

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration U.S.A. N153TS
2. Manufacturer's Designation DA 42NG
3. Manufacturer's Serial Number 42.118
4. Type Approval or Specification Number A57CE - U.S.A.
5. Date of Manufacture 2006.
6. Aircraft Inspection Cycle 100 HR.

AIR TIME AND

[illegible]

ENGINEERING RECORD

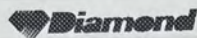
ENGINEERING RECORD

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION

TIMES BROUGHT FORWARD AND TRANSCRIBED

DEP: BGBW 1613. ARR: CYR 2031

DEP: CY4R 1219. ARR: CYXU 2021



Date: May 31, 2006 S/N: 42.118 REG : N153TS TSN : 36.3 Hrs.
W/O RO-06-111

The following additional work carried out by Diamond Aircraft Industries Inc. Service centre Dept.

Ferry flight fuel tank removal carried out I.A.W. DAI GmbH work instruction WI - OSB - 42 - 004 Rev. 0 dated July 19, 2005 hence reverting the Aircraft to Standard configuration. Fuel leak check and ground runup of the engines carried out and found to be satisfactory. Aircraft importation inspection carried out to meet the requirements for the issuance of a U.S. Standard Airworthiness Certificate in accordance with FAR 21.183 (c).
AWD Biweekly checked thru 2006-12

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

DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL #161-93

Signature _____

Lic or Stamp

I find that this aircraft meets the requirements for the certification requested and have issued a (Standard) (Special) Airworthiness

Certificate dated:

The next annual inspection is due:

Signed _____

DARYL L. MIDDLEBROOK

Federal Aviation Administration

Designated Airworthiness Representative: DART950010EA



Date June 07 , 2006 S/N: 42.118 REG : N153TS TSN : 37.3 Hrs.
W/O RO-06-118

The following additional work carried out by Diamond Aircraft Industries Inc. Service Centre Dept.

LH MLG down lock indication micro switch assy. Replaced with new unit. Installation of the switch carried out I.A.W. chapter 32 of the current DA 42 M.M. Both LH And RH MLG down lock indication switches rigged for proper contact on the rollers. Several Gear swings including Emergency Gear extension carried out and the system determined to function normal.

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

DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL #161-93

Signature _____

Lic or Stamp

N153TS

Hobbs: 495.6

~~CAROLINA AVIONICS GROUP, LLC~~

FAA Approved repair station QCCR389K
Altimeter Scale Error
 Correction Card

TEST FT(FT)	Indicator Reading at +25c	TEST	Indicator Reading at +25c
-1,000	-980	30,000	
0	20	35,000	
500	520	40,000	
1,000	1020	45,000	
1,500	1520	50,000	
2,000	2020	55,000	
3,000	3020	60,000	
4,000	4020	70,000	
6,000	6020	80,000	
8,000	8020		
10,000	10000		
12,000	12000		
14,000	14000		
16,000	15980		
18,000	17980		
20,000	19980		
22,000			
25,000			

Altimeter Position	
Pilot	<input type="checkbox"/>
Copilot	<input checked="" type="checkbox"/>

ALT. S/N 457353
 DATE 4-24-20

CAROLINA AVIATION

FAA Approved repair station QCCR389K Altimeter Scale Error Correction Card

TEST PT(FT)	Indicator Reading at +25c	TEST	Indicator Reading at +25c
-1,000	-1000	30,000	
0	0	35,000	
500	500	40,000	
1,000	1000	45,000	
1,500	1500	50,000	
2,000	2000	55,000	
3,000	3000	60,000	
4,000	4000	70,000	
6,000	6000	80,000	
8,000	8020		
10,000	10020		
12,000	12020		
14,000	14040		
16,000	16020		
18,000	18020		
20,000	20020		
22,000			
25,000			

Altimeter Position	
Pilot	<input checked="" type="checkbox"/>
Copilot	<input type="checkbox"/>

ALT. S/N 47805973
 DATE 2-24-20

ENGINEERING RECORD

1

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE
NUMBER

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

FROM FERRY FLIGHT LOGS.
TIMES TRANSCRIBED FROM FERRY FLIGHT LOGS.
TIMES TRANSCRIBED FROM FERRY FLIGHT LOGS.

[Signature]
[Signature]
[Signature]

DA
R06
DA
R06
DA
R06

CALIBRATION CARD ALTIMETER

P/N: 5934 PD-3

C/N: A 250

S/N: 451353

Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp	Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp
-1,000	-10	14,000	-75
0	-5	16,000	-60
500	0	18,000	-45
1,000	-5	20,000	-20
1,500	0	22,000	
2,000	5	25,000	
3,000	15	30,000	
4,000	25	35,000	
6,000	35	40,000	
8,000	50	45,000	
10,000	70	50,000	
12,000	80		

SUPERCEDED

Date: 1-5-06

Tested By: *[Signature]*

Inspected By: *[Signature]*

FORM QA-A5 (B)

UNITED INSTRUMENTS, INC.



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION MZER198L

N153TS
AIRFRAME



DATE: 07-14-06
MODEL: DA-42

TACH: 104.4
S/N: 42.118

REMOVED HYDRAULIC POWER PACK ASSEMBLY P/N X11-
HYD_KIT-001 S/N RCN515599 WITH NEW POWER PACK S/N
RCN614702 PER DA-42 MAINTENANCE MANUAL. OPERATIONAL
CHECK FOUND TO BE SATISFACTORY. REFERENCE MODERN AERO
W/O# 34322.

AARON MURPHY

[Signature]

1. Approving national aviation authority/country Transport Canada		2.		Authorization Release Certificate TCCA 24-0078		3. Form tracking No. SI063310	
4. Approved organization name and address Diamond Aircraft Industries Inc. 1560 Crumlin Sideroad London, Ontario N5V 1S2		5. Work order/contract/invoice					
6. Item 1	7. Description Hydraulic Assy	8. Part No. X11-HYD_KIT-001-ASY	9. Eligibility *	10. Qty. 1	11. Serial/batch No. RCN614702	12. Status/work	Manufactured
13. Remarks							
14. 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 13							
15. Authorized signature 		16. Certificate/Approval ref. No. /161-93		19. <input type="checkbox"/> CAR 571.10 Maintenance release <input type="checkbox"/> Other regulations specified in block 13 Certifies that, except where otherwise specified in block 13, the work identified in block 12 and described in block 13 was performed in accordance with CAR 571.		21. Certificate/Approval ref. No.	
17. Name E. B. Buckman		18. Date (dd/mm/yyyy) 12/JUL/2006		20. Authorized signature 		23. Date (dd/mm/yyyy)	
User/Installer Responsibilities							
1 This document does not constitute authority to install the part.							
2 Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in Block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in Block 1.							
3 Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issue accordance with the national regulations of the state of registry, before the aircraft may be flown.							
12/09/2003		*Installer must cross-check eligibility with approved data					

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aryl L. J.

DARYL J

Federal Avi

Airworthiness

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June 07, 2006 S/

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AIR TIME AND



AVIONICS OF MODERN AERO, INC
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y

N153TS

DATE: 07/31/2006

TOTAL: 126.4

Installed Garmin GDL69A and GA55 XM Satellite Radio data link receiver system. Upgraded G1000 software to version 0370.14 per Garmin Software Service Bulletin # 0609 revision A. Weight and balance and equipment list revised this date. See FAA Form 337 dated this date for further details.

Avionics of Modern Aero, Inc
CRS 05VR 353Y

Eden Prairie, MN 55347
W/O# 4717

Frank Nook Frank Nook



AVIONICS OF MODERN AERO, INC
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION 05VR353Y

N153TS

DATE: 09/12/2006

TOTAL: 186.4

Removed defective Garmin GDL69A s/n 47755871 and replaced with new unit s/n 47756104. Configured and updated subscription. Ramp tested satisfactory.

Avionics of Modern Aero, Inc
CRS 05VR 353Y

Eden Prairie, MN 55347
W/O# 4781

Chad Morley Chad Morley



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION MZER198L

N153TS

AIRFRAME

DATE: 10-04-06

MODEL: DA-42

ACTT: 186.6

S/N: 42.118

INSTALLED NEW P/N D60-1127-10-52-1 R/H WING WALK.
INSTALLED NEW P/N D60-7806-10-00 EXHAUST TAIL PIPE ON L/H ENGINE. SERVICED AND CHARGED AIRCRAFT BATTERY. CAPACITY TEST ON BATTERY FOUND SATISFACTORY. COMPLIED WITH ~~MSB 42-02~~ BY REPOSITIONING EXHAUST TAIL PIPES FOR PROPER CLEARANCE. REFERENCE MODERN AERO W/O # 34482

KEN FISCHBACH

Ken Fischbach

CARRIED FORWARD

ENGINEERING RECORD

2



MODERN AERO, INC.
14801 PIONEER TRAIL
EDEN PRAIRIE, MN 55347
952-941-2595

FAA APPROVED REPAIR STATION MZER198L

N153TS
AIRFRAME

DATE: 10/13/06
MODEL: DA-42

ACTT: 195.0
S/N: 42.118

COMPLIED WITH MSB ~~42-024~~ AND SI 42-029 BY INSTALLING KIT MSB-42-024 WITH NEW STEEL FITTINGS AND NEW P/N 02-6120-16022R2 HOSES ACCORDING TO MSB 43-024/3 AND SB TAE 125-0015. INSTALLED NEW P/N RB-0700 INDUCTION AIR FILTERS ON BOTH L/H AND R/H ENGINES. INSTALLED NEW P/N D60-7526-00-01 WATER TUBE MOUNTING PLATE ON R/H ENGINE. INSTALLED NEW P/N D41-5211-60-00.2 LATCH ASSEMBLY ON CANOPY. REFERENCE MODERN AERO W/O # 34562.

KEN FISCHBACH

Ken Fischbach

SIGNATURE

LICENCE
NUMBER

N153TS
AIRFRAME

DATE: 02/21/07
MODEL: DA-42

ACTT: 306.3
S/N: 42.118

PERFORMED ANNUAL INSPECTION PER DIAMOND DA-42 AMM. REPLACED BOTH ALTERNATOR EXCITATION BATTERIES P/N LC-R121 R3 PU. REPLACED BOTH L/H AND R/H MAIN WHEEL BRAKE PADS. REPLACED LEFT MAIN TIRE P/N 156E 61-3. C/W ~~MSB 42-028~~ BY SEALING ENGINE ELECTRICAL HARNESS WITH SILICON. C/W MSB 42-031 BY COMPLETING WI MSB 42-031. NO DISCREPANCIES FOUND WITH THE LANDING GEAR. C/W MSB 42-032/1 BY DRILLING VENT HOLES IN FILLER NECK PER WI MSB 42-032/1. C/W MSB 42-035 BY PERFORMING PRESSURE TEST PER WI MSB 42-035, NEXT DUE AT TACH 506.3. C/W MSB 42-019/4 BY INSTALLING NEW CHECK VALVES P/N X11-0012-00-00.00 AND T-FITTINGS P/N 6R6MX. C/W MSB 42-030/2 BY INSTALLING STAINLESS STEEL BANJO FITTINGS ON THE RETURN LINE FOR FUEL RAIL. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND FOUND TO BE IN AIRWORTHY CONDITION THIS DATE.

