# AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

## **AIRCRAFT**

1.	Nationality and Registration	NIZTUS
2.	Manufacturer's Designation	DA 42
3.	Manufacturer's Serial Number	42.AC127
4.	Type Approval or Specification Number	A-247/AS7CE
5.	Date of Manufacture	2008
6.	Aircraft Inspection Cycle	

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CARRIED FORWARD

DATE	TOT	LY	TIME	AL AIR E SINCE IFG.	ENGINEERING RECORD	INSPECTION, REPAIRS & REPLACEMENT SIGNATURE LICE
DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLE	TRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
BROUGHT -			5,	9		$\rightarrow$ $\sim$
FORWARD			D.O. I HEREBY	DIAMONIO.T. APPE	D AIRCRAFT INDUSTRIES INC. COVED MANUFACTURER #161-93  THAT THIS AIRCRAFT CONFORMS TO THE SIGN DATA AND IS IN A FIT AND SAFE STATE FOR FLIGHT.  INSPECTOR DA  Q 42	U.S. Standard Airworthiness Certificate, issued:  (Date) MAR 2 0 2008 ,has been installed in the sound of the standard of NE-MIDO-46 on:  (Date) MAR 2 0 2008
1 0 2008	ZH	CH:	5	. 9	Date: April 10, 2008 RO-08-138 S/N: 42.AC127 Reg: N127US TTAF: 5.9 hrs. The Following work has been carried out:	
					Minor fibreglass skin repair on LH outboard nacelle forward of the Aux, fuel tank filler door carried out by FRP department and paint finish carried out by paint department. All pertinent details of the work carried out are on file with this work order.  RH wing walk material replaced with new P/N D60-1127-10-52_1.  The maintenance described above has been performed in accordance with the applicable standards of airworthiness.  DIAMOND AIRCRAFT INDUSTRIES AMO 161-93  Signature:  Lic or Stamp:	Lead no
PR 1 0 2008	TH	q:	5	.9.	Date: April 10, 2008 S/N: 42.AC127 Reg: N127US TACH: 5.9 hrs.  W/O RO-08-138  The following work carried out.	
					G1000 updates C/W. Safe Taxi & Obstacle Next Expiry 05 June, 2008.  Jeppesen Next Expiry Date 08 May, 2008  The maintenance described above has been performed in accordance With the applicable standards of airworthiness.  DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161-93  Signature  Lic or Stamp  R06	
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DATE		ILY TAL	TIME	L AIR SINCE G.	ENGINEERING RECORD	INSPECTION, REPAIRS & REPLACEMENT SIGNAT	URE LICENCE
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BROUGHT FORWARD			5		<b>©</b> Diamond	4/19/09 C/WELT INSPYOPS CHECK I/A/W 91.207(D)	
APR 1 4 2008	TAC	4:	9	.9.	Date: April 14, 2008 7.A.	45.5-ACH J-/L-AP3114823 BALTERY EXCIPATION FEB 2013	
	-				RO-08-157 S/N: 42.AC127 Reg: N127US TTAF: 9.9 hrs.		
					The Following work has been carried out:  LH & RH Aux. fuel tanks filler door locks with key # 2485 removed and		
/					replaced with new locks off new A/C 42.AC145 with key # 2535 RC0807861  The maintenance described above has been performed in	ANNUAL INSPECTION ENTRY W/O#	
		4/10			accordance with the applicable standards of airworthiness.  DIAMOND AIRCRAFT INDUSTRIES AMO 161-93	Date 5/1/09 Acft Id N/27U S SMOH	
*		i barr	-		DA	Hobbs — Tach <u>45.5</u> TT <u>45.5</u>	
					Signature:Lic or Stamp:		
		1	9	.9		I certify that this ARCRAFT has been inspected in accordance with An Annual and was determined to be in	
AUGUST .			74		ON 8/23/08 The CRS/BARD	an airworthy condition.	
23, 2008			3.5	4	Knob on installed displace	Insp. Sign. & Cert. No. 5-4-143114823	
			-		were charged for intenference	mop. o.g.m a ostano	
					with nowe found per GARMIN		
·					Alex + 0824, Signed Pyrls		
					PILOT JOWNER RED		
-					100 / 100000	Dog Bone LLC	
					10	540 W. Airport Rd; Ste# A2	
				-		Casa Grande, Az. 85222	
					SOUTHWEST FLIGHT CENTER	N127US Make: Diamond Twin Star Model: DA 42 S/N: 42.AC127	
± <del>5</del>						3 Sept 09 Hobbs:	
					N127US 04-29-08 T-27.5	Removed aircraft battery, charged, load tested, Load test ok, Re-installed battery to	
						aircraft	
4/29/08					Adjusted Lock Tab on Lt. Fuel Cap Lock, Reattached Velcro At Rear Passenger Foot rest Covers, T/S De-Ice Fluid Tank Due To Fluid On	Aircraft returned to service	
					Belly Of Acft. After Flight. Inspected Vent / Overflow Plumbing, No Disrepancies Noted.	Stephen Hartwell A&P527582083	
4					No Distepancies Noted.	1	
					Sign Jeny Surva Print George A. Encinas Cert. AP-1379369IA		
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					SCOTTSDALE AIRPORT (480-991-2880)		
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-					CARRIED FORWARD		•



