

# AIRCRAFT TECHNICAL LOGS

## Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N889DS
2. Manufacturer's Designation DA 40
3. Manufacturer's Serial Number 40.889
4. Type Approval or Specification Number A-224/A47CE
5. Date of Manufacture 2007
6. Aircraft Inspection Cycle \_\_\_\_\_

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD	0	0	0	0

**ENGINEERING RECORD**

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE RECORD

AIRCRAFT NEW WITH MT-PROPELLER ENTWICKLUNG GmbH MODEL NO MTV-12-B/183-59b INSTALLED AS PER TCCA STC NO. SA06-52, GARMIN G1000 INTEGRATED AVIONICS SYSTEM INSTALLED AS PER FAA STC. SA01254WI AMEND. 1, GARMIN GFC 700 AUTOMATIC FLIGHT CONTROL SYSTEM INSTALLED AS PER FAA STC NO. SA01389WI, GARMIN UPGRADE OF G1000 AND GFC 700 AFCS SOFTWARE AND OPTIONAL WAAS HARDWARE UPGRADES AS PER FAA STC NO. SA01444WI-D, POWERFLOW SYSTEMS INC. TUNED EXHAUST SYSTEM INSTALLED AS PER FAA STC NO. SA03281AT, AMSAFE INFLATABLE RESTRAINT SYSTEM INSTALLED AS PER FAA STC NO. SA01918LA.

DA  
Q 42



**DIAMOND AIRCRAFT INDUSTRIES INC.**  
D.O.T. APPROVED MANUFACTURER #161-93



I certify that the ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with Standard 571, Appendix F F.A.R. 91:217: & F.A.R. 91:413

SERIAL NUMBER

REGISTRATION MARK

DATE

INSPECTOR

40.889

N889DS

24 January, 2008

DA  
Q 42



23 January 2008 S/N 40.889  
COMPASS DEVIATION, ALL ELECTRICS ON

FOR	N	30	60	E	120	150
STEER	360	030	060	089	120	150
FOR	S	210	240	W	300	330
STEER	180	210	240	269	300	330



INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS

DATE

INSPECTOR

24 January, 2008

Mark Turkey

DA  
Q 5






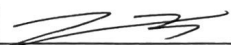







JAN 24 2008	0	0	0	0	AIRCRAFT SERVICEABLE FOR FLIGHT
JAN 24 2008				1.2	
JAN 25 2008				1.2	AIRCRAFT SERVICEABLE FOR FLIGHT
JAN 25 2008				2.5	
JAN 25 2008				2.8	
JAN 25 2008				3.8	
JAN 31 2008				3.8	AIRCRAFT SERVICEABLE FOR FLIGHT
JAN 31 2008				4.5	
FEB 04 2008				4.5	ALL DISCREPANCIES RECTIFIED
				4.5	CARRIED FORWARD

# ENGINEERING RECORD

REQUIRED FOR COMPLE  
 NG GmbH MODEL  
 TC NO. SA06-52,  
 STALLED AS PER  
 AUTOMATIC  
 STC NO.  
 700 AFCS  
 RADES AS PER  
 INC. TUNED  
 SA03281AT,  
 AS PER FAA

Include Reporting  
 in accordance with  
 F.A.R. 91:413  
 TOR  
 DA  
 Q 42

CONTROLS  
 R  
 Key

INSPECTION, REPAIRS & REPLACEMENT	SIGNATURE	LICENCE NUMBER
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.		
 <p>I certify that the Static Pressure system has been inspected and tested in accordance with Standard 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411</p> <p>DATE: 24 January, 2008      INSPECTOR:  <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span></p>		
 <p>The ELT was tested and inspected in Accordance with Standard 571, Appendix G of the Airworthiness Manual and F.A.R. 91:207(d)</p> <p><b>ANNUAL INSPECTION DUE: JANUARY 2009</b>  <b>BATTERY DUE: FEBRUARY 2010</b></p> <p>DATE: 24 January, 2008      INSPECTOR:  <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span></p>		
 <p>DIAMOND AIRCRAFT INDUSTRIES INC.                  D.O.T. APPROVED MANUFACTURER #161-93</p> <p>THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS) AND IS SERVICEABLE.</p>		
		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span>
		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span>
		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span>
		<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">DA Q 42</span>

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
			4.5		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPL.
BROUGHT FORWARD					



**DIAMOND AIRCRAFT INDUSTRIES INC.**  
D.O.T. APPROVED MANUFACTURER #161-93

I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO THE APPROVED TYPE DESIGN DATA AND IS IN A FIT AND SAFE STATE FOR FLIGHT.

DATE

FEB 04 2008

INSPECTOR

*[Signature]* DA  
Q 42



Date: March 24, 2008

WO#: RO-08-063 S/N: 40.889 Reg #: N889DS TTAF: 4.5 hrs.

The Following work has been carried out:  
Elevator control rod bushing P/N BU1-10-06-090C and washer P/N DA4-2733-00 replaced. New bushing P/N BU1-10-06-0100C, new washer P/N 001-1101-599 installed.  
Precision MSB PRS-107/AD2008-06-51 complied with, RSA servo S/N 70C89505 inspected. No defect noted. Next due in 50 hrs flying time or next and every oil change.

I HAVE CARRIED OUT AN INDEPENDENT CHECK OF THE FLIGHT CONTROLS AFFECTED BY THE WORK ACCOMPLISHED.

Signature *B. Babler* Lic or Stamp DA  
RO12

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature *[Signature]* Lic or Stamp DA  
RO17



Date: March 31, 2008

WO#: RO-08-115 S/N: 40.889 Reg #: N889DS TTAF: 4.5 hrs.

The Following work has been carried out:  
GIA # 1 unit has been replaced. GIA # 1 P/N 011-01105-00, S/N 68506333 removed and S/N 68506962 installed.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature *[Signature]* Lic or Stamp DA  
RO8

# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE NUMBER

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.


DA  
Q 42

 **Diamond**

U.S. Standard Airworthiness Certificate, issued:

(Date) FEB 06 2008, has been installed on  
aircraft on behalf of NE-MIDO-46 on:

(Date) FEB 06 2008

(Print) R. Salton (Signature) 



# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD			5	0
APR 04 2008	-	-	5	0

ENGINEERING RECORD  
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE RECORD

I find that this aircraft meets the requirements for the certification requested and have issued a (Standard) (Special) Airworthiness Certificate dated: April 2, 2008  
The next annual inspection is due: April 2009  
Signed: Daryl L. Middlebrook  
**DARYL L. MIDDLEBROOK**  
Federal Aviation Administration  
Designated Airworthiness Representative: DART950010EA

**Diamond**  
Date: April 2, 2008, 2008  
RO-08-119 S/N: 40.889 Reg #: N889DS TTAF: 4.5 Hrs  
The following work has been carried out:  
NLG removed I.A.W. chapter 32 of the current DA40 M.M. to facilitate inspection of the "T" panel knurled and PAF bushings. NLG re-installed I.A.W. chapter 32 of the DA40 M.M. Bushing play checked and found to be satisfactory.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: [Signature] Lic or Stamp: DA RO6

**Diamond**  
Date: April 4, 2008  
RO-08-124 S/N: 40.889 Reg: N889DS TTAF: 5.0 Hrs  
The following work has been carried out: COFT 40.889-01  
Garmin experimental software installed and function checked. RH wing removed to facilitate replacement of the RH fuel tank fuel qty. probe. Fuel qty. probe P/N 3010011-WIP, S/N 118113 removed, new S/N 118299 installed. Wing reinstalled. Fuel qty. calibration check C/W. Fuel leak check C/O. No leaks detected. Amsafe front seat belts diagnostic check C/O. Wing root seal reinstalled.