AARON MURPHY

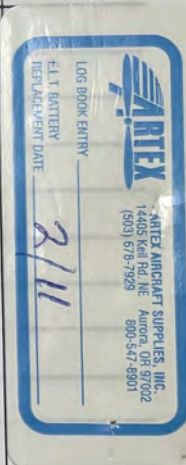
Aaron Murphy

2/21/2007

Modern Aero, Inc. FAA CRS MZER198L

Work Order #: 34898

A/F TT: 306.3



Modern Aero, Inc. FAA CRS MZER198L

Work Order #: 35224

6/28/2007

N153TS
AIRFRAME

DATE: 6/28/07
MODEL: DA-42

ACTT: 383.7
S/N: 42.118

REMOVED L/H AND R/H FUEL FILTERS. INSTALLED 2 NEW P/N 02-7310-04740R1 FUEL FILTERS USING 2 NEW P/N 02-7310-04732R1 O-RINGS. ~~AD 2007-12-05~~ PCW ON 2/21/07 BY PERFORMING ~~WI-MSB-42-032~~ SEE MODERN AERO W/O # 34898. RUN-UP, OPERATIONAL, AND LEAK CHECKS FOUND SATISFACTORY. REFERENCE MODERN AERO W/O # 35224

KEN FISCHBACH

Ken Fischbach

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 RECORD</small>
	HRS.	MIN.	HRS.	MIN.	

BR
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A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.

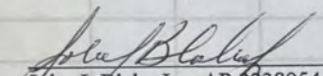
TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 12/21/2007

TACH TIME: 518.0 Hrs.
AIRFRAME T.T: 518.0 Hrs.

At this time the cabin heat cable, from control arm to bellcrank, was replaced, P/N I-6662019K03. The LH, D60-1127-10-51_1, and RH, D60-1127-10-52_1, wing walks were replaced. The left-hand fuel sender was replaced, P/N D60-2817-13-00_1. ASY, ops check ok. The RH outboard fuel tank was replaced, P/N D60-2817-00-00-S4, ops check ok. The RH and LH outboard main spar locking device tubes were replaced, 2ea P/N DA4-5700-00-71 Rev F. The LH and RH induction filters were replaced, 2EA P/N RB-0700, next replacement due in 200hrs at a total time of 718.0 Hrs. A seal was added to the canopy as needed. The LH and RH cowl fins were repaired as needed. The RH main tire was replaced using a Michelin 15x6.0-6/120, P/N 072-449-0.

AD 2007-23-14, on violation of AFM procedures of low voltage gear retraction, was complied with by installation of battery backup kit, P/N OSB-42-050-KIT, in accordance with Diamond OSB-42-050A1, dated Oct 15 2007, and Diamond WI-OSB-42-050 Rev 2, dated Sept 10 2007. The backup batteries are due for replacement in 12/27/2008. The weight and balance was revised to reflect this addition, dated 12-27-2007, and the airplane flight manual was revised as needed. Ops check ok.

-----END-----


John J. Blaha Jr. AP 2238954

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 03/11/2008

TACH TIME: 569.1 Hrs.
AIRFRAME T.T: 569.1 Hrs.

At this time, the aircraft was inspected and lubed in accordance with an Annual Inspection per Diamond Service Manuals. The LH and RH step grips were replaced. The RH main tire was replaced using a Condor 15x6.0-6/120, P/N: 072-449-0. The wheel bearings were cleaned and greased. The LH main gear actuator P/N: X11-0006-00-00.00/2, S/N: 0279 was removed and a new actuator P/N: X11-0006-00-00.00/2, S/N: 0887 was installed. The nose gear actuator P/N: X11-0006-00-00.00/1, S/N: 0111 was removed and a new actuator P/N: X11-0006-00-00.00/1, S/N: 0403 was installed. The nose gear lower strut plate was replaced P/N: D60-3223-15-52. The nose strut was serviced with hydraulic fluid and nitrogen. A gear retraction and emergency extension test was performed. The gear was cleaned as needed. The nose gear torque link hardware was replaced as needed. The landing gear power pack and the brake reservoirs were serviced. The brakes were checked and found within limits. The rudders "S"-slides were lubed. The excitation batteries were replaced 2ea. P/N: LCR 12-V 1.3P and next due in 12 months. The emergency lithium battery pack was replaced P/N: D60-2560-91-00 and is next due for replacement March 2010. The aircraft battery was serviced and charged. The ELT model ME40, S/N: 00460, was inspected and tested in accordance with FAR 91.207(d)(1-4). The battery is due for replacement Feb 2011. The TKS reservoir screen was removed, inspected, cleaned, and installed. The co-pilot window seal was replaced P/N: 512AF.

-----CONTINUED-----

CARRIED FORWARD

ENGINEERING RECORD

3

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

SIGNATURE

LICENCE
NUMBER

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 03/11/2008

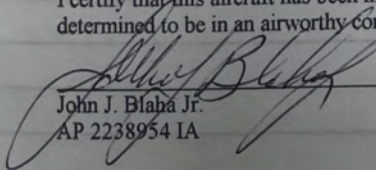
TACH TIME: 569.1 Hrs.
AIRFRAME T.T: 569.1 Hrs.

Diamond MSB-42-043, on replacement of aileron bellcrank, was complied with by replacement of aileron bellcranks and rod ends in accordance with WI-MSB-42-043 with P/N: MSB-42-043-KIT and checked for proper rigging - found within limits.

Diamond MSB-42-055, on water circulation installation, does not apply by aircraft serial number. All AD's checked thru Bi-Weekly 2008-05.

END

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


John J. Blaha Jr.
AP 2238954 IA

AIR TIME AND

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

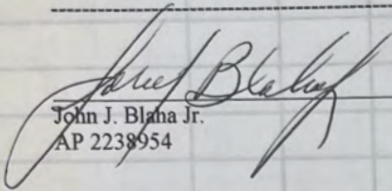
ENGINEERING RECORD
 REQUIRED FOR COMPLE

TYPE: DIAMOND DA42
 "N" #: N 153TS
 DATE: 04/24/2008

TACH TIME: 598.9 Hrs.
 AIRFRAME T.T: 598.9 Hrs.

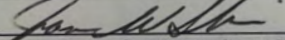
At this time, the RH and LH fuel filters were replaced. The nose strut was serviced with nitrogen to the proper extension. The Co-Pilot fresh air window latch was installed as needed. The cabin heat cable was adjusted for ease of travel.

-----END-----


 John J. Blaha Jr.
 AP 2238954

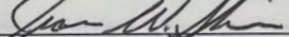
I certify that the Altimeter/s and Static system tests required by FAR 91.411 have been performed in accordance with FAR 43, Appendix E.

Static System Test Date 05/01/2008
 Altimeter/s Tested to 20,000 ft. Date 05/01/2008
 Alt Reporting System Tested to 20,000 ft. Date 05/01/2008
 Work Order 2008-040

Signed  CRS#UOHR009X
 HELICOPTER SPECIALTIES, INC.
 4746 S. Columbia Drive
 Janesville, WI 53546

I certify that the ATC Transponder Tests and Inspection required by FAR 91.413 have been performed in accordance with FAR 43, Appendix F.

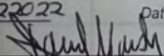
Unit S/N 89101869 Date 05/01/2008 Work Order 2008-040

Signed  CRS#UOHR009X
 HELICOPTER SPECIALTIES, INC.
 4746 S. Columbia Drive
 Janesville, WI 53546

DA 42	Emery Air, Inc.	12 May, 2008
N153TS	Hawker Beechcraft Authorized Service Center	WO: PT 22022
S/n: 42.118	Greater Rockford Airport-Rockford, IL 61109	HRS : 617.7
FAA Approved Repair Station No. E81R759X/EASA.145.4811		

Aircraft weighed in closed hangar using Roadrunner scales, 30057 s/n: 483.
 New Basic Empty Weight 2925 Lb (1328 Kg) C.G. 94.64 In (2.404 M)

MAINTENANCE RELEASE

WO: PT 22022 Date: 5-12-08
 Signed: 

Approved for Return to Service With Respect to the Work Performed
 EMERY AIR INC.
 Greater Rockford Airport, Rockford, IL 61109
 F.A.A. Approved Repair Station No. E81R759X/EASA.145.4811

ENGINEERING RECORD

4

TRIES. DRAW

INSPECTION, REPAIR

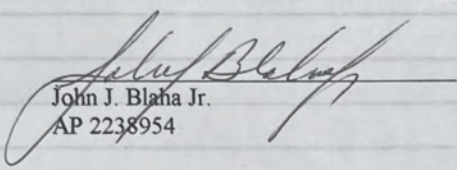
A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

SIGNATURE

EVIDENCE
NUMBERTYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 10/03/2008TACH TIME: 711.3 Hrs.
AIRFRAME T.T: 711.3 Hrs.

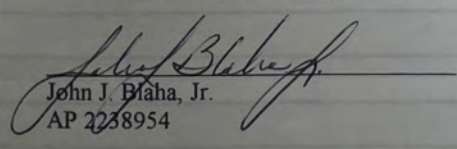
At this time the LH aux fuel pump transfer switch was replaced, P/N 198-8507. The LH and RH wing walks were replaced, LH P/N D60-1127-10-51_1 and RH P/N D60-1127-10-52_1. All brake linings were replaced, 8ea P/N APS66-10500. Both induction filters were replaced, 2ea P/N RB-0700, next replacement due in 200hrs. The nose gear torque link hardware was tightened as needed. The nose strut was serviced with nitrogen.

-----END-----

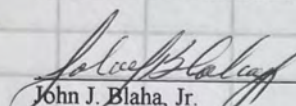

John J. Blaha Jr.
AP 2238954**A & M Maintenance Services, Inc. - 1C5**
Clow International Airport, Bolingbrook, IL.TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 10/03/2008TACH TIME: 711.3 Hrs.
AIRFRAME T.T: 711.3 Hrs.

At this time, an operational test of the ice protection was accomplished in accordance with Diamond AMM-TR-OAM-42-053a & 054a. The airplane flight manual was updated with Diamond Aircraft Supplement S03, Doc. No. 7.01-05E. A copy of AMM-TR-OAM-42-53a & 054a was provided for insertion into DA42 maintenance manual. Aircraft placards were verified and found to be correct. Aircraft can now be operated per Diamond Aircraft DA42 airplane flight manual, supplement S03.