N127US Date: March 5, 2010 Model #Diamond DA42 S/N 42.AC127 **TACH: 93.3** 

#### AIRFRAME LOG ENTRY

Removed pitch servo p/n 065-00178-2500, s/n 10691. Installed new servo p/n same, s/n 10328.

Removed turn coordinator p/n 1394T100-12RB, s/n A07-11410 Installed new coordinator p/n same, s/n M07-11620. Autopilot operational check was good IAW POH

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. A29-10-00574

LANDMARK AVIATION

FAA CRS # LN3R663L

# **ANDMARK** VIATIO

14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: March 16, 2010 1 of 2 Model #Diamond DA42 S/N 42.AC127 TACH: 83.1 AIRFRAME LOG ENTRY

MSB-42-062/1 dated 11/13/2008, Replacement of the landing gear down lock pin per WI-MSB 42-062 action 2. Installed new pins from kit #MSB-42-062-kit. Compliance with Action 2 is considered terminating action.

MSB-42-063 dated 11/24/2009, inspect/modification of the nose wheel steering centering unit by c/w steps 1 thru 8 and 10-18, no further action required.

MSB-42-070/1 dated 6/24/2009, NLG tubular pivot assv. per W1-MSB-42-070 by performing visual inspection and measuring gap. This MSB recurs every 100 hours, next due AFTT 183.1.

MSB-42-074/2 dated 11/10/2009, NLG box reinforcement per W1-MSB-42-074R2. Landmark Aviation performed steps 1-7 22-31.

Performance One Aviation performed steps 8-21.

AD 2008-16-20 dated 9/17/2008, Aileron/rod end replacement is not applicable to this aircraft per MSB-42-43/1 dated 4/3/2000 by the aircraft serial number.

AD 2008-23-08 dated 12/22/2008, Support bracket Powder Coat, is not applicable by engine model.

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TE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLE

ENGINEERING RECORD

LANDMARK

14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US DA42 S/N 42.AC127 3/16/10

2 of 2

Installed the following new non serialized parts: LH/RH cowling intercooler chrome piece p/n D60-716-18-0x02 RH cowling chrome piece p/n D60-7116-25-00x02.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. \$29-10-01932/

LANDMARK AVIATION

FAA CRS # LN3R663L



N127US Date: June 17, 2010 Model #Diamond DA42 S/N 42.AC127 **AIRFRAME LOG ENTRY** 

Adjusted LH/RH Struts to 260 psi. IAW Diamond MM 32.40.

Removed and reinstalled Velcro on carpet.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service W.O. \$29-10-02237/

LANDMARK AVIATION

FAA CRS # LN3R663L



14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: March 24, 2010 Model #Diamond DA42 S/N 42.AC127 TACH: 83.1

### AIRFRAME LOG ENTRY

Removed and reinstalled the autopilot computer p/n 065-00176-7904 s/n KC140-11354 after modification. See FAA form 8130-3 dated12/29/2009, WO# AH9102 by Honeywell

Removed configuration module p/n 071-00073-5000 s/n 17321.

Installed new module p/n same s/n KCM100-19355. Performed "system setup" per Honeywell tech support.