I HAVE CARRIED OUT AN INDEPENDENT CHECK OF THE FLIGHT CONTROLS AFFECTED BY THE WORK ACCOMPLISHED.

Signature: Brian Hallerstein Lic or Stamp: DA RO12

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: [Signature] Lic or Stamp: DA RO6

AIRCRAFT IS SERVICEABLE For Flight

CARRIED FORWARD

# AIR TIME AND LOG

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

MAKE: Diamond  
 MODEL: DA-40XLS  
 S/N: 40.889  
 REG. NO: 889DS  
 WORK ORDER:  
 1999-04-2008



**Premier Aircraft Service, Inc.**  
 5540 NW 23rd Avenue Hanger 14  
 Fort Lauderdale, FL 33309  
 Phone: (954) 334-2393

DATE: 4/29/2008  
 A/C TSN: 14.9  
 TACH: 14.9

**Airframe Entries**

REMOVED BURNT LAMP AND REPLACED WITH NEW A508-28 BULB.... REPLACED SHEERED RIVETS ON NUT PLATE IN RIGHT WHEEL AXLE... C/W 100HR INSPECTION ON THIS AIRFRAME IAW FAR 43 APPENDIX d AND DIAMOND DA-40 MM CH 5 100 HOUR INSPECTION GUIDE CHAPTER 5.C/W FAR 91.207 d ELT INSPECTION AND FUNCTIONAL CHECK.  
 A&P 2738632  
 MECH CHRISTOPHER BARCENAS

SIGN: *ew*  
 I certify this aircraft has been inspected in accordance with an Annual inspection and found to be in airworthy condition on this date. Approved for return to service on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

DATE: 4/29/2008

SIGNED: *Jack Wesley Dale*  
 Jack Wesley Dale, IA: 456967085

Work Order: 1999-04-2008  
 Printed by EBis 3 (datcomedia.com)

Date 4/29/2008 Reg. # N889DP  
 Aircraft Make/Model DIAMOND DA-40  
 Serial # 40.889 A/C T.T. 14.9  
 I find that this aircraft meets the requirements for the certificate requested and have issued a STANDARD Airworthiness Certificate Dated 4/29/08 Next Insp. Due 10/29/08

*Curtis Yeagle*  
 DART-200046-SO

6-4-08	20	7	20	7	Removed & replaced static wick w/ part # 16630 Reiki Saeki A&P 279449553
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CARRIED FORWARD



# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					



**SPECIAL SERVICES CORPORATION**  
THE BEST APPROACH TO PREVENTIVE MAINTENANCE SERVICES

**7/23/2008**

**N889DS**

SN: 40.889

**HOBBS 35.3**  
**Tach 25.1**

- \* Complied with 25hr. and 50hr. Inspection items.
- \* Complied with AD 2008-08-14 by replacing gasket P/N 2577258 IAW Precision Airmotive MSB PRS-107. Installed new gasket under plug on fuel regulator and torqued to 100 in/lbs and saftied. No leaks found. No more action required for AD 2008-08-14 due to completing SB.
- \* Removed propellor and sent to Sensenich Propellor Service (S46R346N) for repair of chip on trailing edge of blade. Replaced O-ring, re-installed propellor, torqued, and saftied propellor bolts. Leak check and ops check of prop satisfactory.
- \* Saftied emergency power switch with copper breakaway wire.

*Paul McAuler*

**A&P 3060798**



**SPECIAL SERVICES CORPORATION**  
THE BEST APPROACH TO PREVENTIVE MAINTENANCE SERVICES

**7/23/2008**

**N889DS**

SN:40.889

**HOBBS 35.3**

**TACH 25.1**

- \* Complied with Garmin Service Alert 0824-Inspection of the CRS/Baro knobs. No defects noted.

*Paul McAuler*      **A+P 3339040**

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

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

*Paul McAuler*      **IA 3339040**

*5/5/2009*  
*Hobbs 70.9*  
*Tach 53.8*

CARRIED FORWARD

# ENGINEERING RECORD



**N889DS**  
SN:DA40.899

\* Remove  
SN G08



\* Rel

1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2.	
<b>AUTHORIZED RELEASE FORM</b>			
4. Organizations Name and Address: <b>Diamond Aircraft Industries Inc. 1560 Crumlin Sideroad London, Ontario N5V 1S2</b>			
6. Item: <b>1</b>	7. Description: <b>Safety Walk, RH DA42 (LH-DA40)</b>	8. Part Number: <b>D60-1127-10-52_1</b> Revision No. <b>C</b>	9. Quantity
12. Remarks: <b>Customer Reference ADAM</b>			
13a. Certifies that the items identified above were manufactured in conformity to:			
<input checked="" type="checkbox"/> Approved design data and are in condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 12.			
13b. Signature <i>[Signature]</i>		13c. Approval Organization Number	
14a. <input checked="" type="checkbox"/> CAR <input type="checkbox"/> Other		14b. Signature	
Certifies that unless otherwise noted and described in Block 12, the items are in accordance with the applicable Canadian Aviation Regulations.			

I certify the ATC tr  
by FAR 91.413 we  
comply with FAR 43, ...  
Make Garmin Model GTX 33 S/N 89105802  
Details of this inspection are on file at this repair  
station on WO# 043910 dated 4-22-2010  
Signed *[Signature]* 2349252 for  
Powell Avionics, Inc. Fayetteville, NC  
R/S PL4R444M

**N889DS**

I certify that the altimeters, each automatic pressure  
altitude reporting system and static system have been  
inspected and tested as required by FAR 91.411.  
The altimeter has been tested to 20,000 ft.  
The Garmin GDC 74A has been tested to 20,000 ft.  
Details are on file under WO# 043910 dated 4-22-2010  
Signed *[Signature]* 2349252 for  
Powell Avionics, Inc. Fayetteville, NC  
R/S PL4R444M

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					



N Number	Date	TACH/HOBBS	AFTT
N889DS	4/28/2010	101.5	101.5

**AF Entry**

Performed annual inspection on this aircraft in accordance with FAR 43 appendix D. Checked all controls for proper rigging and lubricated. Checked all cables for proper tension, checked all structural points, inspected all hoses, lines and wiring. Repacked all wheel bearings, checked tires, wheels and brakes for condition. Inspected ELT in accordance with FAR 91.207(d) next due 04/2011, battery replacement date 02/2013. Installed emergency battery PN D60-2560-91-00, next due replacement 04/2012. Performed weight check on cockpit fire extinguisher per MFG label on NAFFP-10. Checked and serviced all fluid levels, lubricated controls and washed aircraft. Checked MFG SB's to date. Checked applicable AD's for compliance to date. All work performed in accordance with Diamond service manual and standard practice as listed in FAR part 43 to return this aircraft to service in airworthy condition. Refer to WO#G01919 on file at Dillon's Aviation, Inc. C/W AD 2009-10-14 nose landing gear by inspection per Diamond MSB 40-046/3 and MSB D4-046/3, next due 04/2011 or AFTT 301.5 whichever occurs later.