-----END-----


John J. Blaha, Jr.
AP 2238954

AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR	ENGINEERING RECORD		OR COMPLETE
	HRS.	MIN.		REMARKS	REMARKS	
A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.						
BROUGHT FORWARD	TYPE: DIAMOND DA42			TACH TIME: 761.8 Hrs.		
	"N" #: N 153TS			AIRFRAME T.T: 761.8 Hrs.		
	DATE: 01/21/2009					
<p>At this time, the ECU backup batteries were replaced using Panasonic 12V 7.2Ah/20hr, 4ea P/N LC-R127R2P1. A functional test of the electrical system was conducted in accordance with WI-OSB-42-050 line 42.</p> <p style="text-align: center;">-----END-----</p>						
 John J. Blaha, Jr. AP 2238954						

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL						
	TYPE: DIAMOND DA42			TACH TIME: 787.8 Hrs.		
	"N" #: N 153TS			AIRFRAME T.T: 787.8 Hrs.		
	DATE: 04/14/2009					
<p>At this time, the aircraft was inspected and lubed in accordance with an Annual Inspection per Diamond Service Manuals. The wheel bearings were cleaned, inspected, and greased. One bearing, P/N 08125-2629, and race, P/N 08231-2629, were replaced on the nose wheel assembly. The LH main tire was replaced using a Goodyear FSII 15x6.0-6/120, P/N: 156-E61-3. The nose wheel was replaced using a Goodyear FSII 5.00-5 10ply, P/N 505C01-2. A gear retraction and emergency extension test was performed, no defects noted. The landing gear and wells were cleaned and lubed. The nose gear torque link hardware was inspected and tightened. The landing gear power pack and the brake reservoirs were serviced. The brakes were checked and found within limits. The rudder "S"-slides were lubed. The LH jack point base was replaced, P/N DV2-1200-00-02. The flap wells were cleaned. The TKS reservoir screen was cleaned and inspected. The cabin heat control arm inner cable was replaced. The excitation batteries were replaced 2ea. P/N: LCR 12-V 1.3P and is next due in 12 months. The emergency lithium battery pack is due for replacement March 2010. The aircraft battery was serviced and charged. The ELT model ME40, S/N: 00460, was inspected and tested in accordance with FAR 91.207(d)(1-4). The ELT battery is due for replacement Feb 2011. AD2008-23-08, effective 12-22-08, on engine mount bolts, was complied with by replacement of bolts with wire secured bolts, referencing WI-MSB-42-058, as terminating action using MSB-42-058-KIT. No further action required.</p> <p>Diamond MSB-42-070, on nose gear pivot assembly, was complied with by inspection, no gap noted, next inspection due in 100hrs at a tach time of 887.8hrs. -----CONTINUED</p>						

CARRIED FORWARD

ENGINEERING RECORD

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 04/14/2009

TACH TIME: 787.8 Hrs.
AIRFRAME T.T: 787.8 Hrs.

LICENCE
NUMBER

Diamond MSB-42-062/2, on downlock pin replacement, complied with action 2 of this bulletin by installation of improved pins using MSB-42-062-KIT. No further action required.

Diamond RSB-42-066, on aux tank check valve replacement, was complied with by installation of solenoid check valves in the RH and LH nacelles using RSB-42-066-KIT, referencing WI-RSB-42-066. Ops check ok. All AD's checked thru Bi-Weekly 2009-07.

-----END-----

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

Adam J. Cote

Adam J. Cote
AP 3035886

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

John J. Blaha Jr.

John J. Blaha Jr.
AP 2238954 IA

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 09/15/2009

TACH TIME: 848.8 Hrs.
AIRFRAME T.T: 848.8 Hrs.

Diamond MSB-42-070, on nose gear pivot assembly, was complied with by inspection, measured .020 in. gap, next inspection due in 100hrs at a tach time of 948.8hrs.

-----END-----

Adam J. Cote

Adam J. Cote
AP 3035886

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 03/05/2010

TACH TIME: 905.5 Hrs.
AIRFRAME T.T: 905.5 Hrs.

At this time, the RH and LH fuel filters were replaced. The cabin heat cable was replaced from the control arm to the center bellcrank. The right-hand main tire, Michelin P/N 072-449-0, and inner tube, P/N 097-500-0, were replaced. The LH and RH wing walks were replaced, LH P/N D60-1127-10-51_1 RH P/N D60-1127-10-52_1. All four ECU backup batteries were replaced, 4ea P/N LC-R127R2P. The aft cabin door was removed and reinstalled after repair from Diamond Aircraft Industries Inc. W/O# RO-10-017 dated 02/23/2010. The cabin defrost heat exchanger was replaced, P/N D60-2140-10-00-MOD.

MSB 42-070/1, on replacement of nose gear pivot tube, was complied with in accordance with WI-MSB-42-070/1 by replacement of tube, P/N D60-3233-82-00_01, and bearings, P/N GE10UK.

MSB 42-074/3, to prevent nose gear structure failure, was complied with in accordance with WI-MSB-42-074/3 by installation of reinforcement plate P/N D60-5340-61-00-SB.

-----END-----

John J. Blaha Jr.

John J. Blaha Jr.
AP 2238954

AIR TIME AND

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42
 "N" #: N 153TS
 DATE: 04/22/2010

TACH TIME: 917.6 Hrs.
 AIRFRAME T.T: 917.6 Hrs.

At this time, the aircraft was inspected and lubed in accordance with an Annual Inspection per Diamond Service Manuals. The wheel bearings were cleaned, inspected, and greased. A gear retraction and emergency extension test was performed, no defects noted. The landing gear and wells were cleaned and lubed. The nose gear torque link hardware was inspected and tightened. The landing gear power pack and the brake reservoirs were serviced. The brakes were checked and found within limits. The rudder "S"-slides were lubed. The main and nose gear dampeners were serviced with nitrogen. The TKS reservoir screen was cleaned and inspected. Both induction filters were replaced 2ea P/N RB-0700, RH replaced with serviceable unit with 165.2hrs of service remaining, and the LH was replaced with new. The excitation batteries were replaced 2ea. P/N: LC-R121R3P, and are next due for replacement 04/2011. The emergency lithium battery pack was replaced, P/N D60-2560-91-00, and is next due for replacement 04/2012. The aircraft battery was removed and a new Gill G243 S/N G02456113, was serviced, charged, and installed. The ELT model ME40, S/N: 00460, was inspected and tested in accordance with FAR 91.207(d)(1-4). The ELT battery is due for replacement Feb 2011. All AD's checked thru Bi-Weekly 2010-08.

END

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42
 "N" #: N 153TS
 DATE: 04/22/2010

TACH TIME: 917.6 Hrs.
 AIRFRAME T.T: 917.6 Hrs.

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

Adam J. Cote
 Adam J. Cote
 AP 3035886

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

John J. Blaha Jr.
 John J. Blaha Jr.
 AP 2236954 1A

I certify that the Altimeter/s and Static system tests required by FAR 91.411 have been performed in accordance with FAR 43, Appendix E.

Static System Test Date 05/21/2010
 Altimeter/s Tested to 20,000 ft. Date 05/21/2010
 Alt Reporting System Tested to 20,000 ft. Date 05/21/2010
 Work Order 2010-044

Signed *[Signature]* CRS#UOHR009X
 HELICOPTER SPECIALTIES, INC.
 4746 S. Columbia Drive
 Janesville, WI 53546

I certify that the ATC Transponder Tests and Inspection required by FAR 91.413 have been performed in accordance with FAR 43, Appendix F.

Unit S/N 89101869 Date 05/21/2010 Work Order 2010-044

Signed *[Signature]* CRS#UOHR009X
 HELICOPTER SPECIALTIES, INC.
 4746 S. Columbia Drive
 Janesville, WI 53546

ENGINEERING RECORD

6

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

SIGNATURE

LICENCE
NUMBER

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42

TACH TIME: 981.6 Hrs.

"N" #: N 153TS

AIRFRAME T.T: 981.6 Hrs.

DATE: 07/19/2010

MSB42-088, on MLG trailing arm block, was complied with by visual inspection on the LH and RH MLG blocks, no defects noted. The next inspection is due at the next 100hr service and every 100hr service thereafter.

-----END-----

John J. Blaha Jr.
John J. Blaha Jr.
AP 2238954

TACH OBSERVED AUG 24, 2010 1014.3.

WO # RO-10-125 A/C DA 42NG S/N: 42.118 Reg: N153TS TSN: 1015.0
 LHE Austro E4-B S/N: E4-B-00135 TSN: 0.00 Hrs.
 RHE Austro E4-B S/N: E4-B-00136 TSN: 0.00 Hrs.
 LH Prop. Mt-propeller MTV-6-R-C-F/187-129 S/N: 06094 TSN: 1015.0 Hrs.
 RH Prop. Mt-Propeller MTV-6-R-C-F/187-129 S/N: 06095 TSN: 1015.0 Hrs.

The Following work has been carried out:

Diamond Aircraft Industries GmbH issued Optional Service Bulletin 42-068/1, complied with using Materials kit Appendix A Rev. 5 and Appendix B Rev. 2.

LH propeller MTV-6-A-C-F/187-129, S/N 06094, TSN 1015.0 removed for model change from "A" to "R" flange I.A.W. MT Propeller SI No. 48C and reinstalled I.A.W. chapter 61 of DA 42 NG AMM Doc. # 7.02.15 Rev. 1.
 RH propeller MTV-6-A-C-F/187-129, S/N 06095, TSN 1015.0 removed for model change from "A" to "R" flange I.A.W. MT Propeller SI No. 48 C and reinstalled I.A.W. chapter 61 of DA 42 NG AMM Doc. # 7.02.15 Rev. 1. Dynamic balance of LH & RH propellers carried out.
 LH Thielert Engine TAE 125-01, S/N 02-01-0664 TSN:1015.0 removed and replaced with new "0" time Austro Engine model E4-B, S/N E4-B-00135 I.A.W. WI-OSB42-068 Rev. 6 Appendix 2 Rev. 1. RH Thielert Engine TAE 125-01, S/N 02-01-0665, TSN 1015.0 removed and replaced with new "0" time Austro Engine model E4-B, S/N E4-B-00136 I.A.W. WI-OSB42-068 Rev. 6 Appendix 2 Rev. 1. Ground run up of the Engines and fluid leak check performed and found satisfactory. Honeywell KAP140 autopilot system mechanical check and the system function check complied with. Landing gear installation carried out I.A.W. WI-OSB42-068 Rev. 6 Appendix 4. Landing Gear retraction check carried out I.A.W. DA 42NG current issue of AMM chapter 32. Electrical bonding check carried out. Pitot static & Transponder correlation check carried out. Airspeed indicator model code B864 removed and replaced with new unit model code B884 S/N 205337. Altimeter S/N 451353 removed & reinstalled after calibration check performed by Kitchener Aero Avionics. Compass swing carried out.

Radio's on: Liquid Compass

FOR	N	30	60	E	120	150
STEER	359	031	061	092	121	154
FOR	S	210	240	W	300	330
STEER	183	214	240	268	299	329

Aircraft reweighed:

New Empty weight = 1427. kg or 3146.0 lbs
 New E.W. C of G = 2.371 m or 93.35 in.
 New E. W. Moments = 3383.7 kg-m or 293691.6 in-lbs
 Max all up Weight = 1900 kg or 4189 lbs
 New useful Load = 473.0 kg or 1043.0 lbs

New weight and balance report and equipment list added to section 6 of the Current AFM Doc. # 7.01.15-E Rev. 2 dated November 2009. All Placards checked for conformance. All flight control surfaces checked for balance & travels.