Adjusted flapper valve on the LH engine firewall and tightened —

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a defrost air line in baggage compartment.  Reseated pin in stall warning heat connector.  Reseated pin in RH fuel temp connector.  ertify that the above stated maintenance was performed in ordance with the current FAR's and this aircraft is approved for eturn to service. W.O. S29-09-01801	I certify that the above single accordance with the currifor return to service. W.C. LANDMARK AVIATION	ent FAR's	and this aircraf	t is approved
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Complied With (50hr)(100hr)(annual)Insp	Dection 070	i lon	lisual .	B-42
Eng. TT //8.6 Eng. TSMC	2 1 0	asures	a gap	- July
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N127US Date: May 13, 2010 Model #Diamond DA42 S/N 42.AC127

TACH: 104.3

AIRFRAME LOG ENTRY

Removed trim servo p/n 065-00180-3500 s/n 10165 and

Reloaded MFD deice fluid level option software.

—installed modified servo p/n same s/n 5680. See Honeywell

CRS # PR2R093L FAA Form 8130-3 dated 2/11/2008, W/O

14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400

N127US Date: January 27, 2011 1 of 2 Model #Diamond DA42 S/N 42.AC127

TACH: 42.6 HOBBS: 42.6 |38.5 AIRFRAME LOG ENTRY SEL NET PO

Performed a lightning strike Inspection.

Replaced the following circuit breakers: LH/RH ECU fuses p/n ANL35 2 ea per side LH/RH ECU circuit breakers p/n MS3320-20 1 ea per side LH/RH ECU circuit breakers p/n MS3320-30

Performed bonding visual inspection.

Performed visual inspection for lightning exit points.

Shored up the LH wing, drained fuel removed the wing for replacement of the inbd fuel probe p/n D60-2817-13-00-1A-59.\_\_ Reinstalled wing connected wires and hoses. Installed wing bolts torqued. Fueled wing, no leaks noted. Installed wing gap -

Checked tire pressure and strut height. Adjusted nose wheel centering link.

Installed new LH winglet p/n D60-5731-00-00.

N127US DA42 S/N 42.AC127 1/27/2011 2 of 2

Removed aircraft battery p/n RG24-15M s/n 40207303. Installed new battery p/n same s/n 40404986.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved. for return to service. W.O. 829-10-02637

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FAA CRS # LN3R663L



**ADDENDUM** N127US Date: January 27, 2011 Model #Diamond DA42 S/N 42.AC127 TACH: 138.5 HOBBS: 138.5

AIRFRAME LOG ENTRY

MSB 42-076 dated 6/7/2010, was complied with by sealing the firewall holes per WI-MSB 42-076.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. \$29-11-03194

LANDMARK AVIATION

FAA CRS # LN3R663L



N127US Date: February 21, 2011 Model #Diamond DA42 S/N 42.AC127 TACH: 138.5

AIRFRAME LOG ENTRY

Updated G1000 software update to Ver. 370.22 IAW Diamond SB MS1342-008/13 and Garmin G1000 Line Maintenance & Configuration Manual 190-00303-04 Rev F Sep 2008.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. A29-11-00913

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FAA CRS # LN3R663L



14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: February 21, 2011 Model #Diamond DA42 S/N 42.AC127 **TACH: 138.5** 

AIRFRAME LOG ENTRY:

CW Diamond MSB -42-007-8 dated 17Jan2011 by Updating FADEC Mapping 028V293DA42 p/n 52-7610-E000502 on LH/RH engines.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.Q. A29-11-00913

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14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: March 1, 2011 Model #Diamond DA42 S/N 42.AC127 AIRFRAME LOG ENTRY

Scratches on exterior of canopy polished out by Aerotech Acrylic Concepts, reference AAC material removal data sheet. See AAC W/O 0123.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. S29-11-03194

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CARRIED FORWARD



14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: January 27, 2011 1 of 2

Model #Diamond DA42 S/N 42.AC127 TACH: 138.5 HOBBS: 138.5 AIRFRAME LOG ENTRY

Performed a lightning strike Inspection.

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Replaced the following circuit breakers: LH/RH ECU fuses p/n ANL35

2 ea per side LH/RH ECU circuit breakers p/n MS3320-20

. 1 ea per side LH/RH ECU circuit breakers p/n MS3320-30

Performed bonding visual inspection.