*Ladd J Maxson Jr*  
 Ladd J Maxson, Jr. For Dillon's Aviation, Inc.  
 AP3064381IA




N Number	Date	TACH/HOBBS
N889DS	4/28/2010	101.5

**Log Entry**

Updated G1000 system software to version 0321.22 in accordance with STC SA01444WJ-D with -1 configuration documented in Master Drawing List 005-00400-01 Rev. 7 and field update instructions, PN 190-00544-03 Revision 8. Unlocked TAWS, SVT, and Jepp Chart View. Weight and balance not affected. Refer to WO#G01919A on file at Dillon's Aviation, Inc.

*Ladd J Maxson Jr*  
 Ladd J Maxson, Jr. For Dillon's Aviation, Inc.  
 AP3064381IA


CARRIED FORWARD

# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft — N889DS** 8/3/2010

Tach Time 200.1 Total Time 200.1 TSOH:

AD 10-17-08 NA has Lyc engine Operation check of ELT PER FAR 91.207 ParaD checked controls and control linkages,

I certify that this aircraft has been inspected in accordance with an  
 100 hour Airframe Inspection and has been determined to be airworthy  
 condition.

A & P 1750321

Signature: Thomas a Guntly

**Guntly Aircraft — N889DS** 10/24/2010

Tach Time 302.6 Total Time 302.6 TSOH:

AD 10-17-08 NA has Lyc engine Operation check of ELT PER FAR 91.207 ParaD checked controls and control linkages, checked controls control linkage, and control surfaces CW AD09-07-14 by inspection found no voids beyond limits CW AD 09-10-04 by nose gear inspection with dye checkdue next in 200 hours

I certify that this aircraft has been inspected in accordance with an  
 100 hour A F Inspection and has been determined to be airworthy  
 condition.

A & P 1750321

Signature: Thomas a Guntly

Dec 6 Replace Inner Tube  
 on left main with new  
Thomas Guntly A & P 1750321

**Guntly Aircraft — N889DS** 12/12/2010

Tach Time 315.1 Total Time 315.1 TSOH: 8

Operation check of ELT PER FAR 91.207 Para D checked controls and control linkages, Completed annual inspection per Diamond inspection check llist.

I certify that this aircraft has been inspected in accordance with an  
 Annual Inspection and has been determined to be airworthy  
 condition.

IA 1750321

Signature: Thomas a Guntly

**Guntly Aircraft — N889DS** 4/18/2011

Tach Time 402.7 Total Time 402.7 TSOH:

Operation check of ELT PER FAR 91.207 Para D checked controls and control linkages, Completed annual inspection per Diamond inspection check llist.

I certify that this Aircraft has been inspected in accordance with an  
 Annual Inspection and has been determined to be airworthy  
 condition.

IA 1750321

Signature: Thomas a Guntly

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	

**BROUGHT FORWARD** **Guntly Aircraft — N889DS** 5/30/2011

Tach Time 476.5 Total Time 476.5 TSOH: 0

comp 1-78/80 2-78/80 3-77/80 4-77/80 changed oil and installed new filter filled with Aeroshell 15W50 oil filter inspected found no metal checked intake and exhaust systems, checked heat muff, checked controls and control linkages.

I certify that this Aircraft AD 09-10-01 by Thomas A Guntly has been inspected in accordance with an  
100 hour Eng Inspection and has been determined to be airworthy condition.

A&P 1750321 Signature: Thomas A Guntly

Dye ch due 200 HRS.

N889DS  
s/n 40.889

St. Cloud Aviation  
1544 45th Ave. SE  
St. Cloud, MN 56304

May 26, 2011  
HM: 0592.5

Replaced nose wheel inner tube, Goodyear p/n 302-013-400.

Ronald Redmond A&P 3374420

7-17-11	Tack	523.1	Changed oil & filter inspected Filter found clean, filled with Aeroshell 15W50 oil <u>Thomas Guntly A&amp;P 1750321</u>
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**Guntly Aircraft — N889DS** 8/2/2011

Tach Time 575.9 Total Time 575.9 TSOH:

Operation check of ELT PER FAR 91.207 Para D checked controls and control linkages, Completed 100 hour inspection per Diamond inspection check list. AD 10-25-01 NA by SN

I certify that this engine has been inspected in accordance with an  
100 hour airframe Inspection and has been determined to be airworthy condition.

A&P 1750321 Signature: Thomas A Guntly

9-26-11 Tach 650.2 replaced prop  
with new Hartzell see 337 Thomas Guntly A&P 1750321  
Run up ok

# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT  
 ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft** — **N889DS** 10-2-11  
 Tach Time 653.20 Total Time \_\_\_\_\_ 0 TSOH: \_\_\_\_\_ 0

replaced both main tires and tubes with new dressed prop & painted

*Thomas A Guntly*

A 4P 1750321

**Guntly Aircraft** — **N889DS** 10/10/2011  
 Tach Time \_\_\_\_\_ 668.4 Total Time \_\_\_\_\_ 668.4 TSOH: \_\_\_\_\_ 0

Operation check of ELT PER FAR 91.207 Para D checked controls and control and pully's Operation check of ELT PER FAR 91.207 Para D checked controls and control linkages, Completed 100 hour inspection per Diamond inspection check llist.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and has been determined to be airworthy condition.

Signature: *Thomas A Guntly*  
 IA 1750321

**Guntly Aircraft** — **N889DS** 1/12/2012  
 Tach Time \_\_\_\_\_ 768 Total Time \_\_\_\_\_ 768 TSOH: \_\_\_\_\_

Operation check of ELT PER FAR 91.207 Para D checked controls and control and pully's checked controls and control linkages, Completed 100 hour inspection per Diamond inspection check llist. Installed new brake pads CW AD 08-14-07 by inspection of engine fuel injection lines.

I certify that this aircraft has been inspected in accordance with an 100 hour airframe Inspection and has been determined to be airworthy condition.

