

**HARTZELL**

N836EA

# **PROPELLER OWNER'S MANUAL**



**HARTZELL**

# PROPELLER LOGBOOK

PROPELLER MODEL HC-<sup>-E4N-</sup>~~E4N~~-3/E 9083 SK

PROPELLER S/N HH4714

LOGBOOK # \_\_\_\_\_

## PROPELLER MAINTENANCE RECORD

Position \_\_\_\_\_

Propeller Model HC-E4N-3

Propeller S/N HH4714

Blade Design \_\_\_\_\_

Blade S/N's

No. 1 L32142

No. 2 L32145

No. 3 L32146

No. 4 L32143

No. 5 \_\_\_\_\_

No. 6 \_\_\_\_\_

Spinner Assembly Part No. \_\_\_\_\_

PITCH RANGE

High/Feather \_\_\_\_\_

Start Lock \_\_\_\_\_

Low \_\_\_\_\_

Reverse \_\_\_\_\_

Aircraft Manufacturer Cocata-Daher

Aircraft Model IBM 700

S/N 657

Registration N836EA



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## PROPELLER RECORD ENTRY

Registration	N836EA
Model No.	TBM 700
Serial No.	657
Propeller M/N	HC-E4N-3
Propeller S/N	HH4714

Cutter Aviation San Antonio, Inc.  
367 Sandau Rd.  
San Antonio, Texas 78216  
FAA Repair Station No. U7TR491Y  
Phone (210) 340-6780 Fax (210) 384-3394

Hour Meter	101.8
Total Time	101.8
TSN	101.8
TSOH	

Page 1 of 1

1. COMPLIED WITH SOCATA TBM850 FIRST 100 HOUR INSPECTION AS PER SOCATA TBM 850 MAINTENANCE MANUAL, CHAPTERS 05-20-02 INSPECTION CHECKLIST.
2. DRESSED PROPELLER BLADES.
3. COMPLIED WITH PROPELLER LUBRICATION.
4. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.

I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES OF A FIRST 100 HOUR INSPECTION IN ACCORDANCE WITH THE TBM850 MAINTENANCE MANUAL CHAPTER 5-20-01 AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under **Work Order: 11M-2494.**

Date:

7/29/2013

Authorized Signature:

Tom Bierschwale



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### PROPELLER RECORD ENTRY

Registration	N836EA
Model No.	TBM 700
Serial No.	657
Propeller M/N	HC-E4N-3
Propeller S/N	HH4714

Cutter Aviation San Antonio, Inc.  
367 Sandau Rd.  
San Antonio, Texas 78216  
FAA Repair Station No. U7TR491Y  
Phone (210) 340-6780 Fax (210) 384-3394

Hour Meter	195.1
Total Time	195.1
TSN	195.1
TSOH	—

Page 1 of 1

1. COMPLIED WITH SOCATA TBM850 "A" INSPECTION AS PER SOCATA TBM 850 MAINTENANCE MANUAL, CHAPTER 05-20-02 INSPECTION CHECKLIST.
2. REBONDED LOOSE AREA OF ONE PROPELLER DEICE BOOT IAW HARTZELL DEICE MANUAL CHAPTER 61-12-82
3. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.




I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES OF AN "A" INSPECTION IN ACCORDANCE WITH THE TBM850 MAINTENANCE MANUAL CHAPTER 5-20-01 AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under Work Order: 11M-2584.

Date: 10/16/2013

Authorized Signature:

Tom Bierschwale



Date	Propeller TSN    TSO	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.	
			 <b>Leading the Business of Aviation</b>	
			<b>PROPELLER RECORD ENTRY</b>	
	Registration	N836EA	Cutter Aviation San Antonio, Inc. 367 Sandau Rd. San Antonio, Texas 78216 FAA Repair Station No. U7TR491Y Phone (210) 340-6780 Fax (210) 384-3394	
	Model No.	TBM 700		
	Serial No.	657		
	Propeller M/N	HC-E4N-3		
	Propeller S/N	HH4714		
	Hour Meter	337.2		
	Total Time	337.2		
	TSN	337.2		
	TSOH	--		
			Page 1 of 1	
	1. COMPLIED WITH SOCATA TBM850 "B+" ANNUAL INSPECTION AS PER SOCATA TBM 850 MAINTENANCE MANUAL, CHAPTER 05-20-02 INSPECTION CHECKLIST. 2. COMPLIED WITH 12 MONTH BETA RING AND CARBON BLOCK DIMENSIONAL INSPECTION IAW TBM 850 MM 05-20-05. COMPLIED WITH 12 MONTH LUBRICATION IAW TBM 850 MM 61-10-01. INSTALLED NEW BETA CARBON BLOCK IAW HARTZELL PROPELLER OWNERS MANUAL #149. BLENDED PROPELLER BLADES AS NEEDED IAW HARTZELL PROPELLER OWNERS MANUAL #149. TOUCHED UP PAINT AS NEEDED. 3. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.			
	I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES OF AN "B+" ANNUAL INSPECTION IN ACCORDANCE WITH THE TBM850 MAINTENANCE MANUAL CHAPTER 5-20-01 AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under <b>Work Order: 11M-2844.</b>			
	Date:	04/28/2014	Authorized Signature:	 Richard Kurland

