian R. Smith

FEB 3 2012 - AIRCRAFT WEIGHT & ARM MEASUREMENT

	WEIGHT	ARM	MOMENT	CG
MAIN GEAR-R	744.0	-2.3	-1711.2	
" " -L	717.0	-2.1	-1505.7	
TAIL WHEEL	106.0	198.5	21041.0	
Average Wt	1567.0		17824.1	
* GAS (REMOVE)	- 36.0	24	-864.1	
EMPTY WT	1531.0		16960.0	11.08

YEAR 20 12 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	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.)
MAR 15	0			I find that the aircraft meets the requirements for the certification requested and have issued a Special Airworthiness Certificate dated 3-15-2012. The next inspection is due 3/2012 <i>David D. Hays</i> David D. Hays, Aviation Safety Inspector, CE-21
MAR 19	10.1		10.1	FOOD/LANDING GEAR SHOCK STRUTS LUBBING ON BELLY SKIN DEFUS. REMOVED BELLY SKIN MEDICINE. CUT OUTS TO PREVENT RUBBING REINSTALL SKIN AND SEW
APR 6	25.0		25.0	PERFORMED AIRFRAME & EDGE INSPECTION - MADE ADJUSTMENT TO PROP GOVERNOR - NOTED OIL COOLER LINES TO PREVENT CHIEKING - CHANGED ENGINE OIL & FILTER TEST AND FOUND NO LEAKS - <i>Julian [Signature]</i> BUILDER/OWNER.
APR 13	40.0		40.0	I CERTIFY THIS AIRCRAFT HAS MET THE REQUIREMENTS OF PART 1 OPERATING LIMITATIONS AND PERFORMANCE THROUGH TEST AREA

YEAR 20 12 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	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.)
APR 13	40.0		40.0	RESTRICTIONS NO LONGER APPL. APR, 13 2012 SIGNATURE, PILOT/REGISTERED OWNER <i>Julian [Signature]</i>
APR 13	40.0		40.0	I CERTIFY THAT THE PRESCRIBED FLIGHT TESTS HAVE BEEN COMPLETED AND THE AIRCRAFT IS CONTINUOUSLY THROUGHOUT ITS NORMAL RANGE OF SPEEDS AND THROUGHOUT ALL MANEUVERS TO BE EXECUTED, HAS NO HAZARDOUS OPERATING CHARACTERISTICS OR DESIGN FEATURES, AND IS SAFE FOR OPERATION. THE FOLLOWING AIRCRAFT OPERATING DATA HAS BEEN DEMONSTRATED DURING THE FLIGHT - TESTING: SPEEDS VSO 53 IAS, Vx 65 IAS, AND Vy 80 IAS, AND THE WEIGHT 2250 lbs AND CG LOCATION 15.4" AT WHICH THEY WERE OBTAINED. PILOT/REGISTERED OWNER <i>Julian [Signature]</i>
APR 19	41.8		41.8	RESET TENSION ON TRIM CABLE <i>Julian [Signature]</i> BUILDER/OWNER
JUNE 12	55.3		55.3	REMOVED TRIM TABS - PLANE HUNGERS TO STAY IN NORMAL - REISSUED WITH CHANGE LOG # 3625804

YEAR 20 <u>12</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	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.)
9-12 ↓	75.9 ↓		75.9 ↓	SERVICE ENG + GOOD VISUAL INSPECTION OF AIRFRAME MOD TO EXHAUST COMPLETE JULIAN SMITH 3625804 YEAR 2013
MAR 29	88.5		88.5	I CERTIFY THAT THIS AIRCRAFT (N868JD) HAS BEEN INSPECTED ON MAR 29, 2013 IN ACCORDANCE WITH THE SCOPE AND DETAILS OF APPENDIX "D" OF PART 43 OF THE FAR'S AND FOUND TO BE IN A CONDITION FOR SAFE OPERATION Julian A Smith 3625804
APR 1				EIS COMPUTER SS* 20976 REMOVED BECAUSE OF SOFT- WAKE PROBLEM IN ENG TIME RECORDING RETURN TO GRAND RAPIDS FOR REPAIR Julian A Smith 3625804
				OVER