Signature: *Thomas A Guntly*  
 A 4P 1750321

**Guntly Aircraft** — **N889DS** 3/28/2012  
 Tach Time \_\_\_\_\_ 861 Total Time \_\_\_\_\_ 861 TSOH: \_\_\_\_\_

Operation check of ELT PER FAR 91.207 Para D checked controls and control and pully's checked controls and control linkages, Completed 100 hour inspection per Diamond inspection check llist. Installed new brake pads

*76-04* CW AD 08-14-07 by inspection of engine fuel injection lines: AD 11-24-10 not applicable, no AC. Replaced all three tires with new Michelin cleaned inspected and greased wheel bearings

I certify that this aircraft has been inspected in accordance with an 100 hour airframe Inspection and has been determined to be airworthy condition.

Signature: *Thomas A Guntly*  
 A 4P 1750321

*ELT BOTH GOOD  
-2-13*

# AIR TIME AND

Riegelman Aviation Co., LLC  
 "serving the Midwest"  
 Ph. (715) 686-7523  
 Cell (262) 994-6706

Mobile service to fit any schedule

FAA CRS # RN7R687Y

N # 88905

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16	
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	90	110	
ACTUAL	5	10	10	10	15	20	20	20	0	25	30	30	30	40	0	45	
ERUCTION																	
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)							
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99
ACTUAL	50	50								22	18	13	8	0	10	15	20
ERUCTION																	
HYSTERESIS (TOL. ± 75 FT.): MAX.	50%			40%			AFTER EFFECT (TOL. 30 FT.):				CASE LEAK:						
	0			0			OK				OK						

ALTIMETER MAKE: GARMIN      BLIND ENCODER MAKE: \_\_\_\_\_  
 MODEL: GDC 74A                      MODEL: \_\_\_\_\_  
 S/N: 47808358                      S/N: 89105802

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411.  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.

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 are on file at this agency under the following work number.

Date: 4-22-12    Tech/Hobb: 1134    W.O. 1416    Signed: [Signature]

Riegelman Aviation Co., LLC  
 "serving the Midwest"  
 Ph. (715) 686-7523  
 Cell (262) 994-6706

Mobile service to fit any schedule

FAA CRS # RN7R687Y

N # 88905

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16	
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	90	110	
ACTUAL	5	5	10	10	15	20	20	25	40	20	10	10	20	30	60	45	
ERUCTION																	
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)							
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99
ACTUAL	50	50								50	12	2	0	7	7	15	
ERUCTION																	
HYSTERESIS (TOL. ± 75 FT.): MAX.	50%			40%			AFTER EFFECT (TOL. 30 FT.):				CASE LEAK:						
	20			15			20				OK						

ALTIMETER MAKE: UNITED      BLIND ENCODER MAKE: \_\_\_\_\_  
 MODEL: 5934 PD-3                      MODEL: \_\_\_\_\_  
 S/N: 463415                      S/N: \_\_\_\_\_

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411.  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.

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 are on file at this agency under the following work number.

Date: 4-23-12    Tech/Hobb: 1134    W.O. 1416    Signed: [Signature]

# ENGINEERING RECORD

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

949.8 *TH*

6-2-12 Tach ~~549.8~~ cw 100 Hour  
 checked cables, pulley's controls, control  
 surfaces, structure, changed brake pads, with  
 new T certify This aircraft has been inspected  
 In accordance with an 100 Hour inspection and  
 has been determined to be in airworthy  
 condition Thomas a Lundy AIP 1750371

8-3-12 Tach & ft 1037.8  
 Replaced boost pump with new  
 welder, operation check OK  
 Thomas a Lundy AIP 1750321

**Guntly Aircraft — N889DS** 8/8/2012

Tach Time 1049.7 Total Time 1049.7 TSOH:  
 Operation check of ELT PER FAR 91.207 Para D ELT battery  
 replacement date Feb 2013 checked controls and control linkages,  
 Completed Annual inspection per Diamond inspection check list.

I certify that this aircraft has been inspected in accordance with an  
 Annual Inspection and has been determined to be airworthy  
 condition.

Signature: *Thomas a Lundy*  
 IA1750321

Sept 6 2012 Tach 1079.1 Replaced  
 defective stall worn horn with  
 new Thomas a Lundy AIP 1750324

**Guntly Aircraft — N889DS** 9/18/2012

Tach Time 1098.4 Total Time 1098.4 TSOH:  
 changed oil & filter filled with Aeroshell 15W50 oil filter inspected  
 found no metal run up OK.

Signature: *Thomas a Lundy*  
 AIP 1750321



# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

**Guntly Aircraft** — **N889DS** 11/1/2012

Tach Time 1142.4 Total Time 1142.4 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date Feb 2013 checked controls and control linkages, Completed Annual inspection per Diamond inspection check list. Installed new Michelin main 6 PR tire

I certify that this aircraft has been inspected in accordance with an  
 100 hour Inspection and has been determined to be airworthy  
 condition.

A&P 1750371 Signature: Thomas A. Guntly

12-27-12 Tach 1182.3 Replaced tail pipe support strap with new  
Thomas Guntly A&P 1750371

3-27-13 Tach 1203.6 Replaced ELT Batt pack with new next Replace date - 3-2020 open per instruction & per FAR 91.207 para D Thomas Guntly A&P 1750371

ACR ELECTRONICS **N889DS**  
 Artex Products - CAGE Code 60253  
 Fort Lauderdale, FL 33312

LOG BOOK ENTRY \_\_\_\_\_  
 E.L.T. BATTERY REPLACEMENT DATE Mar - 2020

**Guntly Aircraft** — **N889DS** 4/5/2013

Tach Time 1239 Total Time 1239 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date mar 2020 checked controls and control linkages, Completed inspection per Diamond inspection check list.

I certify that this aircraft has been inspected in accordance with an  
 100 hour Inspection and has been determined to be airworthy  
 condition.

A&P 1750371 Signature: Thomas A. Guntly

**Guntly Aircraft** — **N889DS** 7/9/2013

Tach Time 1332.8 Total Time 1332.8 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date Feb 2013 checked controls and control linkages, Completed Annual inspection per Diamond inspection check list.

I certify that this aircraft has been inspected in accordance with an  
 Annual Inspection and has been determined to be airworthy  
 condition.

A&P 1750371 Signature: Thomas A. Guntly

# ENGINEERING RECORD

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

**Guntly Aircraft** — **N889DS** 8/14/2013

Tach Time 1382.1 ~~1343.7~~ Total Time 1382.1 ~~1343.7~~ TSOH:

Replaced main tires with new Michelin cleaned, and greased wheel bearings reinstalled, checked brakes. *Thomas a Guntly* #A+P 1750321

**Guntly Aircraft** — **N889DS** 9/11/2013

Tach Time 1428 Total Time 1428 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date Feb 2013 checked controls and control linkages, Completed 100 hour inspection per Diamond inspection check list.

I certify that this Aircraft has been inspected in accordance with an 100 hour AF Inspection and has been determined to be airworthy condition.