Performed visual inspection for lightning exit points.

Shored up the LH wing, drained fuel removed the wing for replacement of the inbd fuel probe p/n D60-2817-13-00-1A-59. Reinstalled wing connected wires and hoses. Installed wing bolts torqued. Fueled wing no leaks noted. Installed wing gap

Checked tire pressure and strut height. Adjusted nose wheel centering link.

Installed new LiH winglet p/n D60-5731-00-00.



N127US DA42 S/N 42.AC127 1/27/2011 2 of 2

Removed aircraft battery p/n RG24-15M s/n 40207303. Installed new battery p/n same s/n 40404986.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. \$29-10-02637

LANDMARK AVIATION

FAA CRS # LN3R663L



14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: May 12, 2011 Model #Diamond DA42 S/N 42.AC127 TACH: 160.8 HOBBS: 160.8 AIRFRAME LOG ENTRY

C/W LH engine FADEC download C/W RH engine FADEC download

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. A29-11-01011

FAA CRS # LN3R663L

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#### AIR TIME AND

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DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLE	
BROUGHT FORWARD						
JULY 11, 2011					C/W ANNUAL INSPECTION CHECKLIST	
TACH! 166.1	39				I.A.W. FAR 43 APPENDIX (P).	
AFTT. 166.1					5/W MSB 42-087-1 RUDDER CONTROL	
995					SYSTEM. NO DEFECTS NOTED,	
-					C/W FAR 91.207(D) ELT INSPECTION.	
					INSTALLED NEW BRAKE GNINGS ON	
					(RH) AND (LH) MLG. CLEANED INSPECTED	
					RE-PACKED WHEEL BEARINGS	
					I CERTIFY THAT THIS AIRCRAFT	
					HAS REEN INSPECTED IN ACCORDANCE	
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14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: March 1, 2013 1 of 6 Model #Diamond DA42 S/N 42.AC127 AFTT: 243.2 HOBBS: 243.2

LH TAE125-02-99 s/n 02-02-02131 ETT: 243.2 RH TAE125-02-99 s/n 02-02-02132 ETT: 243.2 LH MTV-6-A-C-F s/n 071237 PTT: 243.2 PTSO: 0 RH MTV-6-A-C-F s/n 071239 PTT: 243.2 PTSO: 0 AIRFRAME LOG ENTRY

Performed 50/100 hour / 6/12 month annual inspection per the Manufacturers check list.

12 month FAR 91.207(d) inspection battery expiration date Feb. 28, 2013.

1 year LH/RH alternator excitation batteries replacement p/n LC-R121R3P

1 year LH/RH ECU backup batteries replacement p/n LC-R127R3P.

1000 hour/1 year 12 month KAP 140 mechanical check.

1000 hour/24 month Garmin G1000 airspeed accuracy check. Garmin G1000 VSI accuracy check, Garmin G1000 altimeter accuracy check, transponder accuracy check.

1000 hour/24 month bonding system and static discharging system resistance measurements.

N127US DA42 S/N 42.AC127 3/1/2013 2 of 6

2 year emergency power pack replacement p/n D60-2560-91-00 no serial number. MFG date APR/ 2012, Installed Jun 2012.

2 year standby compass swing and made adjustments as

2 year Garmin G1000 GRS 77 earth magnetic field 2 year update due 3/31/2013.

Performed a lightning strike inspection per the Diamond DA42 maintenance manual.

**AD 2011-10-13** dated 6/17/2011, inflight loss of rear passenger door, is not applicable by the aircraft s/n is not affected per MSB 42-083 dated 7/13/2010.

AD 2011-07-09 dated 5/5/2011, Install FADEC software version 2.91 on both engines.

**AD 2011-11-07** dated 7/6/2011, main landing gear damper to trailing arm cracks, was complied with by changing out the following MLG joints 2 ea p/n 064-3217-23-00. Installing those new parts is considered terminating action for this AD. The following associated parts were also changed: 2 ea D60-3217-25-00 adapter bushing

2 ea D64-3217-21-62 bushing

2 ea D64-3217-21-67 bushing

8 ea LN9025-0815K washer M8

4 ea LN9037-M8x50 hex screw

4 ea LN9338M8 hex nut

N127US DA42 S/N 42 AC127 3/1/2013 3 of 6

AD 2012-17-07 dated 10/11/2012, to prevent wing failure, is not applicable to this aircraft by serial number of this aircraft, 42.AC0127. No further action required.