This DA42 is converted to a DA42NG as per OSB42-068/1 and is eligible for TCDS A57CE Rev. 11 as per note 10.
 New Data Plate installed.

All snags noted during the above described tasks have been rectified and all pertinent details of the work carried out are on file with this work order.

The following DA1 service bulletins C/W during OSB42-068/1:

Austro Engine MSB-E4-006 - N/A due to eng. S/N affectivity
 Austro Engine MSB-E4-007 - N/A due to eng. S/N affectivity
 Austro Engine MSB-E4-008 - LH and RH eng. Oil separator hoses replaced with new C/W.
 Austro Engine MSB-E4-009 /AD 2010-23-09 - High pressure fuel inspection/replacement to be C/W @ 50 hrs. engine time.
 MSB42NG-002/4 - Software E4-B (AE300) engine Software version VC33_0_5_11 verified.
 MSB42NG-003/4 - G1000 software version update C/W.
 MSB 42NG-005/1 - Charged Air tube between Turbo charger & Intercooler C/W.
 MSB42NG-007 - Emergency Exit lever Insp. & map light sealant C/W.
 OSB42NG-008 - Installation of coated safety walk C/W.
 MSB42NG-010 - Installation of a protective mesh on coolant and charged air radiator C/W.
 OSB42NG-013 - Cowling with improved cooling performance C/W.
 MSB42NG-014 - Replacement of Passenger door retaining bracket C/W.
 MSB42NG-016 - Rudder control System & NLG steering reinforcement C/W. NOTE: Repetitive inspections terminated.
 MSB42NG-018 - Replacement of turbo connector Assy. C/W
 OSB42-020 - Modification to heating system improvement N/A due to A/C S/N.
 MSB42-074/3 - NLG box reinforcement C/W I.A.W. OSB42-068/1.
 MSB42-076 - Sealing of the LH and RH engine firewall holes N/A. No holes through FRP.
 MSB42NG-007 - Inspection of the Emergency exit lever C/W
 MSB42-031/1 - LH and RH MLG brace rib reinforcement C/W.
 MSB42-032/1 - Aux fuel tank vent hole insp. C/W
 MSB42-043/1 - Replacement of aileron bellcrank rod ends PCW.
 MSB42-062/1 - Replacement of landing gear down lock pins PCW.
 MSB42-063/1 - Insp. & modification of the NLG N/A due to S/N affectivity.
 MSB42-070/1 - NLG pivot tubular Assy. N/A on DA42NG NLG Assy.
 RSB42-025 - Improved fuel probes installation C/W.
 RSB42-029 - Additional position pins for canopy C/W.
 RSB42-066 - LH & RH aux tanks check valve and solenoid C/W.
 MT Propeller SI48C - LH and RH propeller modification from "A" flange to "R" flange C/W.
 Garmin MSB 0823 Rev.C - GDU CRS/BARO knob interference check C/W
 AD 2010-11-09 - Proportional Pressure reducing Valve N/A to Austro Engines
 AD 2010-14-21 - Oil blow by separator N/A to Austro Engines
 AD 2010-23-09 - High pressure fuel pump fuel oscillation check. NOTE: Due at 50 Hrs. Engine time.
 AWDS checked through Bi-Weekly Supplement 2010-25

ENGINEERING RECORD

7

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

SIGNATURE

LICENCE
NUMBER

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

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

This aircraft is released subject to the completion of a satisfactory test flight for the evaluation of flight, engine and avionics performance.

Signature: [Signature]

Lic or Stamp:

DA
R06



Position: #1: ☐
#2: ☐

AMO 1-77

Altimeter Calibration Test Record

Work Order #: K41902

Altimeter S/N: 451353

Altitude (Feet)	Tol (+/- Ft)	Altimeter Reads
-1000	20	-15
0	20	-6
500	20	+1
1000	20	-2
1500	25	+4
2000	30	+4
2500	30	+6
3000	30	+4
4000	35	-1
6000	40	-26
8000	60	-41
10000	80	-57

Altitude (Feet)	Tol (+/- Ft)	Altimeter Reads
12000	90	-58
14000	100	-44
16000	110	-29
18000	120	-6
20000	130	+29
22000	140	--
25000	155	--
30000	180	--
35000	205	--
40000	225	--
45000	230	--
50000	280	--

Hysteresis 31
Case Leak 0
Date 05-Oct-10

Friction 50
After Effect 12
Completed By [Signature]

WO # RO-10-125 A/C DA 42NG S/N: 42118 Reg: N153TS TSN: 1015.0
 LHE Austro E4-B S/N: E4-B-00135 TSN: 0.00 Hrs.
 RHE Austro E4-B S/N: E4-B-00136 TSN: 0.00 Hrs.
 LH Prop. Mt-propeller MTV-6-R-C-F/187-129 S/N: 06094 TSN: 1015.0 Hrs.
 RH Prop. Mt-Propeller MTV-6-R-C-F/187-129 S/N: 06095 TSN: 1015.0 Hrs.

The Following work has been carried out:
 1000 hr inspection carried out I.A.W. DA42NG AMM Doc. 7.02.15 Rev. 7 chapter 04-00-00. **ELT annual performance check** carried out. **Next check due Nov. 2011, ELT batteries expire Dec. 2013.** Emergency battery package replaced with new. Next replacement due Nov. 2012. New ECU backup batteries installed. Next replacement due Nov. 2011. Autopilot mechanical check carried out. Next due at TTAF 1515.0 Hrs. Altimeter S/N 451353 removed and reinstalled after calibration check carried out by Kitchener Aero Avionics. Next calibration check due Oct. 2012 or TTAF 2015.0 hrs. **Pitot static and transponder correlation checks** carried out. Next check due Nov. 2012 or TTAF 2015.0 Hrs.
 Magnetic compass swing carried out.

Radio's on: Liquid Compass

FOR	N	30	60	E	120	150
STEER	359	031	061	092	121	154
FOR	S	210	240	W	300	330
STEER	183	214	240	268	299	329

Electrical bonding system and static discharging system check carried out. Next check due TTAF 2015 Hrs. or Nov. 2014.
 LH and RH fuel filter elements replaced with new. **Brake fluid drained and replenished with new fluid 4 brakes bleeding** carried out. Next fluid replacement due Nov. 2013. **Hydraulic fluid in landing gear chambers** replaced with new. Next fluid change due Nov. 2012. Hydraulic fluid in hydraulic system replaced with new. Next fluid change due Nov. 2012. LH & RH MLG brake discs and brake pads replaced with new. NLG LH bearing replaced with new. Gear retraction check carried out, found satisfactory. TKS system FIKI test carried out. Wind shield de-ice system pump #1 replaced with a new unit S/N AST06K1952. New airspeed indicator S/N 205337 code B884 with limitation markings in conformance with OSB42-068/1 and AFM limitations section 2.3 Installed. **Fuel hoses interconnecting the individual fuel tank chambers and fuel hoses connecting the fuel tank chambers to filler assemblies** replaced with new. Next replacement due Nov. 2018. Both LH and RH newly installed engines serviced with 7 liters each Shell Helix 5W30 oil. LH and RH gearbox serviced with 2 liters each Shell Spirax GSX 75W80 oil. Wings removed and fuel tanks reworked I.A.W. OSB42-068/1. Wings inspected as per AMM chapter 05 inspection sheets and wings reinstalled. Control surfaces travel checks carried out. Rudder and stab removed inspected and reinstalled. Landing gear retraction check carried out and all audible warnings checked for operation.

All snags notated during the above described tasks have been rectified and all pertinent details of the work carried out are on file with this work order.

Following AWD's and SB's checked and complied with as applicable:

Austro Engine MSB-E4-006 - N/A due to eng. S/N affectivity
 Austro Engine MSB-E4-007 - N/A due to eng. S/N affectivity
 Austro Engine MSB-E4-008 - LH and RH eng. Oil separator hoses replaced with new C/W.
 Austro Engine MSB-E4-009 - LH & RH High Pressure Fuel Pumps fuel oscillation check, NOTE: Due at 50 hrs. Engine time
 MSB42NG002/5 - Software E4-B (AE300) engine verified Software version VC33_0_5_11
 MSB42NG-003/4 - G1000 software version update C/W.
 MSB 42NG-005/1 - Charged Air tube between Turbo charger & Intercooler C/W.
 MSB42NG-007 - Emergency Exit lever Insp. & map light sealant C/W.
 OSB42NG-008 - Installation of coated safety walk C/W.
 MSB42NG-010 - Installation of a protective mesh on coolant and charged air radiator C/W.
 OSB42NG-013 - Cowling with improved cooling performance C/W.
 MSB42NG-014 - Replacement of Passenger door retaining bracket C/W.
 MSB42NG-016 - Rudder control System & NLG steering reinforcement C/W. NOTE: Repetitive inspections terminated.
 MSB42NG-018 - Replacement of turbo connector Assy. C/W
 OSB42-020 - Modification to heating system improvement N/A due to A/C S/N
 MSB42-074/3 - NLG box reinforcement C/W I.A.W. OSB42-068/1.
 MSB42-076 - Sealing of the LH and RH engine firewall holes N/A no holes through FRP.
 OSB42-015/4 - Flight into known icing test of the TKS system C/W.
 MSB42-031/1 - LH and RH MLG brace rib reinforcement PCW.
 MSB42-032/1 - Aux fuel tank vent hole insp. C/W.
 MSB42-043/1 - Replacement of aileron bellcrank rod ends PCW.
 MSB42-062/1 - Replacement of landing gear down lock pins PCW.
 MSB42-063/1 - Insp. & modification of the NLG N/A due to S/N affectivity.
 MSB42-070/1 - NLG pivot tubular Assy. N/A on DA42NG NLG Assy.
 RSB42-025 - Improved fuel probes installation C/W.
 RSB42-029 - Additional position pins for canopy C/W.
 RSB42-066 - LH & RH aux tanks check valve and solenoid C/W.
 MT Propeller SI48C - LH and RH propeller modification from "A" flange to "R" flange C/W.
 Garmin MSB 0823 Rev.C - GDU CRS/BARO knob interference check C/W.
 AD 2008-16-20 - Replacement of Aileron bellcrank rod ends. PCW.
 AD 2010-11-09 - Proportional Pressure reducing valve N/A to Austro Engines.
 AD 2010-14-21 - Oil blow by separator N/A to Austro Engines.
 AD 2010-23-09 - High pressure fuel pump fuel oscillations check, NOTE: Due at 50 hrs. Engine time
 AWDS checked through BI-Weekly Supplement 2010-25

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

CONTINUED NEXT PAGE: ↑

ENGINEERING RECORD

9

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

SIGNATURE

LICENCE
NUMBER

I have carried out an independent inspection of the Flight controls/Powerplant controls affected by the work accomplished.