# DAHER



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## PROPELLER RECORD ENTRY

Registration	N836EA
Model No.	TBM 700
Serial No.	657
Propeller M/N	HC-E4N-3
Propeller S/N	HH4714

Cutter Aviation San Antonio, Inc.  
367 Sandau Rd.  
San Antonio, Texas 78216  
FAA Repair Station No. U7TR491Y  
Phone (210) 340-6780 Fax (210) 384-3394

Hour Meter	644.2
Total Time	644.2
TSOH	---
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Page 1 of 1

1. COMPLIED WITH SOCATA TBM850 "A+" ANNUAL INSPECTION AS PER SOCATA TBM 850 MAINTENANCE MANUAL, CHAPTER 05-20-02 INSPECTION CHECKLIST.
2. COMPLIED WITH 12 MONTH LUBRICATION.
3. COMPLIED WITH 12 MONTH DIMENTIONAL CHECK OF BETA CARBON BLOCK. FOUND OUT OF LIMITS. INSTALLED NEW BETA CARBON BLOCK P/N CA3026 IAW HARTZELL PROPELLER OWNERS MANUAL #149.
4. BLENDED PROPELLER BLADES AS NEEDED IAW HARTZELL PROPELLER OWNERS MANUAL #149. TOUCHED UP PAINT AS NEEDED.
5. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.



I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES OF AN "A+" ANNUAL INSPECTION IN ACCORDANCE WITH THE TBM850 MAINTENANCE MANUAL CHAPTER 5-20-02 AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under **Work Order 11M-3286**.

Date:

04/10/2015

Authorized Signature:

Tom Bierschwale

Date	Propeller TSN    TSO	A/C Hrs	Description of all operations pertaining to Airworthiness Directives, Service Documents, Overhaul, Major or Minor Repair, and Inspections.	
	<b>DAHER</b>		 <b>Leading the Business of Aviation</b>	
	Registration	N836EA	Cutter Aviation San Antonio, Inc. 367 Sandau Rd. San Antonio, Texas 78216 FAA Repair Station No. U7TR491Y Phone (210) 340-6780 Fax (210) 384-3394	
	Model No.	TBM 700		
	Serial No.	657		
	Propeller M/N	HC-E4N-3		
	Propeller S/N	HH4714		
			Hour Meter	1220.9
			Total Time	1220.9
			TSN	1220.9
			TSOH	--
			Page 1 of 1	
	1. COMPLIED WITH SOCATA TBM850 "B" INSPECTION AS PER SOCATA TBM 850 MAINTENANCE MANUAL, CHAPTER 05-20-03 INSPECTION CHECKLIST. 2. PREPPED AND REPAINTED PROPELLER BLADES USING PAINT P/N GRAY 14A89-503, WHITE 14W89-611 AND BLACK 14B89-510. 3. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.			
	I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH THE INSTRUCTIONS AND PROCEDURES OF A "B" INSPECTION IN ACCORDANCE WITH THE TBM850 MAINTENANCE MANUAL CHAPTER 5-20-01 AND IS CONSIDERED TO BE IN AIRWORTHY CONDITION AND APPROVED FOR RETURN TO SERVICE. Pertinent details of the repair are on file at this repair station under Work Order: 11M-3942.			
	Date:	12/06/2016	Authorized Signature:	 Richard Kurland



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## PROPELLER RECORD ENTRY

Registration	N836EA
Model No.	TBM 700
Serial No.	657
Propeller M/N	HC-E4N-3
Propeller S/N	HH4714

Cutter Aviation San Antonio, Inc.  
367 Sandau Rd.  
San Antonio, Texas 78216  
FAA Repair Station No. U7TR491Y  
Phone (210) 340-6780 Fax (210) 384-3394

Hour Meter	1311.8
Total Time	1311.8
TSOH	---
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Page 1 of 1

1. INSPECTED THIS PROPELLER USING DAHER TBM700 MM CHAPTER 5-20-02 (STANDARD PROGRAM A INSP) AND 05-20-05 (12 MONTH SPECIAL CHECKS) INSPECTION CHECK LISTS AS A GUIDE.
2. COMPLIED WITH 12 MONTH LUBRICATION. REFERENCE TBM850 MM CHAPTER 61-10-01.
3. COMPLIED WITH 12 MONTH DIMENSIONAL CHECK OF BETA CARBON BLOCK. FOUND OUT OF LIMITS. INSTALLED NEW BETA CARBON BLOCK P/N CA3026 IAW HARTZELL PROPELLER OWNERS MANUAL CHAPTER 61-10-43. OPS CHECKED GOOD.
4. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.