A+P 1750321 Signature: *Thomas a Guntly*

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Cell (262) 994-6706

*PFD*

FAA CRS # RN7R687Y

N # 889DS

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16	
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	90	110	
ACTUAL FRICTION	15	0	15	0	0	10	15	0	0	10	15	0	20	25	0	30	
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)							
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99
ACTUAL FRICTION	35	0	0	0	0	0	0	0	0	12	10	8	5	0	7	7	6
HYSTERESIS (TOL. ± 75 FT.): MAX. 50% 0 40% MAX. 0										AFTER EFFECT (TOL. 30 FT.): OK		CASE LEAK: OK					

ALTIMETER MAKE: GARMIN BLIND ENCODER MAKE: \_\_\_\_\_ TRANSPONDER MAKE: GARMIN  
 MODEL: GDC 24A MODEL: \_\_\_\_\_ MODEL: GTX 33  
 S/N: 47808358 S/N: \_\_\_\_\_ S/N: 89105802

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.

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 are on file at this agency under the following work number.  
 Date: 8-4-14 Tech/Hobb: 1911 W.O. 1779 Signed: *Thomas a Guntly*

8-4-16 Tach & TT 2672.3 Replaced canopy support assembly with new from Diamond op ok ok *Thomas a Guntly* A+P 1750321

# AIR TIME AND

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STABY FAA CRS # RN7R687Y

N # 889DS

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16		
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	80	90	100	110		
ACTUAL	15	15	0	15	15	18	18	10	15	10	30	30	30	30	40	45		
FRICION																		
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)								
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99	
ACTUAL	120	130	140	155	180	205	230	255	280	13	15	0	18	0	11	15	16	
FRICION																		
HYSTERESIS (TOL. ± 75 FT.): MAX.										50% MAX. 15		40% MAX. 10		AFTER EFFECT (TOL. 30 FT.): 10			CASE LEAK: OK	

ALTIMETER MAKE: <u>UNITED</u>	BLIND ENCODER MAKE: <u>                    </u>	TRANSPONDER MAKE: <u>                    </u>
MODEL: <u>5934MD-3</u>	MODEL: <u>                    </u>	MODEL: <u>                    </u>
S/N: <u>463415</u>	S/N: <u>                    </u>	S/N: <u>                    </u>

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO \_\_\_\_\_ FT. TO COMPLY WITH FAR 91.411  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.  
 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 are on file at this agency under the following work number.  
 Date: 1-4-14 Tech/Hobb: 1911 W.O. 1779 Signed:                     

<u>3-7-14</u>	<u>Replaced left wing</u>				
<u>Fact 1911</u>	<u>ZIP ASSY</u>	<u>PN DA4-5731-00-00-CSI</u>			
<u>Hobb</u>	<u>with new</u>	<u>Thomas Smith Asp 1750321</u>			
<u>3-17-14</u>	<u>Installed new 24V Battery</u>				
<u>Hobb 1911.</u>	<u>Concord RG 24-15M</u>	<u>Thomas Smith Asp 1750321</u>			

**Guntly Aircraft — N889DS** 4/29/2014

Tach Time 1525.8 Total Time 1525.8 TSOH:                     

Installed new ELT batteey pack Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date MAR 2020 checked controls and control linkages, Completed Annual inspection per Diamond inspection check llist. Installed new brake pads

I certify that this aircraft has been inspected in accordance with an Annual Inspection and has been determined to be airworthy condition.

Signature: Thomas Smith

CARRIED FORWARD

# ENGINEERING RECORD

**Guntly Aircraft — N889DS** 9/29/2014

Tach Time 1627.2 Total Time 1627.2 TSOH: 0

installed new brake pads topped brake system with 5606 fluid  
Operation check of ELT PER FAR 91.207 Para D ELT battery  
replacement date March 2020 checked controls and control  
linkages, Completed Annual inspection per Diamond inspection  
check llist.

I certify that this aircraft has been inspected in accordance with an  
Annual Inspection and has been determined to be airworthy  
condition.

Signature: Thomas Guntly  
A & P 1750321

SIGNATURE

LICENCE  
NUMBER

**Guntly Aircraft — N889DS** 12/10/2014

Tach Time 1710.9 Total Time 1710.9 TSOH: 0

change oil and filter, inspected filter no metal found run up OK  
tightened mike and head phone jacks, secured cam lock for winter  
front receptacle, Thomas Guntly A & P 1750321

**Guntly Aircraft — N889DS** 1/22/2015

Tach Time 1725.5 Total Time 1725.5 TSOH:

installed new brake pads new brake discs and new main tires  
Operation check of ELT PER FAR 91.207 Para D ELT battery  
replacement date March 2020 checked controls and control  
linkages, Completed Annual inspection per Diamond inspection  
list.

I certify that this aircraft has been inspected in accordance with an  
100 hour airframe Inspection and has been determined to be airworthy  
condition.

Signature: Thomas Guntly  
A & P 1750321

**Guntly Aircraft — N889DS** 1/12/2015

Tach Time 1727.5 Total Time 1727.5 TSOH:

removed right mag shipped to CRS for 500 hour Inspection CRS  
KC2R947K WO 4976800 invoice 20150136 reinstalled aft mag  
inspection completed run up OK Thomas Guntly A & P 1750321

**Guntly Aircraft — N889DS** 3/19/2015

Tach Time 1818 Total Time 1818 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery  
replacement date March 2020 checked controls and control  
linkages, Completed Annual inspection per Diamond inspection  
check llist.

I certify that this aircraft has been inspected in accordance with an  
100 hour airframe Inspection and has been determined to be airworthy  
condition.

Signature: Thomas Guntly  
A & P 1750321

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

**Guntly Aircraft — N889DS** 6/1/2015

Tach Time 1913.8 Total Time 1913.8 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date MAR 2020 checked controls and control linkages, Completed Annual inspection per Diamond inspection check list.

I certify that this aircraft has been inspected in accordance with an annual 100 hour inspection and has been determined to be airworthy condition.

Adp 1750321 Signature: Thomas a Guntly  
ZA

**Guntly Aircraft — N889DS** 7/2/2015

Tach Time 1969 Total Time 1969 TSOH:

replace left aft facing bulb with new of ch ok ADP Thomas a Guntly Adp 1750321

TNT Airworks, LLC  
11038 HWY 37  
Box 4, Hanger D  
Hibbing, MN 55746  
(218) 263-4238

Airframe Log  
N889DS  
03-31-2015

Tach: 1830.3  
Hobbs: 2303.0

Removed existing alternator, part number ALU- 8521LS, serial number H-094622 due to internal failure and installed new alternator, part number ALU-8521LS, serial number H-0071298. Engine run-up, alternator function checked satisfactory.

Thomas D. Carlson 3026196 A & P

7-14-15	Tach	1918.6	TT	Replaced strobe bulb and power supply, left wing replaced with new <u>Thomas &amp; Guntly Adp 1750321</u>
7-14-15	CW SB	adding	5 stiffener	Carbon fibre to aft spar under rear seat <u>ADP 1750321</u>

**Guntly Aircraft — N889DS** 7/25/2015

Tach Time 1956.7 Total Time 1956.7 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date MAR 2020 checked controls and control linkages, Completed Annual inspection per Diamond inspection check list.