Signature: B. Abbersh Lic or Stamp:

DA
RO12

This aircraft is released subject to the completion of a satisfactory test flight for the evaluation of flight, engine and avionics performance.

Signature: B. Abbersh Lic or Stamp:

DA
RO6



Date: November 29, 2010

WO # RO-10-125 A/C DA 42NG S/N: 42.118 Reg: N153TS TSN: 1015.0
LHE Austro E4-B S/N: E4-B-00135 TSN: 0.00 Hrs.
RHE Austro E4-B S/N: E4-B-00136 TSN: 0.00 Hrs.

The following work carried out

Propeller governors replaced with new units
LHE propeller governor P/N P-877-16 S/N 10G160FD removed P/N P-877-16 S/N 10G406FD installed
RHE propeller governor P/N P-877-16 S/N 10G161FD removed P/N P-877-16 S/N 10G405FD installed
Engines ground run and propeller governors self test function tested satisfactory.

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

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: B. Abbersh Lic or Stamp:

DA
RO12



Date: November 29, 2010
Aircraft Total Time: 1015.0 hours

I certify that this aircraft DA 42 NG Serial Number 42.118 has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Jarred Curtis

AP 2878024 IA

AIR TIME AND

[illegible]

DEC 16 2010	0	.6	1017	.1
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1017.1

ENGINEERING RECORD

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION



Date: November 30, 2010 S/N: 42.118 REG : N153TS TSN : 1016.5 Hrs.
W/O RO-10-125

The following additional work carried out:
LH aileron and flap short rods lengthened by 1/2 turn at the rod ends.
Stall Vane adjusted 1mm down.
I have carried out an independent check of the flight controls affected by
the work accomplished.

Signature  Lic. or Stamp

This aircraft is released subject to the completion of a satisfactory test flight for the evaluation of Flight, Engine, & Avionics performance

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

Signature *Edna K. Kuroki* Lic or Stamp



Date: December 16, 2010 S/N: 42.118 REG: N153TS TSN :1017.1
Engine E4-B Ser. No. E4-B-00136 Engine TSN: 2.1 Hrs.

The following additional work carried out by Diamond Aircraft Industries Inc. Service centre Dept.

Glow Plug Control box unit P/N E4A-94-200-000-020 S/N. 000200 removed & replaced with anew unit S/N. 000050.
Ground run up of the engine performed found to be satisfactory.

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

DIAMOND AIRCRAFT INDUSTRIES INC. D.O.T. APPROVAL #161-93

Signature [Signature] Lic or Stamp

CARRIED FORWARD

ENGINEERING RECORD

10

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

SIGNATURE

LICENCE
NUMBER

3-11-2011, TACH 1056.8, N153TS, The aircraft
Battery was removed and a new Gill
Gill 243 S/N 62535202, was serviced,
charged, and installed.

[Signature]

COM.
2733827

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 03/25/2011

TACH TIME: 1076.5 Hrs.
AIRFRAME T.T: 1076.5 Hrs.

At the time, the RH fuel filter was replaced, P/N WK-724 3. The cabin defrost cable, from the control arm to the bellcrank was replaced, P/N T22700034. Ops check normal, no leaks noted.

-----END-----

[Signature]
John J. Blaha Jr.
AP 2238954

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 04/29/2011

TACH TIME: 1100.6 Hrs.
AIRFRAME T.T: 1100.6 Hrs.

At the time, the left-hand fuel temp probe was replaced, P/N S102511PFY24S, using new gasket. Leak and ops checked. The trim wheel control chain was reinstalled and the tension adjusted as needed.

-----END-----

[Signature]
Adam J Cote AP3035886

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 05/16/2011

TACH TIME: 1107.5 Hrs.
AIRFRAME T.T: 1107.5 Hrs.

At this time, both fuel filters were changed using 100hr service kit, P/N DA42-AE-100KIT. The ECU connectors were removed, inspected, and reinstalled.

-----END-----

[Signature]
Adam J Cote
AP3035886

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					

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 11/10/2011

TACH TIME: 1201.8 Hrs.
AIRFRAME T.T: 1201.8 Hrs.

At this time, both main tires, P/N 072-449-0, and tubes, P/N 097-500-0 were replaced. The main wheel bearings were removed, cleaned, inspected, greased and reinstalled. The both brake calipers were rebuilt using new o-rings, P/N MS28775-222. The brakes were serviced and bled.

-----END-----

John J. Blaha Jr.
John J. Blaha Jr.
AP 2238954

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42-NG
"N" # N 153TS
DATE: 12/09/2011

TACH TIME: 1223.1 Hrs.
AIRFRAME TT: 1223.1 Hrs.

At this time, the airframe was opened and cleaned for inspection. All components were inspected in accordance with a **100HR/ANNUAL INSPECTION** per Diamond Service Manual. The nose wheel bearings were cleaned, inspected, and greased. The landing gear legs were cleaned and lubed. The hydraulic power pack and brake reservoir fluid level was checked, no service needed. The gear retraction and emergency extension tests were performed, no defects noted. Both induction filters were replaced, P/N RU-1620, **the next replacement is due at 1423.1 hrs.** The rudder cable tensions were checked. The rudder hinge, torque plate, return springs, s-slides, and pedal assemblies were cleaned and lubed. The elevator and rudder trim friction was checked. The TKS reservoir screen was inspected and cleaned. The aircraft battery was charged and serviced. The Artex ELT, M/N: ME406, S/N: 00460, was inspected and tested in accordance with FAR 91.207 (d) (1-4). **The ELT battery is due 12/2013.** Both fuel filters were replaced and are next due for replacement at 1323.1hrs. Both main fuel filler cap water seals were replaced, 2ea P/N BS534. The emergency (lithium) backup battery voltage was checked and **replacement is due at 10-2012.** Both aft (white) nav light bulbs were replaced, 2ea P/N 34-0428070-64. All engine safety ropes were repositioned and cages were inspected and cleaned. The induction hoses, pressure side, and alternate air cables were repositioned to prevent chaffing on both engines. The cabin defrost cable, from control to bellcrank, was replaced. The alternate air cable, from bellcrank to air box, was removed, the housing and cable was cleaned and lubricated, the cable was reinstalled, and the cable from control to bellcrank, was replaced. The defective pitot mast assembly was replaced, P/N D60-3417-10-00. -----

-----CONTINUED-----

CARRIED FORWARD

ENGINEERING RECORD

11

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

LICENCE
NUMBER

TYPE: DIAMOND DA42-NG
"N" # N 153TS
DATE: 12/09/2011

TACH TIME: 1223.1 Hrs.
AIRFRAME TT: 1223.1 Hrs.

The engine mount to firewall bolt torque was checked. A known ice functional test was performed and all system components operate normal. The ECU backup batteries, 4ea P/N LC-R127R2P1, were replaced and are next due 12/2012. All AD's checked thru BI-weekly 2011-23. AD2011-10-13, effective 06/17/2011, on pax door retaining bracket, was previously complied with by Diamond Aircraft, at 1015.1hrs 11-24-2010, in accordance with MSB42NG-014. MSB42NG-024, engine safety ropes, was complied with in accordance with WI-MSB42NG-024 by removal of safety ropes and inspection of engine cages, no defects noted.

END

I certify this AIRCRAFT has been inspected in accordance with a
100HR INSPECTION and was determined to be in an airworthy condition.

Adam J. Cote
AP 3035886

I certify this AIRCRAFT has been inspected in accordance with an
ANNUAL INSPECTION and was determined to be in an airworthy condition.

John J. Blaha Jr.
AP 2238954 IA

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42
"N" #: N 153TS
DATE: 04/04/2012

TACH TIME: 1328.4 Hrs.
AIRFRAME T.T: 1328.4 Hrs.

SILD42NG-001, correction of data plate, was complied with by removal of data plate and installation of original data plate and revision data plate P/N DS_STP-1.

END

John J. Blaha Jr.
AP 2238954

AIR TIME AND

DATE	DAILY TOTAL	TOTAL AIR TIME	NUMBER OF HOURS	REMARKS	COMPLETE
				A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL.	
				TYPE: DIAMOND DA42 "N" #: N 153TS DATE: 05/17/2012	
				TACH TIME: 1328.4 Hrs. AIRFRAME T.T: 1328.4 Hrs. AIRFRAME S/N: 42.118	

At this time, the LH cowl oil access door latch seal was replaced and the latch was adjusted. The RH cowl oil access door latch assembly was replaced with new, P/N D64-7116-60-00. The cabin defrost control system was disassembled, all bellcranks and cables were lubricated, and the system was reassembled, ops check normal. The LH wing was disassembled and removed. The fuel tank assembly was disconnected and removed, the outboard fuel sender, P/N D60-2817-14-00_1, and the inboard fuel sender, P/N D60-2817-13-00_1, were replaced with new, and installed using a new o-rings. The tank anti-chafe tape was replaced as needed. The fuel tank assembly was installed in the wing and the wing was installed onto the aircraft. All connections were assembled and the fuel tank was filled and checked for leaks, none noted. The top two ice protection panels on the LH forward fuselage were replaced, 2ea P/N D60-1123-20-24. The LH and RH Alternators were removed and replaced with new as per 300hr inspection, LH installed P/N E4A-91-000-000 Iss:010 S/N 00773, and RH installed P/N E4A-91-000-000 Iss:010 S/N 00770. The next 300hr inspection is due at 1628.4hrs. The next 100hr service is due at 1428.4hrs.

RSB42NG-017/1, on improved MLG dampener seals, was complied with by replacement of seals in both MLG dampeners in accordance with **WI-RSB42NG-017**. The dampeners were serviced with hydraulic fluid and nitrogen to the proper pressure. Both dampeners were painted with a red dot for identification of compliance with this bulletin.

MSB42NG-026, on replacement of the MLG dampener nut, was complied with at this time by complying with **MSB42NG-017/1**.

END

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL.

TYPE: DIAMOND DA42	TACH TIME: 1328.4 Hrs.
"N" #: N 153TS	AIRFRAME T.T: 1328.4 Hrs.
DATE: 05/17/2012	AIRFRAME S/N: 42.118

Adam J Cote
 Adam J Cote
 AP3035886

Federal Aviation Administration
Flight Standards District Office
4915 South Howell Avenue
Milwaukee, Wisconsin 53207

Aircraft Make: Diamond Aircraft Ind. GmbH
 Model: DA 42 NG. S/N: 42.118. Registration: N153TA.

I find that this Aircraft meets the requirements of the certificate requested and have issued an Amended Standard Airworthiness Certificate dated 04/16/2012 due to aircraft model change.

Timothy H. Anderson
 Timothy H. Anderson
 Aviation Safety Inspector AGL-FSDO-13

CARRIED FORWARD

ENGINEERING RECORD

12

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE
NUMBER

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

I certify that the Altimeter/s and Static system tests required by FAR 91.411 have been performed in accordance with FAR 43, Appendix E.