YEAR 20 <u>13</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	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.)
SEPT 10 ↓	75.0 ↓		75.0 ↓	EIS COMPUTER #33 20976 INSTALLED IN AIRCRAFT - SOFT WAKE PROBLEM FOUND + CORRECTED BY GRAND RAPIDS TOTAL TIME CORRECTED 22.0 HRS TOTAL TIME RESET TO 75.0 HRS. Julian A Smith 3625804
SEPT 10	75.0		75.0	
2014				2014 ——— 2014
MAR 17	79.5		79.5	I CERTIFY THAT THIS AIRCRAFT (N868JD) HAS BEEN INSPECTED ON MAR 17, 2014 IN ACCORDANCE WITH THE SCOPE AND DETAILS OF APPENDIX "D" OF PART 43 OF THE FAR'S AND FOUND TO BE IN A CONDITION FOR SAFE OPERATION. Julian A Smith 3625804
MAY 23	81.8		81.8	REPLACE CARB WIR TEMP PROB Julian A Smith 3625804
				OVER

YEAR 20 <u>17</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	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.)
<u>Jun 22</u>	<u>111.9</u>		<u>111.9</u>	<u>REINSTALL PROP PER HARTZELL INSTRUCTIONS 61-06-15</u> <u>Julian G. Sillis 3625804</u>
<u>JULY 2</u>	<u>112.4</u>		<u>112.4</u>	<u>I CERTIFY THAT THIS AIRCRAFT (N868JD) HAS BEEN</u> <u>INSPECTED ON JULY 2, 2017 IN ACCORDANCE</u> <u>WITH THE SCOPE AND DETAILS OF APPENDIX "D"</u> <u>OF PART 43 OF THE FAR'S AND FOUND TO BE IN A</u> <u>CONDITION FOR SAFE OPERATION</u> <u>Julian G. Sillis</u> <u>3625804</u>

07/20/2017 Bearhawk N868JD s/n 070-133-134-941 Tach reads 120.6 hrs.
 Installed Grand Rapids EIS FT-60 fuel flow transducer according to FI instructions dated 10/30/2003
 Rev. F: 7/24/13. Checked for leaks and found none. Joseph G. Sillis A&P405867971

YI 2I DI	REG. <u>N868JD</u> ACT T <u>121.2</u> DATE <u>7/20/17</u> WO# <u>3242</u> I CERTIFY THAT THIS TRANSPONDER MAKE <u>GARMIN</u> MODEL <u>GTX-320A</u> SN <u>93911220</u> AS INSTALLED IN THIS AIRCRAFT HAS BEEN TESTED PER 14 CFR SECTION 91.413 IN ACCORDANCE WITH FAR 43 APPENDIX F. SIGNED <u>Joseph G. Sillis</u> KACHEMAK BAY FLYING SERVICE 7720-C AIRPORT RD. TEMPLE, TX 76504 CRS# G8VR708N	Inspections, Tests, Repairs and Alterations ed with Name, Rating and Certificate Number of ility. (See back pages for other specific entries.)

07/12/2018 Bearhawk N868JD s/n: 070-133/134-941 tach Reads 163.7 AFTT: 163.7 owner: Charles Bratton
 Lycoming 0-540-A1B5 s/n: L-5480-40 TSO/TIS: 163.7
 Hartzell HC-C2Y-1BF s/n: CH36706B TSO: 163.7
 Installed TruTrak Vizion 385 autopilot IAW TruTrak Vizion 380/385 installation manual.
 Installed battery warning light.
 Installed two dual usb outlets. Work performed with reference to AC 43.13-1B
 Performed condition inspection and servicing according to Bearhawk builders manual and the scope and detail of FAR 43 appendix D. Performed ELT inspection and testing according to FAR 91.207 (d) .I certify that this aircraft has been inspected according to FAR 43.15(a)(1)(c)(2) for a condition inspection and was determined to be in a condition for safe operation. Michael K. Weiss A&P 3566362