MSB-42-070/1 dated 6/24/2009, (DAI) 100 hour recurring inspection or terminating replacement of the NLG tubular pivot assy. Complied with MSB by inspection found the gap greater than .035 limit @ .002 filed an execution report and emailed to DAI. Next inspection due @ 343.2 AFTT.

MSB-42-091 dated 6/28/2011, (DAI) initial inspection or replacement of MGL bearing housing, inspected housing, no defects noted recurs every 100 hours, next due 343.2 AFTT.

MSB-42-095 dated 11/11/2011, MLG damper nut replacement by 12/31/2012. Removed the LH/RH dampers, removed the damper caps. Installed new customer supplied parts and reinstalled the LH/RH dampers.

MSB-42-077 dated 7/14/2010, Emergency exit handle operation, the handle operates smoothly, no problems. Reinstalled handle, safety wired and sealed handle with Terostak 1x.

Performed a lightning strike Inspection.

Performed an aircraft bonding check on systems and components. Made numerous repairs to bonding problems found on aircraft by replacing bonding straps and cleaning bonding points.

N127US DA42 S/N 42.AC127 3/1/2013 4 of 6

Performed engine task 02-02-02131/-02132 visual inspection for lightning exit points.

Performed task 02-02-02131/-02132 engine bonding visual inspection.

LH engine FADEC download RH engine FADEC download

#### Installed new non serialized parts:

LH/RH ECU fuses p/n ANL35 2 ea per side LH/RH ECU circuit breakers p/n MS3320-20

1 ea per side LH/RH ECU circuit breakers p/n MS3320-30

Cockpit flood light p/n DA4-3311-10-02 LH/AFT NAV light p/n A508-28V

Main battery fuse holder p/n MS24001-1 LH main gear door hinge bracket p/n D60-5287-71-00

Jack pads p/n DV2-1200-00-02

Shored up the RH wing, drained fuel, removed the wing for replacement of the inboard fuel probe p/n D60-2817-13-00-1asy. And the outboard probe p/n D60-2817-14-00-1-asv. Reinstalled wing connected wires and hoses. Installed wing bolts torqued. Fueled wing, no leaks noted. Installed wing gap

Installed new RH winglet p/n D60-5732-00-00.

CARRIED FORWARD

Tested the pitot and static system due to wing removal and reinstallation, no problems noted.

Removed the GMU 44 ( flux valve) p/n 011-00870-00 s/n 47508916. Installed an overhauled unit p/n same s/n 47506189. See FAA form 8130-3 dated 5/21/2012, WO# 2382319 by Garmin International.

Removed the GDC74A p/n 011-00882-00 s/n 47808486. Installed overhauled unit p/n same s/n 47805399. See FAA form 8130-3 dated 4/30/2012, WO# 2211417 by Garmin International.

Reprogrammed the transponder to put out aircraft N127US.

Removed the Standby altimeter p/n 5934PD-3 s/n 463782. Installed an overhauled altimeter p/n 5934PD-3A.130 s/n 464150. See FAA form 8130-3 dated 6/19/2012, WO# WRK0200317 by Mid Continent Instruments & Avionics.

Removed the pitot static probe p/n PST305 s/n 1890501. Installed new probe p/n same s/n 1890501. Performed leak check, no problems noted.

Installed a new emergency power pack p/n D60-2560-91-00 MFG. 4/2012, installed 6/2012.

N127US DA42 S/N 42.AC127 3/1/2013 6 of 6

Replaced the LH lightening diversion system overvoltage unit p/n LDS-50-60-28-1 s/n off 070713044, s/n on 080122018.

Replaced the RH lightening diversion system overvoltage unit p/n LDS-50-60-28-1 s/n off 070713049, s/n on 070423056.

Removed the LH outboard flap p/n D60-57-53-00-00. Installed new flap assy. p/n D60-5753-00-00 s/n 504.

Installed new decal on the RH winglet.

Installed new LH/RH propeller spinners p/n R031-B-Chrome.