Static System Test Date 10/05/2012
Altimeter/s Tested to 20,000 ft. Date 10/05/2012
Alt Reporting System Tested to 20,000 ft. Date 10/05/2012
Work Order 2012-115

Signed Detach CRS#UOHR009X
HELICOPTER SPECIALTIES, INC.
4746 S. Columbia Drive
Janesville, WI 53546

I certify that the ATC Transponder Tests and Inspection required by FAR 91.413 have been performed in accordance with FAR 43, Appendix F.

Unit S/N 89101869 Date 10/05/2012 Work Order 2012-115

Signed Detach CRS#UOHR009X
HELICOPTER SPECIALTIES, INC.
4746 S. Columbia Drive
Janesville, WI 53546

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42-NG
"N" # N 153TS
DATE: 11/09/2012

TACH TIME: 1434.0 Hrs.
AIRFRAME TT: 1434.0 Hrs.

At this time, both fuel filters were changed using 100hr kit, P/N DA42-AE-100KIT. The alternate air cable, from control to bellcrank, was replaced. The emergency (lithium) battery pack was replaced, P/N D60-2560-91-00, next replacement is due 11/2014. Both induction filters were replaced, 2ea P/N RU-1620, next due in 200hrs at 1634.0hrs.

-----END-----

Adam J Cote
Adam J Cote
AP 3035886

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42-NG
"N" # N 153TS
DATE: 01/10/2013

TACH TIME: 1474.8 Hrs.
AIRFRAME TT: 1474.8 Hrs.
AIRFRAME S/N: 42.118

At this time, the airframe was opened and cleaned for inspection. All components were inspected in accordance with a 100HR/ANNUAL INSPECTION per Diamond Service Manual. The wheel bearings were cleaned, inspected, and greased. Both main tires were replaced, 2ea P/N 072-449-0. The landing gear legs were cleaned and lubed. All brake linings were replaced 8ea P/N APS66-10500. The hydraulic power pack and brake reservoir fluid level was checked, no service needed. The nose strut was serviced with nitrogen to 232psi. A gear retraction and emergency extension tests were performed, no defects noted. The rudder cable tensions were checked. The rudder hinge, torque plate, return springs, s-slides, and pedal assemblies were cleaned and lubed. The pilot side rudder pedal adjust cable was replaced, P/N 20-2700-21-00. The flap up position indicator lamp was replaced, P/N T4.6 24-20. The elevator and rudder trim friction was checked. The TKS reservoir screen was inspected and cleaned. The aircraft battery was charged and serviced. The Artex ELT, M/N: ME406, S/N: 00460, was inspected and tested in accordance with FAR 91.207 (d) (1-4). The ELT battery is due 12/2013. All engine safety ropes were repositioned and cages were inspected and cleaned. The alternate air inner cable, from bellcrank to RH induction box, was removed, the housing and cable were cleaned and lubricated, and the cable was reinstalled. The alternate air cable from control lever to bellcrank was replaced, and the entire system was rigged. A known ice functional test was performed and all system components operate normal. The cowling fireproof paint was touched up as needed. The emergency (lithium) backup battery voltage was checked and replacement is due at 11/2014. The ECU backup batteries, 4ea P/N LC-R127R2P1, were replaced and are next due 01/2014. All AD's checked thru BI-weekly 2013-01.

-----CONTINUED-----

AIR TIME AND

DATE	BROUGHT FORWARD	A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL	TACH TIME: 1474.8 Hrs. AIRFRAME TT: 1474.8 Hrs. AIRFRAME S/N: 42.118
		TYPE: DIAMOND DA42-NG "N" # N 153TS DATE: 01/10/2013	
<p>AD2012-17-07, effective 10-11-2012, on excessive adhesive voids, was complied with by tap test and mapping in accordance with MSB42NG-022, results sent to Diamond Aircraft for review, normal flight permitted at this time.</p> <p style="text-align: center;">-----END-----</p> <p>I certify this AIRCRAFT has been inspected in accordance with a 100HR INSPECTION and was determined to be in an airworthy condition.</p> <p style="text-align: center;"><i>Adam J. Cote</i> Adam J. Cote AP 3035886</p> <p>I certify this AIRCRAFT has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in an airworthy condition.</p> <p style="text-align: center;"><i>John J. Blaha Jr.</i> John J. Blaha Jr. AP 2238954 IA</p>			

A & M Maintenance Services, Inc. - 1C5 Clow International Airport, Bolingbrook, IL			
TYPE:	DIAMOND DA42-NG	TACH TIME:	1512.9 Hrs.
"N" #	N 153TS	AIRFRAME TT:	1512.9 Hrs.
DATE:	05/24/2013	AIRFRAME S/N:	42.118
<p>At this time, the airframe was opened and cleaned for inspection. All components were inspected in reference with a 100HR/ANNUAL INSPECTION per Diamond Service Manual. The wheel bearings were cleaned, inspected, and greased. The landing gear legs were cleaned and lubed. The hydraulic power pack and brake reservoir fluid levels were checked, no service needed. The nose strut was serviced with nitrogen to 232psi. A gear retraction and emergency extension tests were performed, no defects noted. The rudder cable tensions were checked, no adjustment needed. The rudder hinge, torque plate, return springs, s-slides, and pedal assemblies were cleaned and lubed. The elevator and rudder trim frictions were checked. The TKS reservoir screen was inspected and cleaned. The LH fuel temperature sensor wire connection terminals were replaced with new, ops check good. Both alternate air doors were adjusted for full travel. The aircraft battery was charged and serviced. The Artex ELT, M/N: ME406, S/N: 00460, was inspected and tested in accordance with FAR 91.207 (d) (1-4). The ELT battery is due 12/2013. All engine safety ropes were repositioned and cages were inspected and cleaned. A known ice functional test was performed and all system components operate normal. The emergency (lithium) backup battery voltage was checked and is due for replacement at 10-2012. The ECU backup battery system voltage was checked and are due for replacement 01/2014. All AD's checked thru BI-weekly 2013-09.</p> <p>AD2013-07-01, effective 05/20/2013, on overextension of the main landing gear dampeners, was previously complied with, 05/17/2012 at 1328.4hrs, by complying with MSB42-017/1.</p> <p>AD2013-06-02, effective 04/08/2013, on engine induction filter icing, was previously complied with by the owner/operator by installation of AFM revisions.</p> <p style="text-align: center;">-----CONTINUED-----</p>			

CARRIED FORWARD

ENGINEERING RECORD

13

A & M Maintenance Services, Inc. - 1C5
Clow International Airport, Bolingbrook, IL

TYPE: DIAMOND DA42-NG
"N" # N 153TS
DATE: 05/24/2013

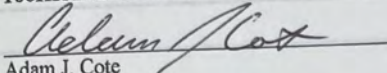
TACH TIME: 1512.9 Hrs.
AIRFRAME TT: 1512.9 Hrs.
AIRFRAME S/N: 42.118

LICENCE
NUMBER

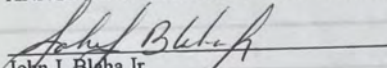
MSB42NG-035/1, nose gear actuator bearing and safety washer, was complied with by inspection, S/N 0822 installed, improved washer and bearing installed, repositioned safety wire and inspected nose gear housing, no damage noted.

END

I certify this AIRCRAFT has been inspected in accordance with a
100HR INSPECTION and was determined to be in an airworthy condition.


Adam J. Cote
AP 3035886

I certify this AIRCRAFT has been inspected in accordance with an
ANNUAL INSPECTION and was determined to be in an airworthy condition.


John J. Blaha Jr.
AP 2298954 IA

American Avionics 7023 Perimeter Rd. Seattle, Wa 98108

Date: 31October2013_Diamond_DA42NG_N153TS_SN: 42.118_TTiS: 1541.5

MFD Replacement:

Replaced existing GDU1040 p/n 011-00972-03 s/n 88900766 with newly overhauled GDU1040 p/n 011-00972-03 s/n 88901283 in accordance with Garmin G1000 System Maintenance Manual p/n 190-00907-00 Rev E.

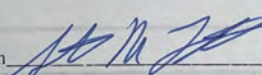

Garmin G1000 System software update:

Complied with Diamond Mandatory Service Bulletin NO. **MSB 42NG-003/13** by installing G1000 System software v0670.10 in accordance with Garmin G1000 System Maintenance Manual p/n 190-00907-00 Rev E.

This aircraft was inspected in accordance with applicable maintenance rules and current FAA Regulations. With regard to the work performed, this aircraft is approved for return to service.

Details on file under WO# A14393.

Steven M. Lattin
Inspector
CRS# 1AMR980Y

American Avionics 7023 Perimeter Rd. Seattle, Wa 98108

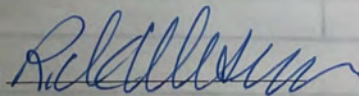

Date: 19September2013_Diamond_DA42NG_N153TS_SN: 42.118_TTiS: 1549.4

Removed defective GEA 71 p/n 011-00831-00 s/n 46703729 and replaced with newly overhauled GEA 71 p/n 011-00831-00 s/n 46708243 in accordance with Garmin G1000 System Maintenance Manual p/n 190-00907-00 Rev E.

This aircraft was inspected in accordance with applicable maintenance rules and current FAA Regulations. With regard to the work performed, this aircraft is approved for return to service.

Details on file under WO# 93876.

Rick Wiseman
Inspector
CRS# 1AMR980Y

9/13/2013

N153TS

Aircraft: Diamond DA42-NG

S/N-42.118

TACH: 1541.5

Removed defective TKS level sending unit and installed a new sending unit P/N-D60-3013-25-00 using new gaskets and hardware supplied in Kit-N05-801-432 I/A/W Diamond DA42-NG M/M. Removed and replaced burned out position light P/N-34-0428020-65 (1ea.) in Starboard position I/A/W DA42-NG M/M. Operational check satisfactory.

Signature

A&P

2775150

COMPLET

**AMERICAN
AVIONICS**

11/14/2013

N153TS

Aircraft: Diamond DA42

S/N-42.118

TACH: 1549.4

Removed worn L/H main gear tire Condor 15X6.00-6 6ply P/N-072-449-0 S/N-2189S00453 and installed a new tire on L/H main gear Goodyear Flight Special 2 15X6.00-6 6ply P/N156E61-3 S/N-31412121. Maintenance and servicing performed I/A/W DA42 M/M.

Signature

A&P

2775150

**AMERICAN
AVIONICS**

12/5/2013

N153TS

Aircraft: Diamond DA42

S/N-42.118

TACH: 1550.8

Removed main battery Gill P/N-G-243 S/N-G02535202 and installed a new main battery Gill P/N-G243 S/N-G02801697. Maintenance performed I/A/W Gill battery servicing instructions and DA42 M/M.