YEAR
20
DATE

07/15/2019 Bearhawk N868JD s/n 070-133//134-941 Tach Reads 216.6 owner: C. Bratton
Lycoming o-540-A1B5 s/n L-5480-40 TSO: 216.6
Hartzell HC-C2Y-1BF s/n CH36706B TSO: 216.6

Performed condition inspection and servicing to Bearhawk builders guide and the scope and detail of FAR 43 appendix D. Performed ELT inspection and testing per FAR 91.207(d). Removed Garmin transponder, installed new Garmin GTX335 transponder with encoder, performed set up. I certify that this aircraft was inspected according to FAR 43.15(a)(1)(c)(1)(2) and is in condition for safe flight operations. Joseph G. Sills A&P405867971

REG. N868JD AC TT 217.6

DATE 7/17/19 WO# 3462

I CERTIFY THAT THIS TRANSPONDER
MAKE Garmin MODEL GTX-335
SN 3EE424070 AS INSTALLED IN THIS
AIRCRAFT HAS BEEN TESTED PER 14 CFR
SECTION 91.413 IN ACCORDANCE WITH FAR
43 APPENDIX F.

SIGNED H. Rubio
KACHEMAK BAY FLYING SERVICE 7720-C AIRPORT RD.
TEMPLE, TX 76504 CRS# G8VR708N

Kachemak Bay Flying Service

7720C Airport Road • Temple, TX 76504 • 254.773.9902

its, Repairs and Alterations

Rating and Certificate Number of
(pages for other specific entries.)

CRS# G8VR708N

N868JD Smith Julian A Bearhawk S/N: 70-133/134-94 Tach: 217.6 July 17, 2019

Calibrated Garmin Altitude Encoder, currently installed on GTX-335 s/n:3EE424070, IAW GTX 3XX Part 23 AML STC Installation Manual No.190-00734-10, Rev.12, dated April 2019. See work order # 3462 kept on file at this station for details. Aircraft is approved for return to service for work performed.

Hector Rubio H. Rubio

09/25/2020 Bearhawk N868JD s/n: 070-133/134-941 tach Reads 262.8 AFTT: 262.8 owner: Charles Bratton

Lycoming O-540-A1B5 s/n: L-5480-40 TSO/TIS: 262.8

Hartzell HC-C2Y-1BF s/n: CH36706B TSO: 262.8

Removed baffle seal and fabricated pressure plenum.

Replaced tailwheel steering springs with compression type springs. Replaced tailwheel lock pin, unlock bearing and bolt. Performed condition inspection and servicing according to Bearhawk builders manual and the scope and detail of FAR 43 appendix D. Performed ELT inspection and testing according to FAR 91.207 (d) I certify that this aircraft has been inspected according to FAR 43.15(a)(1)(c)(1)(2) for a condition inspection and was determined to be in a condition for safe operation.

Michael K. Weiss A&P 3566362 M. Weiss

Kachemak Bay Flying Service
7720C AIRPORT RD.
TEMPLE, TX. 76504
3 September 2021

Inspection, Tests, Repairs and Alterations
(Rating and Certificate Number of
pages for other specific entries.)