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. S29-12-04593 & \$29-12-04534

LANDMARK AVIATION

FAA CRS # LN3R663L



14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400

N127US Date: March 1, 2013 Model #Diamond DA42 S/N 42.AC127 TACH: 243.2 HOBBS: 243.2

AIRFRAME LOG ENTRY

I certify that the ATC Transponder has been tested as required by FAR 91.413 and was found to comply with FAR 43,

Appendix F. #1 Transponder: **GTX33** #2 Transponder: **N/A** Date: 3/1/2013, Work Order #: S29-12-04593

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I certify that the altimeter and altitude reporting equipment have been tested as required by FAR 91.411, and were found to comply with FAR 43, Appendix E. Pilot's Alt. to: 20,000 FT. Standby Alt. to: 20,000 FT. #1 Encoder to: 20,000 FT. #2 Encoder to: N/A Date: 3/1/2013, Work Order #: S29-12-04593

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

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AVIATION		
14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400		
Model #Diamond DA42 S/N 42.AC127 TACH: 206.6		
AIRFRAME LOG ENTRY		
C/W LH engine FADEC download: MOD TAE-02-99 s/n 02-02-		
Firmware TAE 125M3.00 CRC 1 27260520		
LH FADEC s/n 4571 Mapping: Diamond 028V300DA42 CRC 4092534590	77	
C/W RH engine FADEC download: MOD TAE-02-99 s/n 02-02-		
02132 Firmware TAE 125M3.00 CRC 1 27260520		
RH FADEC s/n 4564 Mapping: Diamond 028V300DA42 CRC 4092534590		
Did not perform extended download at this time.		
certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. S29-12-04217		
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LANDMARK AVIATION FAA CRS # LN3R663L		
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14600 North Airport Drive Scottsdale, AZ 85260 (480) 948-2400 Date: October 22, 2013		
2772 3711 47 07:477		
IACH 285 8		
AIRFRAME LOG ENTRY		
Updated the TKS on software version 0370.22, operational		
CEMITY that the ab-		
accordance with the current FAR's and this aircraft is approved		* 5
or return to service. W.O. S29-13-05819		
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ANDMARK AVIATION FAA CRS # LN3R663L		-

## ENGINEERING RECORD

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CARRIED FORWARD



14600 North Airport Drive • Scottsdale, AZ 85260 • (480) 948-2400 N127US Date: April 1, 2014 Model #Diamond DA42 S/N 42.AC127 TACH: 310.3

#### AIRFRAME LOG ENTRY

Removed TKS Level Indicator P/N 226-801-015-00 and Installed New Level Indicator P/N D60-3013-25-00. Operational check good. IAW DA42 MM 30-00-00

I certify that the above stated maintenance was performed in accordance with the current FAR's and this aircraft is approved for return to service. W.O. \$29-14-06384

LANDMARK AVIATION

FAA CRS # LN3R663L



## AIR TIME AND

	DAILY TOTAL		OTAL AIR IME SINCE MFG.	ENGINEERING RECORD  ENGINEERING RECORD  ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.  NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLE IN TRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.	SIGNATURE LICE NUM
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	1			unspection Cushes son special	
	1		#1-7 H	Our stransfer pump and	
			See	surter Replaced standby	
				hatteries and ECU back up	
	1			hatteries. & certify that this	
100			1	aircraft has been inspected and	
				found to be in an airworth	
				Condition Russell Furrell Harris	
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	DAILY	TOTAL AIR TIME SINCE MFG.	ENGINEERING RECORD  NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETING	INSPECTION, REPAIRS & REPLACEMENT  ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.  SIGNATURE NU
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DATE	DAI TOI	ILY FAL	TIME	L AIR SINCE G.	ENGINEERING RECORD  NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLET
DATE	HRS.	MIN.	HRS.	MIN.	NOTE: USE SO IN VACES AND
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October 01, 2022 N127US Tach 661.4 DA-42 Used Diamond inspection checklist. Cleaned and packed wheel bearings with grease. Replaced brake caliper piston O rings and seals. Serviced brakes with 5606. Serviced main gear and nose gear struts with nitrogen. Replaced right engine gear box and clutch friction disk. Replaced right engine shock mounts. Replaced right prop accumulator. Replaced right turbo waste gate controller and hoses and change over valve. Serviced gear boxes with N1 oil. Serviced accumulator with nitrogen. Oil changed and filters cut and inspected. Replaced right wing tip strobe light. Replaced right horizonal stab static wick. Replaced right cabin door window latch. Inspected props per MT Service letter 32. I Certify that I have inspected this aircraft in Accordance with FAR 43.13 Appendix D in scope and detail and approve for return to Service.