Signature

A&P

2775150

**AMERICAN
AVIONICS**

02/04/2014

N153TS

D42 S/N 42.118

1550.8 Tach & TTAF

Removed stall warning lift detector P/N C-99701-1, S/N 241. Installed same lift detector, P/N C-99701-1, S/N 241, after overhaul by Safe Flight Instrument Corp, CRS# QA1R419K, work order #38548. Set stall warning position with Diamond DA42 stall warning installation gauge tool P/N D60-2737-11-00. Ground functional check was good.

Signature

Certificate

A#3407955

**AMERICAN
AVIONICS**

02/04/2014

N153TS

Diamond DA42

S/N-42.118

TACH: 1550.8

Serviced landing gear accumulator with nitrogen IAW DA42 AMM chapter 29-00-00.

Signature

A&P

3155315

CARRIED FORWARD

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

SIGNATURE

LICENCE
NUMBER

Date: 01/31/14 DIAMOND DA 42 NG N153TS SN: 42.118

Installed Avidyne TAS615 Traffic option in accordance with FAA Form 337 of this date.

Processor p/n: 70-2420-8TAS615 s/n: M135009528

Transponder Coupler p/n: 70-2040 s/n: M135009653

Antenna p/n: S72-1750-31L s/n: 11059 (upper)

Antenna p/n: S72-1750-32L s/n: 11085 (lower)

This aircraft was inspected in accordance with applicable maintenance rules and current FAA Regulations. With regard to the work performed, this rotorcraft is approved for return to service.

Details on file under WO# 125158.

Inspector
CRS# 1AMR980Y

American Avionics 7023 Perimeter Rd. Seattle, Wa 98108

Date: 4/14/2014 Tail# N153TS A/C Type: DA42-NG Acft Time: 1562.7 Ldg:

Work Performed : REPLACED FPS CONNECTOR AND HARNESS ON LEFT AND RIGHT ENGINES WITH NEW PARTS FROM KIT E4A-90-R18-000
IAW: AUSTRO MM E4.08.04 REV 19

This aircraft was inspected and repaired in accordance with applicable maintenance rules and current FAA Regulations and in regards to the work performed is approved for return to service. Details are on file under

work order number : 94211

Signed

DANA GERRY CRS# 1AMR980Y

-A Insured & satisfied
3 week lead

321-751-8445 Mike
321-751-8432 Joe

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					

AMERICAN AVIONICS

07/10/2014

N153TS

DA42NG S/N 42.118

1562.7 Tach & TTAC

Performed annual inspection in accordance with FAR 91.409(a) and FAR 43 appendix D. Referencing Diamond DA42NG maintenance manual.

Installed a 2 new engine fuel filters, P/N WK724_3.

Installed 4 new ECU back up batteries, P/N LC-R127R2P. Next replacement due July 2015.

Installed a new ELT battery, P/N 455-0012. Inspected and functionally checked ELT per FAR 91.207(d), and found to be airworthy.

Removed right wing. Removed and cleaned inboard fuel quantity probe. Reinstalled probe with a new o-ring seal. Installed right wing and secured all hardware, TKS lines, and electrical connections. Operational check of right fuel quantity indication was good.

Serviced brake reservoirs. Serviced all wheel bearings. All gear retraction and extension checks good.

AD 2013-19-11 and associated Diamond MSB42NG-035/1 not applicable by nose gear actuator serial number.

AD 2014-04-04 previously complied with per compliance with Diamond MSB42NG-003/13 by American Avionics, WO# A14393, dated Oct. 31, 2010. Operational check of both "ALTN FAIL" indications per service bulletin instructions was good.

MSB42NG-016/1 Rudder control system and steering reinforcement was complied with by Diamond Aircraft Nov. 24, 2010, 1015.0 TT per MSB42NG-016.

MSB42NG-018/1 Replacement of turbo connector assembly was complied with by Diamond Aircraft Nov. 24, 2010, 1015.0 TT per MSB42NG-018.

MSB42NG-002/12 complied with July 1, 2014 by compliance with Austro RSB-E4-003/13. Updated both engines EECU software to version VC33_0_05_17.

AD's checked through issue 2014-13.

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

Signature *Andrew Ben*

Certificate AP3407955 IA

AMERICAN AVIONICS

Date:	12/16/14	Registration:	N153TS
Aircraft Make:	Diamond	Aircraft S/N:	42.118
Aircraft Model:	DA42-NG	ACTT:	1566.5

Removed main battery P/N-G243. Charged main battery. Installed main battery P/N-G243. Main battery functional check was satisfactory.

Signature *Chris Cardner*

A&P 2725150

CARRIED FORWARD

ENGINEERING RECORD

15

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

SIGNATURE

LICENCE
NUMBER

American Avionics 7023 Perimeter Rd. Seattle, Wa 98108
206 763 8530

N 153TS

CERTIFIED AIRWORTHY
As required by FAR Part 91.411
FAR Part 91.413

Performed in accordance with FAR Part 43 appendices "E" and "F".

2 Altimeter to 20000 Ft. IAW part 43 Appendix "E", paragraph "b"
1 Integrated Systems Test IAW Part 43 Appendix "E", paragraph "c"
1 Static System Test IAW Part 43 Appendix "E", paragraph "a"
1 ATC Transponder Test Made "S" IAW Part 43 Appendix "F"

W/O A15588 Date 01/16/2015

Signed Vitaliy Vityolko Inspector CRS# 1AMR980Y



Date:	3/27/2015	Registration:	N153TS
Aircraft Make:	Diamond	Aircraft S/N:	42.118
Aircraft Model:	DA42-NG	ACTT:	1566.5

Complied with Austro MSB-E4-003/16 and Diamond MSB-42NG-002/13 by updating EECU software to version VC33_0_05_18 using instructions in MSB-E4-003/16. L/H and R/H EECU's were updated. Engine operational checks were satisfactory.

Signature Jim Gardner A&P 2775150

AMERICAN AVIONICS, 7023 PERIMETER RD. SEATTLE, WA 98108

Make/Model: **Diamond DA 42NG** Hobbs: **N/A**
Serial Number: **42.118** Tach: **1566.5**
Registration Number: **N153TS** Date: **31 March 2015** Work/Order: **A15751**

Verified software and manifest per DIA MSB 42NG-003/17. Tested ALTN FAIL per WI-MSB 42NG-003 rev. 0 steps 92 - 99.

This aircraft was inspected and repaired in accordance with applicable maintenance rules and current FAA Regulations and in regards to the work performed is approved for return to service. Details are on file under work order number : A15751

Signed Rick Wiseman Inspector (9) CRS# 1AMR980Y

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					
May 12, 2015					VOR check, 991.171, KBEI, VOT 108.6, 0° bearing error



**ARLIN'S AIRCRAFT
SERVICE, INC.**

36 GALLATIN FIELD, BELLEVILLE, NY 12014 (RZ2)
(609) 388-1331, FAX (609) 388-7417, www.arlins.com, arlins@arlins.com

DATE	REGISTRATION	SERIAL #	TAC & TOTAL TIME
27 AUG 2015	N153TS	42.118	1582.3

Inspection completed this date. Checked cables, pulleys, lights, brakes, tires, and battery. Checked control rods. Checked ELT per 91-207(d). ELT Battery due Aug 2021. Drained sumps. Cleaned gascolator. Ran gear retraction check. Checked wing, gear and tail bolts. Checked bonding and discharge system (due every 4 yrs. / 1000HR). Replaced standby attitude gyro emergency battery package P/N D60-2560-91-00. Replaced four EECU batteries P/N LC-R127-R2P. Replaced fuel filters elements P/N WK 724/3. Replaced air filters P/N RU-1620. Replaced L/H Aux fuel pump to solenoid valve hose P/N A 24562-05 and fuel cooler to solenoid valve hose P/N A24562-04. Cleaned deice fluid strainer. Replaced nose tire and wheel bearings and races. Replaced left and right tail pipe rubber mounts P/N 140SCE64010. Spot repaired inside of cowlings with fire paint system per instructions. Replaced left elevator static wick. Reinstalled inspection panels and cowl.

[Signature]
Arlin C. Wass A&P 1340061

DATE	REGISTRATION	SERIAL #	TAC & TOTAL TIME
27 AUG 2015	N153TS	42.118	1582.3

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

[Signature]
Arlin C. Wass IA 1340061



AIRCRAFT LOGBOOK ENTRY

01/21/2016 N153TS DIAMOND DA42 S/N 42.118 TACH:1605.5

Serviced landing gear accumulator with nitrogen IAW DA42 AMM chapter 29-10-00.
Performed
gear swing checked good.

CLAY LACY AVIATION
8285 PERIMETER RD. S.
SEATTLE, WA. 98108

[Signature]
Emmett Esmond
AP3155315



ABSOLUTE AERO
MAINTENANCE

22005 Skywest Drive, Hayward, CA 94541 • 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 951 AIRCRAFT: N153TS TACH: 1609.4
MODEL: Diamond DA 42 NG S/N: 42.118

DATE: 03/24/2016

Replaced the following parts with new: L/H rear seat locking pin (P/N: DA4-2522-60-30-1), four exterior "Jet-A" fuel placards (2EA P/N: D4D-1127-20-22_1 & D60-1124-20-22), both wingwalk stepping surfaces (P/N: DA4-1123-10-11), R/H and L/H engine defrost and interior heating SCAT ducts. Re-sealed interior duct fittings. Leak and ops check good. All work completed in accordance with Diamond DA 42 Maintenance Manual. -END

This airframe is approved for return to service, for only the work performed.

Jesse Case A&P 3772878

ENGINEERING RECORD

16

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

SIGNATURE

LICENCE
NUMBER

Both engines operating, avionics master on

Pilot Cert.
3534571



Date: 11/14/16 N153TS S/N: 42.118
Total Time: 1616.5

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.912.4263
Cell: 562.881.5345

1. Performed Annual Inspection using DA42NG AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 08/2021.
3. Inspected emergency battery system IAW DA42NG AMM 24-30-00. Battery expires 08/2017.
4. Replaced ECU backup batteries P/N LC-R127R2P IAW DA42NG AMM 24-30-00. Batteries expire 11/2017.
5. Replaced fuel filters P/N WK724_3 IAW DA42NG AMM 28-20-00.
6. Replaced fuel filters P/N WK724_3 IAW DA42NG AMM 12-10-00.
7. Complied with 100 hour lubrication IAW DA42NG AMM MSB-E4-003/20.
8. MSB42NG-002/14 (Fadec Software) EECUs updated IAW MSB-E4-003/20.
9. Intercoolers repaired by Dynamic Fabrication, Santa Ana, CA.
10. Replaced main battery P/N RG24-15M with serviceable S/N 40614782.
11. ADs current to biweekly revision 2016-23.
12. Performed ground run operational and leak check.

I certify this aircraft has been inspected IAW an Annual Inspection and was determined to be in airworthy condition

Authorized Signature David Seastead AP3492477 IA



Date: 12/2/16 N153TS S/N: 42.118
Total Time: 1630.0 Tach: 1630.0 Hobbs: 0.0

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Installed hobbs meter P/N 81093 IAW 85000 series wiring diagram.