N868JD Smith Julian A Bearhawk S/N:070-133/134-941 Tach:286.5

1. Installed B&C Specialty Products Spline-Drive Alternator p/n: BC410-H s/n: 2C11E2R55K for Lycoming and Continental Engines IAW B&C Specialty Products Technical Manual/Installation Instructions for Model No. BC410-H for Lycoming and Continental Engines dated 05/03/16.
2. Installed B&C Specialty Products Linear Standby Regulator p/n: SB1B-14 s/n:2L10E6P02 with Over-Voltage Protection IAW B&C Specialty Products Technical Manual/Installation Instructions for Model No. SB1B-14 With Over-Voltage Protection, Rev. C, dated 09/16/16.
3. Installed Enhanced Flight by Audio Corporation Battery Minder Airframe Interface Kit p/n:BM-AIK2A IAW BM-AIK2A and BM-AIK1* Installation Instructions Airframe Interface Kit for Battery Minder Maintenance Charger-Desulfator No. 752-647D dated 20190308
4. Replaced old tail-wheel assy. tire p/n:10inx3.50in-4 IAW BearHawk maintenance instructions.
5. Performed condition inspection and servicing according to Bearhawk builders manual and the scope and detail of FAR 43 appendix D.
6. I certify that this aircraft has been inspected according to FAR 43.15(a)(1)(c)(2) for a condition inspection and was determined to be in a condition for safe operation.

H.R.
Hector Rubio A&P# 3872801

Kachemak Bay Flying Service
7720C AIRPORT RD.
TEMPLE, TX. 76504
3 September 2021

Inspection, Tests, Repairs and Alterations
(Rating and Certificate Number of
pages for other specific entries.)

N868JD Smith Julian A Bearhawk S/N:070-133/134-941 Tach:286.5

1. Removed 2 master brake cylinders' p/n: A-110-10 and overhauled IAW manufacturer's maintenance instructions.
2. Installed Orolia SAS AF Integra ELT p/n:S1851501-02 s/n:LX1101752022 in tail section of aircraft on aft avionics shelf IAW Kannad Aviation Emergency Locator Transmitters Initial Installation Manual No. DOC09081E, Rev. 04, dated Nov 02/2015. Installed AMERI-KING Retrofit Installation Kit p/n: 1202573 s/n:TM0000203486 in tail section of aircraft on aft avionics shelf IAW Kannad Aviation Emergency Locator Transmitters Initial Installation Manual No. DOC09081E, Rev. 04, dated Nov 02/2015.
3. Performed ELT inspection and testing according to FAR 91.207(d).
4. Found cracks on upper engine cover. Repaired Upper engine cover with doubler to front inboard corner. Used T-2024 aluminum IAW AC 43.13-1B.
5. Performed condition inspection and servicing according to Bearhawk builders manual and the scope and detail of FAR appendix D.
6. I certify that this aircraft has been inspected according to FAR 43.15(a)(1)(c)(1)(2) for a condition inspection and was determined to be in a condition for safe operation.

H.R.
Hector Rubio A&P# 3872801

YEAR
20 21
DATE

Kachemak Bay Flying Service

7720C Airport Road • Temple, TX 76504 • 254.773.9902
CRS# G8VR708N

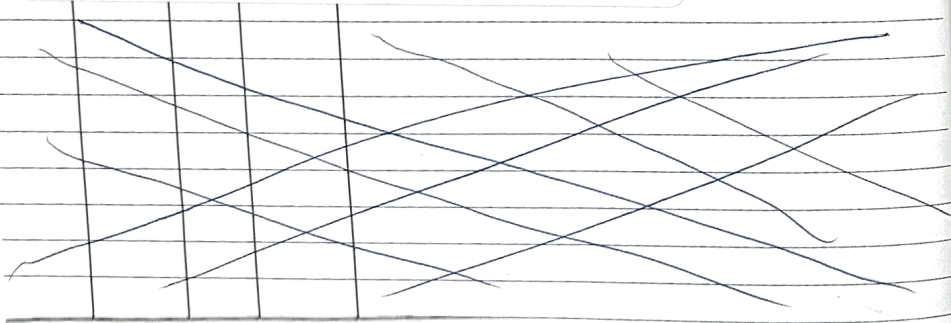
Repairs and Alterations

and Certificate Number of
for other specific entries.)