I certify that this aircraft has been inspected in accordance with an 100 hour inspection and has been determined to be airworthy condition.

Adp 1750321 Signature: Thomas Guntly

ow ADP 93-05-06  
lubricated  
inspect due  
to 2000 Hrs  
ADP

# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER

Tach 2031.1 - 7-15 installed new spinner  
assy. Run up check OK Thomas Guntly ACP 1750371

**Guntly Aircraft — N889DS** 7/7/2015  
Tach Time 2031.1 Total Time 2031.1 TSOH: 0

Installed new spinner assembly PN 0550321-12 SN  
1503022/1503598 installed and torqued IAW Hartzell Installation  
instructions

Thomas Guntly ACP 1750321

**Guntly Aircraft — N889DS** 9/9/2015  
Tach Time 2113.4 Total Time 2113.4 TSOH:

installed new bulb TO flap position new bulb in flap up new aft white  
wing light bulbs op check OK D 40 Operation check of ELT PER  
FAR 91.207 Para D ELT battery replacement date MAR 2020  
checked controls and control linkages, Completed Annual  
inspection per Diamond inspection check list.

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

IA 1750321 Signature: Thomas Guntly

installed 2 new main tire & tubes, new Elect fuel pump.

**Guntly Aircraft — N889DS** 11/23/2015  
Tach Time 2217.6 Total Time 2217.6 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery  
replacement date MAR 2020 checked controls and control linkages,  
Completed Annual inspection per Diamond inspection check list.

I certify that this aircraft has been inspected in accordance with an 100 hour Inspection inspection and has been determined to be airworthy condition.

ACP 1750371 Signature: Thomas Guntly

**Guntly Aircraft — N889DS** 1/26/2016  
Tach Time 2275.1 Total Time 2275.1 TSOH:

Installed new strap on the tail pipe, muffler at firewall, installed new  
brake pads on right side.

Thomas Guntly ACP 1750321

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	

BROUGHT FORWARD

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STOBY

FAA CRS # RN7R687Y

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

N # 889DS

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16	
TOL. ± FT.	20	20	20	20	25	30	30	35	70	40	60	80	90	100	90	110	
ACTUAL	5	0	5	5	10	10	10	20	30	15	15	30	30	40	50	50	
FRICITION																	
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)							
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99
ACTUAL	55	50								7	5	3	5	0	1	1	6
FRICITION																	
HYSTERESIS (TOL. ± 75 FT.): MAX.										50% MAX. <u>10</u>		40% MAX. <u>25</u>		AFTER EFFECT (TOL. 30 FT.): <u>20</u>		CASE LEAK: <u>OK</u>	

ALTIMETER MAKE: UNITED      BLIND ENCODER MAKE: \_\_\_\_\_      TRANSPONDER MAKE: \_\_\_\_\_  
 MODEL: 5934PD-3      MODEL: \_\_\_\_\_      MODEL: \_\_\_\_\_  
 S/N: 463415      S/N: \_\_\_\_\_      S/N: \_\_\_\_\_

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.  
 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 are on file at this agency under the following work number.  
 Date: 1-29-16 Tech/Hobb: 2823.1 W.O. 2050 Signed: [Signature]

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PFD

FAA CRS # RN7R687Y

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

N # 889DS

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16	
TOL. ± FT.	20	20	20	20	25	30	30	35	70	40	60	80	90	100	90	110	
ACTUAL	5	10	10	10	5	10	10	10	0	10	15	10	20	30	0	35	
FRICITION																	
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)							
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99
ACTUAL	35	50								4	0	3	2	0	1	3	4
FRICITION																	
HYSTERESIS (TOL. ± 75 FT.): MAX.										50% MAX. <u>0</u>		40% MAX. <u>15</u>		AFTER EFFECT (TOL. 30 FT.): <u>OK</u>		CASE LEAK: <u>OK</u>	

ALTIMETER MAKE: GARMIN      BLIND ENCODER MAKE: \_\_\_\_\_      TRANSPONDER MAKE: GARMIN  
 MODEL: GDC 74A      MODEL: \_\_\_\_\_      MODEL: GTX 33  
 S/N: 47808358      S/N: \_\_\_\_\_      S/N: 89105802

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.  
 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 are on file at this agency under the following work number.  
 Date: 1-29-16 Tech/Hobb: 2823.1 W.O. 2050 Signed: [Signature]

CARRIED FORWARD

**Guntly Aircraft — N889DS**

3/3/2016

Tach Time 2312.4 Total Time 2312.4 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date MAR 2020 checked controls and control linkages, Completed inspection per Diamond inspection check llist. *OW AP*

I certify that this aircraft has been inspected in accordance with an 100 hour Inspection and has been determined to be airworthy condition.

*AP 1750321* Signature: Thomas Guntly

NATURE

LICENCE NUMBER

*4650116, 4650116*  
*#4376, 46-012 12 by*  
*final ck of*  
*Ign switch due*  
*next in 100 HRS*  
*see AD93 -05-06*

**Guntly Aircraft — N889DS**

5/20/2016

Tach Time 2408.9 Total Time 2408.9 TSOH: 0

installed new brake pads topped brake system with 5606 fluid Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date March 2020 checked controls and control linkages, 100 hour Completed inspection per Diamond inspection check llist. *installed May RH aftowl by CRS*

I certify that this aircraft has been inspected in accordance with an 100 hour Inspection and has been determined to be airworthy condition.

*AP 1750321* Signature: Thomas a Guntly

*N B 2 R 946K*  
*W 0 0 7 0 9 2 8 1 4*

**Guntly Aircraft — N889DS**

7/11/2016

Tach Time 2508.9 Total Time 2508.9 TSOH:

Installed Michelin 6PR tires on mains, installed new brake pads topped brake system with 5606 fluid Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date March 2020 checked controls and control linkages, 100 hour Completed inspection per Diamond inspection check llist.

I certify that this aircraft has been inspected in accordance with an 100 hour Inspection and has been determined to be airworthy condition.

*AP 1750321* Signature: Thomas a Guntly

**Guntly Aircraft — N889DS**

7/9/2016

Tach Time 2602.8 Total Time 2602.8 TSOH:

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date March 2020 checked controls and control linkages, 100 hour Completed inspection per Diamond inspection check llist.

I certify that this aircraft has been inspected in accordance with an Annual Inspection and has been determined to be airworthy condition.