The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under **Work Order: 11M-4117.**

Date: 04/07/2016

Authorized Signature:

Tom Bierschwale

Date

**DAHER****Leading the Business of Aviation****PROPELLER  
RECORD ENTRY**

Registration N836EA

Model No. TBM 700

Serial No. 657

Propeller M/N HC-E4N-3

Propeller S/N HH4714

Cutter Aviation San Antonio, Inc.  
367 Sandau Rd.  
San Antonio, Texas 78216  
FAA Repair Station No. U7TR491Y  
Phone (210) 340-6780 Fax (210) 384-3394

Hour Meter 1524.6

Total Time 1524.6

TSOH ---

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Page 1 of 1

1. INSPECTED THIS PROPELLER USING DAHER TBM700 MM CHAPTER 5-20-04 (STANDARD PROGRAM C INSP) AND 05-20-05 (12 MONTH SPECIAL CHECKS) INSPECTION CHECK LISTS AS A GUIDE.
2. COMPLIED WITH **12 MONTH** 5-BLADE PROPELLER PERIODIC INSPECTION. REF HARTZELL OWNERS MANUAL 147 CH.61-00-49 AND CHECK SECTION 5 PARAGRAPH 4. NO DEFECTS NOTED.
3. COMPLIED WITH **12 MONTH** LUBRICATION. HARTZELL PROPELLER OWNER'S MANUAL 147, CH.61-00-47.
4. COMPLIED WITH **12 MONTH** DIMENSIONAL CHECK OF BETA CARBON BLOCK. FOUND OUT OF LIMITS. INSTALLED NEW BETA CARBON BLOCK P/N CA3026 WITH NEW "T" COTTER PIN P/N A4543. REF HARTZELL PROPELLER OWNERS MANUAL 147 CHAPTER 60-00-47. OPS CHECKED GOOD.
5. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.

The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under **Work Order: 11M-4483.**

Date: 04-13-2018

Authorized Signature:

S.HOLLIDAY

**JORDAN PROPELLER SERVICE, INC.**

103 East Rhapsody San Antonio, Texas 78216

Certificated Repair Station No. EK2R797K

PROPELLER S/N HH4714 HAS BEEN OVERHAULED

REFERENCE Hartzell Manuals 133C Rev. 38, 143A Rev. 21 & 159 Rev. 66.

Shotpeened Blade Airfoils Per Manual 133C Rev. 38. C/W Service Bulletins 30-366R3, 61-136R1, 61-346R2, 61-374R1 and Service Letters 30-260R22, 30-284R1, 61-177, 61-187R3, 61-217, 61-241R3, 61-267, 61-282R1, 61-293R1, 61-348 & 61-354.

PERTINENT DETAILS ON FILE UNDER WORK ORDER 20285

SIGNED

*Barry G. Jordan*

DATE

03/May/2019

MECHANIC MAKING INSTALLATION ON A/C MUST C/W FAR 43.9



Date

**DAHER**

Leading the Business of Aviation

## PROPELLER RECORD ENTRY

Registration N836EA

Model No. TBM 700

Serial No. 657

Propeller M/N HC-E4N-3

Propeller S/N HH4714

Cutter Aviation San Antonio, Inc.