N868JD Smith Julian A Bearhawk S/N: 070-133/134-941 Tach: 286.5 September 13, 2021

Removed ICOM, A-200 COM, Garmin GTX-335 XPDR, GRT EIS Display, Attitude Indicator, Airspeed Indicator, Altimeter, and TruTrak Autopilot System. Installed Garmin G3X Integrated Avionics Display System including the following: GDU460 10" Display in Pilot's Panel; GDU 470 7" Display in Co-Pilot's Panel; GSU25 on back of GDU460 Display; GTR-20 Com behind Co-Pilot's kick panel; GAD27 Interface behind instrument panel; GEA24 Engine Analyzer behind instrument panel; GTP 59 on right side fuselage; GSA28 Pitch/Roll Servos under front seats; and GMU11 Magnetometer in tail cone. Installation accomplished IAW Garmin G3X Installation Manual No. 190-01115-01, Rev. AN dated March 2021. Ops check good. The "G3X Pilot's Guide" No. 190-01754-00 Rev. S dated September 21021 must be carried in the airplane at all times. Installed Garmin G5 Experimental Standby Instrument on pilot's instrument panel and GAD29B behind instrument panel IAW Garmin G5 Install Manual, PN: 190-02072-01, Rev 8 dated December 2020. Installed Garmin GMA245R behind Pilot's kick panel IAW Garmin GMA245R Install Manual No. 190-01879-11, Rev. 10, dated May 2021. Installed Garmin GTX45R behind

KLH
Continued



YEAR
20 21
DATE

Kachemak Bay Flying Service

CRS# G8VR708N

N868JD Smith Julian A Bearhawk S/N: 070-133/134-941 Tach: 286.5 September 13, 2021

GTN750Xi GPS IAW GTX45R Install Manual No. 190-01499-04, Rev. 4, dated June 2018. Installed Garmin GTN750Xi in center panel IAW GTN Xi Series TSO Install Manual No. 190-02327-02, Rev. 7 dated August 2021. Installed Garmin GAP26 Heated Pitot Probe on right wing using existing mount IAW G3X Installation Manual No. 190-01115-01, Rev. AN dated March 2021. Installed MaxDim Dual Dimmer Controller p/n: 9100-001-D IAW MaxDim Installation Instructions No. 9150-003, Rev. A Dated September 2009. Installed CI-159C NAV Antenna under floor behind rear seats. Replaced all panel switches with Aero Rocker lighted rocker switches, p/n: AR-S-11A, AR-S-11B, and AR-S-12-2G. Replaced circuit breakers with Klixon 7277-2 Series pull type circuit breakers. All work accomplished IAW current manufacturer's install manuals, and AC43.13-1B Chapters 11 and 12, AC 43.13-2B Chapters 1 and 2. Aircraft weighed by A&P Mechanic. Ops check performed and all systems installed perform satisfactorily. Performed Electrical Load Analysis IAW AC 43.13-2B, Chapter 2, Para. 208. Total load does not exceed 80% of Alternator output. Flight check accomplished. See work order # 3640 kept on file at this station for details. Aircraft is approved for return to service for work performed

Roep Lee Hausenfluke

REG. N868JD TOTAL TIME 286.5

DATE 9/13/21 WO# 3640

I CERTIFY THAT THE ALTIMETER AND STATIC SYSTEM TESTS AS REQUIRED BY 14CFR 91.411 HAVE BEEN PERFORMED IN ACCORDANCE WITH FAR 43 APPENDIX E, TO 20K FEET.

I CERTIFY THAT THIS TRANSPONDER MAKE Garmin MODEL GTX45R SN 44C040583

AS INSTALLED IN THIS AIRCRAFT HAS BEEN TESTED PER 14CFR SECTION 91.413 IN ACCORDANCE WITH FAR 43 APPENDIX F.

SIGNED

KACHEMAK BAY FLYING SERVICE 7720-C AIRPORT RD.
TEMPLE, TX 76502 CRS# G8VR708N