*FA 1750321* Signature: Thomas a Guntly



# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	<b>Guntly Aircraft — N889DS</b>				11/4/2016
	Tach Time	2672.3	Total Time	2672.3	TSOH: 0
	replaced canopy support with new from Diamond <i>Thomas a Guntly A4P 1750321</i>				

<b>Guntly Aircraft — N889DS</b>		12/6/2016
Tach Time	2701.5	Total Time 2701.5 TSOH: 0
Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date March 2020 checked controls and control linkages, 100 hour Completed inspection per Diamond inspection check list. installede new brake pads op check OK		
I certify that this <u>aircraft</u> has been inspected in accordance with an 100 hour inspection and has been determined to be airworthy condition.		
A4P 1750321		Signature: <i>Thomas a Guntly</i>

WO# 384344  
Reg# N889DS  
Tach: 2752.8  
Hobbs: 3417.5

Date: 2/11/2017  
Aircraft SN: 40.889



Elliott Aviation of Des Moines, Inc  
2800 McKinley Ave  
Des Moines, IA 50321

### Airframe Log Entry

**Maintenance Action:**

1) Removed right main wheel assembly due to flat tire. Disassembled wheel, cleaned and inspected. Reassembled wheel assembly using original tire with customer supplied tube. Cleaned and repacked wheel bearings and installed wheel assembly on aircraft.

I certify this Aircraft is in airworthy condition with respect to the maintenance performed. All maintenance performed referencing the applicable manufacturer's maintenance manuals. Pertinent details of the repair are on file under the referenced work order.

Signed *John Ferrick* for Elliott Aviation of Des Moines, Inc. A & P No. 2850241  
John Ferrick

<b>Guntly Aircraft — N889DS</b>		4/24/2017
Tach Time	2799.9	Total Time 2799.9 TSOH:
Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date March 2020 checked controls and control linkages, 100 hour Completed inspection per Diamond inspection check list. installede new brake pads op check OK		
I certify that this <u>aircraft</u> has been inspected in accordance with an 100 hour inspection and has been determined to be airworthy condition.		
A4P 1750321		Signature: <i>Thomas a Guntly</i>

Tach Time 2894.3 Total Time 2894.3 TSOH: 0

Operation check of ELT PER FAR 91.207 Para D ELT battery replacement date March 2020 checked controls and control linkages, 100 hour Completed inspection per Diamond inspection check list. Changed main tires installed new 15X6X6 6 PR tires on mains, with new tubes

LICENCE NUMBER

INSPECT

ENTRIES. DRAW A DIAGONAL LINE

I certify that this aircraft has been inspected in accordance with an Annual Inspection and has been determined to be airworthy condition.

IA1750321 Signature: Thomas a [Signature]

Sept 24 Tach 2933.9 RT Strobe bulb replaced with new op ck ok Thomas a [Signature] IA1750321

Guntly Aircraft — N889DS 8/30/2017 Tach Time 2902.9 Total Time 0 TSOH: 0

Replaced boost pump with new, op CK OK Thomas a [Signature] IA1750321

Riegelman Aviation Co., LLC "serving the Midwest". Ph. (715) 686-7523 Cell (262) 994-6706

Mobile service to fit any schedule

FAA CRS # RN7R687Y

N # 889DS

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

Table with columns for TEST ALT. x 1000 FT. (-1 to 16) and rows for TOL. ± FT., ACTUAL FRICTION, TEST ALT. x 1000 FT. (18 to 30.99) and rows for TOL. ± FT., ACTUAL FRICTION, HYSTERESIS (TOL. ± 75 FT.): MAX. (50%, 40%), AFTER EFFECT (TOL. 30 FT.): OK, CASE LEAK: OK

ALTIMETER MAKE: GARMIN MODEL: GDC 79A S/N: 47808358 BLIND ENCODER MAKE: MODEL: TRANSPONDER MAKE: GARMIN MODEL: GTX 33 S/N: 89105802

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411. CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411. CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411. CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.

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 are on file at this agency under the following work number.

Date: 12-21-17 Hobb: 3714.1 W.O. 2258 Signed: [Signature]

OVER

# AIR TIME AND

Riegelman Aviation Co., LLC  
 "serving the Midwest"  
 Ph. (715) 686-7523  
 Cell (262) 994-6706

Mobile service to fit any schedule

STO BY FAA CRS # RN7R687Y

N # 889DS

BRO FOR

## ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16		
TOL ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	100	110		
ACTUAL	75	75	75	78	78	78	78	78	78	78	78	78	78	78	78	78		
ERUCTION																		
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)								
TOL ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99	
ACTUAL	48	50	50	50	50	50	50	50	50	7	0	7	2	0	7	7	6	
ERUCTION																		
HYSTERESIS (TOL. ± 75 FT.): MAX.										50% MAX. 75		40% MAX. 70		AFTER EFFECT (TOL. 30 FT.): OK			CASE LEAK: OK	

ALTIMETER MAKE: UNITED  
 MODEL: 5934PD-3  
 S/N: 463415

BLIND ENCODER MAKE: \_\_\_\_\_  
 MODEL: \_\_\_\_\_  
 S/N: \_\_\_\_\_

TRANSPONDER MAKE: \_\_\_\_\_  
 MODEL: \_\_\_\_\_  
 S/N: \_\_\_\_\_

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411  
 CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.  
 CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.  
 CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.  
 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 are on file at this agency under the following work number.  
 Date: 12-21-17 Tech/Hobb: 3714-1 W.O. 2258 Signed: [Signature]

CARRIED FORWARD

# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER

DeKalb Avionics  
(815)981-8284

Date: 2-10-22 N# 88905 Work order no: 2022-029

I certify that the static system checks required by 14 CFR Part 91.411 have been performed this date and filed to comply with 14 CFR part 43, appendix E Para A

  
Signed for CRS2WWR159D

DeKalb Avionics  
(815)981-8284

I Certify that the ATC Transponder Test and Inspections required by 14 CFR 91.413 were performed this date and found to comply with 14 CFR part 43 Appendix E para F

Transponder #1

Transponder #2

Make: Garmin  
Model: GTX 33  
Serial no: 89105802

Make: N/A  
Model: N/A  
Serial no: N/A

  
Signed for CRS2WWR159D

I certify that the automatic pressure altitude reporting system checks required by 14 CFR part 91.217 and 14 CFR part 91.411 have been performed and filed to comply with 14 CFR part 43 appendix E, para C

Encoder #1

Encoder #2

Make: Garmin  
Model: GDC 74  
Serial no: 47808358  
TXP SN: 89105802

Make: N/A  
Model: N/A  
Serial no: N/A  
TXP SN: N/A

  
Signed for CRS2WWR159D

Form 200-020

# AIR TIME AND

**ENGINEERING RECORD**  
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
HRS.	MIN.	HRS.	MIN.

**BROUGHT FORWARD**

**DeKalb Avionics**  
(815)981-8284


Alt Model: GDL74  
Alt Serial: 47808358

NH 88905  
WO# 2022-029

Alt Tested to: 20 000 ft

Date: 2-10-22

I certify that the altimeter checks required by 14 CFR 91.411 Have been performed this date and found to comply with with FAR part 43, Appendix E, Paragraph B