367 Sandau Rd.

San Antonio, Texas 78216

FAA Repair Station No. U7TR491Y

Phone (210) 340-6780 Fax (210) 384-3394

Hour Meter 1668.0

Acft Total Time 1668.0

Prop TSN 1668.0

TSOH -0-

Page 1 of 1

1. INSPECTED THIS PROPELLER USING DAHER TBM700 MM CHAPTER 5-20-02 (STANDARD PROGRAM A INSP) AND 05-20-05 (12 MONTH SPECIAL CHECKS) INSPECTION CHECK LISTS AS A GUIDE.
2. REMOVED AND REINSTALLED THIS PROPELLER AFTER OVERHAUL WAS PERFORMED BY JORDAN PROPELLER CRS# EK2R797K UNDER THEIR WO# 28285. SEE THEIR 8130-3 AND LOG ENTRY DATED 03/MAY/2019.
3. COMPLIED WITH PROPELLER DYNAMIC BALANCING WITH REFERENCE TO ACES BALANCE COMPUTER MANUAL AND HARTZELL MANUAL 149, CHAPTER 61-00-49. PAGE 6-20. FINAL SOLUTION HAD AN IPS OF 0.10. INSTALLED PERMANENT BALANCE WEIGHTS.
4. COMPLIED WITH 12 MONTH PROP LUBE (4 BLADE) LUBRICATION. REFERENCE TBM MM CHAPTER 61-10-01.
5. COMPLIED WITH 12 MONTH DIMENSIONAL CHECK OF BETA CARBON BLOCK. INSTALLED NEW BETA RING CARBON BLOCK P/N CA3026 AND SAFTIED WITH COTTER PIN P/N A4543 REF HARTZELL PROPELLER OWNERS MANUAL #149 CHAPTER 61-00-49.
6. PRE AND POST INSPECTION MAINTENANCE RUN-UPS WERE PERFORMED. NO DEFECTS NOTED.

The aircraft/component identified above was maintained or altered in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. All disrupted systems were restored and functionally tested in accordance with mfg's instructions. Pertinent details of the repair are on file at this repair station under Work Order: 11M-4896.

Date:

05-09-2019

Authorized Signature:

S. HOLLIDAY





C.R.S X1IR595Y

Page 1 of 1

205 Durley Ave Suite A, Camarillo, CA 93010 Phone: (805)389-1188 | Fax: (805) 389-3323

N836EA

Work Order No: MXCA1608

June 12, 2023

Propeller MFR: Hartzell

Model: HC-E4N-3/E9083S(K)

SN: HH4714

HOBBS: 2,357.40

TSN: 2,357.40

TSO: 689.40

Complied with a "B" inspection plus annual in reference to Daher MM Chapter 05-20-03, 05-20-05 and Hartzell MM 149. All AD's checked through revision 2023-12; see AD compliance record provided with the airframe logbook. Daher checklist meets requirements of 14 CFR 91.409 and 14 CFR 43 Appendix D.

Dressed and painted propeller I.A.W. Hartzell 149 MM Chapter 61.


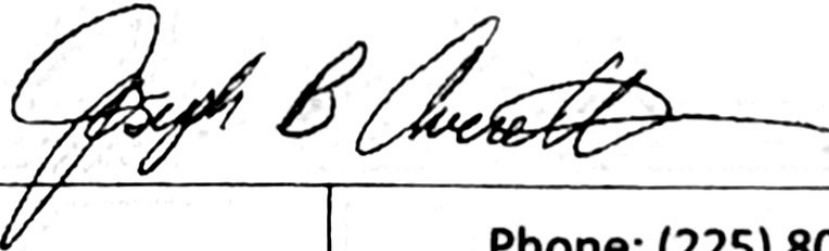
Removed propeller carbon beta block and replaced with new I.A.W. Hartzell MM 149.

Balanced the aircraft propeller I.A.W. Daher MM Chapter 61 and Hartzell MM 149. IPS: 0.027 RPM: 1655.

This aircraft, airframe, aircraft engine, propeller or appliance was repaired/inspected in accordance with the current Federal Aviation Regulations and has been found to be in an airworthy condition for scope of work performed. Pertinent details of the repair/inspection are on file at this Repair Station under Work Order No. MXCA1608.

  6/12/2023  
Signature Date

For: FAA Approved Repair Station # C.R.S X1IR595Y

Date	Make:	Hartzell				Reg. No	N836EA
	Model:	HC-E4N-3				Date:	9/27/2024
	Serial No.:	HH4714				W/O No.:	2451
	AFTT:	2516.8	PROP MAINTENANCE ENTRY			Hobbs:	2516.8
	TSNEW:	2516.8	TSOH:	848.8			
	Description of Work Accomplished.						
	<b>Inspections Completed:</b> * Completed an <b>Annual Inspection</b> IAW 14 CFR Part 43 Appendix D using the TBM850 MM Chapter 5-20-02 (Standard Program A Insp) and 5-20-05 (12 Month Special Checks) Inspection Check Lists as a guide. Engine Run and Ground Operational Checks were satisfactory * Completed an <b>A Inspection</b> using the TBM700 MM Chapter 5-20-02 (Standard Program A Insp) Check List as a guide. * Complied with 12 Month/600 Hour Beta Ring & Carbon Block dimensional check						
	<b>Approval for Return to Service</b> The article identified above was repaired and inspected in accordance with current FAA regulations and was found to be airworthy and is approved for return to service. Pertinent details of the work performed are on file at this agency under this work order.						
	Authorized Signature		 Joseph B Averett 2740243 IA/AP				
	Hancock Aviation LLC 4409 Chuck Yeager Avenue Baton Rouge, LA 70807			Phone: (225) 800-2359 Fax: (225) 224-6211 Email: info@hancockaviation.com Web: www.hancockaviation.com			