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BROUGHT FORWARD	HRS.	r	HRS.	FG, MIN.	NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLET  NITO DA. 42 SN &127  Annual inspection Completed  with open items to be Completed  before Return to Sorvice Engine sil  change both engines and filters to  be changed. 2 Redictor Cooling hors  need changed. all Rodictor support dompore  torn. Air shround for interconfor both engine  support mounts form off. Rt Ephonel pipe  shround is, boso. Jeht Lower Cower  mond and Receptor le Mission. Mass	NTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.  N127US ACTT: 754.5 December 30, 2024 SN: 42.AC 127  Completed Annual inspection . per FAR 43.13 per Appendix D in scope and detail. Used diamond 100 hour checklist as a guide Completed gear swings. Repacked wheel bearings with grease. Checked flight control travels. Inspected Axie nut for security and bracket wear per AD 24-06-13. Replaced cabin door latch gas cylinder. Replaced brake linings. Replaced Left brake caliper. Replaced left main wheel tire.Downloaded ECU logs and reviewed. Replaced both fuel filters. Replaced both induction filters.Replaced ELT Battery and tested. I Certify that I have inspected this aircraft in accordance with FAR 43 Appendix D in scope and detail and found it to be airworthy at this time.	SIGNATURE	LICENT
		Juse man	olet in	CAGA	promotional Receptional Missing Mose  Wheel able both not an inversely both  Rt engine Serpentine lest Cracking and  Atems Repaired Loday Rt Inalia  pad helder. Main whose bearings and  mose your branings whatalle persections  air pressure monitors. Replace off  three sineraft per Ref Diamone  air craft checklist for annual  inspection With Listed description  Physical Farrell Harris IA 270 5024	Pau. 30, 2024  N127US ACTT: 754.5 Completed 12 month FAR91.207(D) inspected ELT battery and operationally tested ELT.  Replaced ELT Battery.  IA 2705924		
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ADC SCALE CORRECTION CARD

REFERENCE ALTITUDE IN FT.	ALTIMETER READS	REFERENCE ALTITUDE IN FT.	ALTIMETER READS
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ested By: \		N127US	Date: 09-26-25



Thoroughbred Aviation Maintenance, Inc. 4316 Hangar Drive Lexington, KY 40510 **FAA CRS # R81R199Y** 

STBY ALTIMETER SCALE CORRECTION CARD

REFERENCE ALTITUDE IN FT.	ALTIMETER READS	REFERENCE ALTITUDE IN FT.	ALTIMETER READS	
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Thoroughbred Aviation Maintenance, Inc.

4316 Hangar Drive Lexington, KY 40510 FAA CRS # R81R199Y



THOROUGHBRED AVIATION MAINTENANCE, INC. **4316 HANGAR DRIVE LEXINGTON, KY 40510** CRS#R81R199Y

SYSTEM TEST DATE:_	09-26-25	WORK ORDER:	A25185TACH:	**********	_HOBBS:	764.4

AIRCRAFT REG# N127US AIRCRAFT SERIAL NUMBER: 42.AC127

AIRCRAFT MAKE/MODEL: DIAMOND AIRCRAFT DA 42

I HEREBY CERTIFY THAT THE ALTIMETER, ENCODER, AND STATIC SYSTEM TESTS/INSPECTIONS REQUIRED BY 14 CFR §91.411 HAVE BEEN PERFORMED AND MEET SPECIFICATIONS SET FORTH IN 14 CFR 43 APPENDIX E.

ADC TESTED TO 20,000 FEET STBY ALTIMETER TESTED TO 20,000 FEET

I HEREBY CERTIFY THAT THE ATC TRANSPONDER TEST/INSPECTION REQUIRED BY 14 CFR §91.413 WAS PERFORMED AND FOUND TO COMPLY WITH FAR 43, APPENDIX F.

#1 TRANSPONDER MAKE: GARMIN MODEL NUMBER: GTX 33 SERIAL NUMBER: 89106064

Form TAM021-03/24