  
Signed for CRS2WWR159D

Location: PILOT

Alt Reads	Tol	Error	Alt Reads	Tol	Error
-1000	20	-20	14000	100	-80
0	20	-20	15000	105	N/A
500	20	-20	16000	110	-80
1000	20	-20	18000	120	-70
1500	25	-20	20000	130	-80
2000	30	-20	22000	140	
3000	30	-20	25000	155	
4000	35	-30	30000	180	
6000	40	-35	35000	205	
8000	60	-60	40000	230	
10000	80	-60	45000	255	
12000	90	-70	50000	280	
HY 50%	75	0	HY 40%	75	-70
After Effec	30	10			
	Scale Error				Pass
	Hysterresis				Pass
	After Effect				Pass
	Friction				Pass
	Case Leak				Pass
	Barometer Scale Error				Pass

Form 200-012 Issue No: 3

**CARRIED FORWARD**

Direct Action Aviation, LLC

Airframe

Aircraft: DA 40, N889DS S/N: 40.889 Date: 11/21/2022  
 Aircraft TT: 2996.2 Tach: 2996.2 Hobbs: 3714.9  
 Engine S/N: L 33891-51E Propeller S/N: NS3418  
 TTE: 2996.2 TTP: 2996.2  
 SOH: 0 SPOH UNK

ATURE	LICENCE NUMBER
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- 1 C/W CFR § 91.409 Annual Inspection
- 2 Installed Overhauled Engine IO 360 M1A SN: L 33891-51E. Overhaul Completed by Poplar Grove Airmotive CRS#: YYBR664L
- 3 Serviced engine with 8 Qts of Aeroshell 100 Mineral Oil.
- 4 completed engine leak check - No defects noted
- 5 Replaced ELT Battery PN: 452-6499
- 6 C/W CFR § 91.207 (d) Annual Inspection of ELT - No Defects Noted
- 7 Replaced PowerFlow Exhaust Downpipe Hardware, Neoprene Strap, Clamp PN: 8031D, and H/W Kits PNs: 10362, 10360
- 8 Replaced Brake Caliper piston O-Rings on Both RH and LH side calipers PN: MS28775-224.
- 9 Replaced Both RH and LH Brake Disks PN: 164-24400
- 10 Replaced Both RH and LH Brake linings PN: 06G-14100
- 11 Flushed/Bled Brake sys with MIL-H-5606 - Leak checked Brake sys - No Defects noted.
- 12 Blended Minor dings on Propeller Leading edge.
- 13 Replaced Grounding wires on Flap Control connection.
- 14 Replaced sections of SCAT tubing in engine area.
- 15 Rigged Alt. Air control cable connection.
- 16 Rigged Throttle, Mixture, and Propeller controls
- 17 Removed, cleaned and reinstalled Engine Air filter.
- 18 Replaced all tire Inner tubes PNs: N:5.00x5 - M:15/6.00-6
- 19 Replaced LH Nose wheel Bearing PN: 13889-20629
- 20 Installed repaired Altimeter PN: 5934PD-3A.656 SN: 467696
- 21 Installed Main Aircraft Battery PN: RG24-15M
- 22 C/W AD 2009-10-04 - Inspection Of Nose landing Gear Leg.
- 23 C/W AD 2009-07-14 - Inspection of adhesive Joint between the wing main spar caps and upper wing skins.
- 24 C/W AD 2015-19-07 - Fuel injector tubes and clamps.
- 25 C/W AD 2009-02-03 - RSA fuel Servo plug.

This Annual inspection was completed IAW the items listed in 14 CFR Part 43 Appendix D. All inspections, work, and repairs were completed using the appropriate Manufacturers Maintenance Manual, Structural repair manual, and standard practices. The Airframe, Powerplant, Propeller, and Appliances Identified above are hereby returned to service per the work performed.

Keith George A&P/IA 3174577

*909*

wo: LUK145-23006

Airframe - page 1 of 1



Airtech of Ohio, LLC. · 4765 Airport Rd · CINCINNATI, Ohio 45226 · CRS#: 5A8R960B

**N889DS**  
HOBBS: 3718.5

**DIAMOND AIRCRAFT IND INC, DA 40, S/N: 40.889**  
TACH: 2998.5

**March 20, 2023**

1. Complied with preliminary inspection. No discrepancies noted at this time.
2. Complied with 24-Month 91.411 and 91.413 IFR certification to 20,000ft in accordance with FAR 43 Appendix E and F. No discrepancies noted.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Airtech of Ohio, LLC. under work order: LUK145-23006.

Craig Harbeson CRS# 5A8R960B *[Signature]*

# AIR TIME AND

## ENGINEERING RECORD

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETING ENTRIES. DRAW

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.

BROUGHT FORWARD

Airframe Annual · page 1 of 2

wo: WO\_248



Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

**DIAMOND AIRCRAFT IND INC, DA 40, S/N: 40.889**  
TACH: 2998.5

July 18, 2023

**N889DS**  
HOBBS: 3718.7

1. C/W Annual Inspection in accordance with FAR 43 Appendix D using - Diamond DA40 AMM Section 05-28-50 as a guide.
2. C/W ELT Inspection IAW FAR 91.207(D).
3. ELT Battery Due: 12/2029.
4. Airworthiness Directives Checked through 2023-14: New AD 23-09-09 n/a affected equipment not installed. AD09-02-03 next due 50 hours or at oil change.
5. Installed correct battery box bolt. Installed P/N DIN931-M6X180-A4 - battery box bolt.
6. Installed correct screws in co-pilot seat inspection panel Installed P/N M5X16 - SEAT ACCESS PANEL SCREW SS.
7. Installed new compression pin in Pilot rudder Pedal actuator.safey wire.
8. Removed and replaced fail door latch gas compression spring with new on canopy door and passenger door. Installed (2) P/N D41-5211-60-91 - Compression gas spring.
9. Installed correct tail skid bolt.
10. C/W major structural inspection IAW Diamond DA40-180 AMM section 5-28-50.
11. C/W 1000 hour inspection IAW Diamond DA40-180 AMM section 5-28-50.
12. C/W 2000 hour inspection IAW Diamond DA40-180 AMM section 5-28-50.
13. Removed and replace Remote ELT battery with new. Installed P/N 28L - ELT REMOTE BATTERY DURACELL
14. Removed and replace Emergency Battery with new. MFG date Sep. 2022 Installed P/N DA4-2560-91-00. EMERGENCY BATTERY.

wo: WO\_248

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15. Removed and replaced EMA Controller with new. Next due 1/2030. Installed P/N 508358-421 - EMA CONTROLLER S/N: A20JAN23-49.
16. Removed and replaced inflators with new and installed with new fittings. Installed P/N 512847-401 - Inflator Assy w/ hose fitting S/N: Z7EF322D0136 Rev/Lot: RC2101011, Installed P/N 512847-401 - Inflator Assy w/ hose fitting S/N: Z7FF322D0056 Rev/Lot: RC2101011, Installed (2) P/N 20902-007 - Inflator To Hose Adapter 90 DEGREES.

I certify that this AIRFRAME has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO\_248.

Jeff Pleiman A/P I/A 3304319

Jeff Pleiman