Authorized Signature Stanley Jijawi AP3704706



Date: 12/22/16 N153TS S/N: 42.118
Total Time: 1639.8 Tach: 1639.8 Hobbs: 11.4

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Complied with OSB 42NG-034 (alternator regulators) IAW WI-SB 42NG-034 performed ground run operational test.

Authorized Signature Stanley Jijawi AP3704706



Date: 12/27/16 N153TS S/N: 42.118
Total Time: 1639.8 Tach: 1639.8 Hobbs: 11.4

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Installed Vortex Generator Kit P/N 5095 IAW STC #SA022265E and installation manual MA2241, Rev IR. See 337 form this date.

Authorized Signature Abel Navarrete AP3773318



Date: 12/27/16 N153TS S/N: 42.118
Tach: 1639.8 Hobbs: 11.4

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Installed SVT P/N 010-00330-54 IAW Garmin Field Update Instructions. SD Card S/N BE1235322322G

I certify the above work was performed IAW DA42NG AMM and is in airworthy condition.

Authorized Signature David Seastead AP3492477 IA

AIR TIME AND

DATE	DAILY TOTAL	 GERDES AVIATION SERVICES FAA Approved Repair Station G3RR399J	3 RECORD LINES AS REQUIRED FOR COMPLETE
BROUGHT FORWARD	HR		

IFR CERT. TESTS - The Altimeter / Static and Transponder Systems have been tested and inspected per 14 CFR 91.411 & 91.413. The systems were found to comply with 14 CFR 43, Appendix E & F to an altitude of 25,000 feet.
 N Number 153TS Tach/Hobbs 0017.7 ACTT 1642.7
 Date 02-01-2017 Authorized Signature: [Signature]
 P.O. Box 2872 Fullerton CA 92833 Office (714) 525-7545



Date: 4/26/2017 N153TS S/N: 42.118
Total Time: 1698.7 Tach: 1698.7 Hobbs: 91.6

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Installed new battery P/N: R624-15M S/N: 40860833 IAW DA42 AMM 24-31-00.

Authorized Signature

Abel Navarrete

AP3773318



Date: 5/17/2017 N153TS S/N: 42.118
Total Time: 1719.3 Tach: 1719.3 Hobbs: 116.5

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced LH tire P/N: 06-07340 and tube P/N: 06-00770 IAW DA42 AMM 32-40-00.

Authorized Signature

Abel Navarrete

AP3773318



Date: 5/24/17 N153TS S/N: 42.118
Total Time: 1727.6 Tach: 1727.6 Hobbs: 126.1

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Performed 100Hr inspection using DA42NG AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 08/2021. RCPI: N/N.
3. Inspected emergency battery system IAW DA42NG AMM 24-30-00. Battery expires 08/2017.
4. Replaced fuel filters IAW DA42NG AMM 28-20-00.
5. Complied with 100 hour lubrication IAW DA42NG AMM 12-10-00.
6. Replaced set screw for alternate air P/N: DA1-9071-03-01 IAW DA42NG AMM 71-60-00.
7. ADs current to biweekly revision 2017-10
8. Performed ground run operational and leak check.

I certify this aircraft has been inspected IAW a 100Hr inspection and was determined to be in airworthy condition.

Authorized Signature

Abel Navarrete

AP3773318



Date: 6/19/17 N153TS S/N: 42.1218
Total Time: 1742.1 Tach: 1742.1 Hobbs: 151.6

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced RH tire P/N 06-07340 and tube P/N 06-00770 IAW DA42 NG AMM 32-40-00.
2. Replaced RH brake pads P/N RA66-105 IAW DA42 NG AMM 32-40-00.

Authorized Signature

Stanley Jijawi AP3704706



Date: 7/18/2017 N153TS S/N: 42.118
Total Time: 1776.3 Tach: 1776.3 Hobbs: 197.7

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced LH brake pads P/N: RA66-105 IAW DA42 NG AMM 32-40-00.

Authorized Signature

Abel Navarrete

AP3773318

CARRIED FORWARD

ENGINEERING RECORD

17

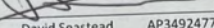


Date: 9/1/17 N153TS S/N: 42.118
Total Time: 1811.9 Hobbs: 255.6

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced emergency battery P/N D60-2560-91-00 IAW DA42NG AMM 24-30-00. Battery expires 09/2019.

I certify the above work was performed IAW DA42NG AMM and is in airworthy condition.

Authorized Signature 
David Seastead AP3492477 IA

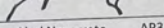


Date: 10/5/17 N153TS S/N: 42.118
Total Time: 1820.4 Tach: 1820.4 Hobbs: 269.9

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Performed 100Hr inspection using DA42NG AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 08/2021. RCPI: N/N.
3. Inspected emergency battery system IAW DA42NG AMM 24-30-00. Battery expires 09/2019.
4. Replaced fuel filters IAW DA42NG AMM 28-20-00.
5. Complied with 100 hour lubrication IAW DA42NG AMM 12-10-00.
6. ADs current to biweekly revision 2017-20.
7. Performed ground run operational and leak check.

I certify this aircraft has been inspected IAW a 100Hr inspection and was determined to be in airworthy condition.

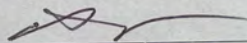
Authorized Signature 
Abel Navarrete AP3773318



Date: 11/7/2017 N153TS S/N: 42.118
Total Time: 1861.1 Tach: 1861.1 Hobbs: 331.5

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced main battery P/N: 7243-16 S/N: G02973340 IAW DA42NG 24-31-00.

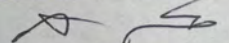
Authorized Signature 
Abel Navarrete AP3773318



Date: 11/13/2017 N153TS S/N: 42.118
Total Time: 1866.2 Tach: 1866.2 Hobbs: 339.7

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced LH tire P/N: 06-07340 and tube P/N: 06-00770 IAW DA42NG AMM 32-40-00.

Authorized Signature 
Abel Navarrete AP3773318

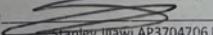


Date: 12/1/17 N153TS S/N: 42.118
Total Time: 1877.2 Tach: 1877.2 Hobbs: 356.0

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.912.4263
Cell: 562.881.5345

1. Performed Annual Inspection using DA42NG AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 08/2021.
3. Inspected emergency battery system IAW DA42NG AMM 24-30-00. Battery expires 09/2019.
4. Replaced ECU backup batteries P/N LC-R127R2P IAW DA42NG AMM 24-30-00. Batteries expire 12/2018.
5. Replaced fuel filters P/N WK724_3 IAW DA42NG AMM 28-20-00.
6. AD 2017-18-10 (flap bell crank) complied with as a terminating action by installing new P/N D60-2757-11-00-01 and bushings P/N BU2-10-06-0065-C IAW MSB 42-NG-066.
7. Complied with 100 hour lubrication IAW DA42NG AMM 12-10-00.
8. ADs current to biweekly revision 2017-24.
9. Performed ground run operational and leak check.

I certify this aircraft has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

Authorized Signature 
Stanley Jijawi AP3704706 IA

AIR TIME AND



Date: 1/24/18 N153TS S/N: 42.118
Total Time: 1925.0 Tach: 1925.0 Hobbs: 432.0

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.912.4263
Cell: 562.881.5345

1. Replaced all brake pads P/N: RA066-10500 IAW DA42NG AMM.

Authorized Signature

Abel Navarrete AP3773318



Date: 2/7/2018 N153TS S/N: 42.118
Total Time: 1947.1 Tach: 1947.1 Hobbs: 464.9

MX Aero Global LLC
2901A E. Spring St. Long Beach, CA 90806
Main: 562.366.4806
Cell: 562.881.5345

1. Replaced RH outer fuel probe P/N: D60-2817-14-00_1-ASY and RH inner fuel probe P/N: D60-2817-13-00_1 IAW DA42NG AMM 57-10-00.

Authorized Signature

Abel Navarrete AP3773318

2/21/19 TT: 1958.0
Hobbs 489.7
Replaced main battery, RG24-ISM
S/N 41067812
— END
AP3492477H

LOG ID# 839 22-February-2020
N153TS S/N 42.118 DIAMOND/KATANA DA42

REMOVED GARMIN GTX33 TRANSPONDER. INSTALLED
A GARMIN GTX-345R SN: 3EH422212 AS PER STC SA01714WI.

Ref FAA Form 337 dated 02/22/2020 for details.

"The installed ADS-B OUT system was shown to meet
the equipment performance requirements of 14 CFR section 91.227".

Aircraft Weight & Balance was revised.

AP3548069 GARY JENKINS

Date

FAR 91.413

THE ATC TRANSPONDERS AND INSPECTIONS AS REQUIRED BY FAR 91.413 WERE PERFORMED THIS DATE AND FOUND TO COMPLY WITH PART 43 APPENDIX F, AND APPENDIX E PARAGRAPH C.

TRANSPONDER #1	MAKE: Garmin	MODEL: GTX345R	S/N: 3EH422212
TRANSPONDER #2	MAKE:	MODEL:	S/N:

DATE: 2-24-2020	WO: 9310	INSPECTOR: Richard Ellington
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N153TS CAROLINA AVIONICS GROUP, LLC
FAA APPROVED REPAIR STATION # QCCR-389K

FAR 91.411

ALTIMETERS, ALTITUDE REPORTING EQUIPMENT AND STATIC PRESSURE SYSTEM HAVE BEEN CHECKED AND MEET ALL SPECIFICATIONS OF APPENDIX E OF PART 43

ALTIMETER CERTIFIED TO

LEFT	FEET	RIGHT	FEET
------	------	-------	------

20,000	20,000
--------	--------

S/N: 47805973	S/N: 451353
---------------	-------------

DATE: 2-24-2020	W/O: 9310	INSPECTOR: Richard Ellington
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N153TS CAROLINA AVIONICS GROUP, LLC
FAA APPROVED REPAIR STATION # QCCR-389K

CARRIED FORWARD



3330 AIRPORT LOOP
SALISBURY NC 28147
OFFICE: 704-431-6862
INFO@SOUTHTECAVIATION.COM

DATE: MARCH 10, 2020 | DIAMOND DA42NG | S/N: 42.118 | REG: N153TS
TACH: 1969.4 HRS. TTAF: 1969.4 HRS.

ANNUAL/200 HOUR INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42NG AMM. DIAMOND AIRCRAFT MANDATORY SERVICE BULLETIN **MSB 42-137/1** INSPECTION OF T-YOKE AXLE NUT FOR LOOSENESS, DATED DECEMBER 11, 2019 COMPLIED WITH IN ACCORDANCE WITH DIAMOND AIRCRAFT WORK INSTRUCTION WI-MSB 42-137, DATED OCTOBER 21, 2019. NO FAULTS NOTED. NEXT DUE IN INTERVALS NOT TO EXCEED 200 HOURS (2169.4 TACH) OR 12 MONTHS (**MAR 2021**).

ELT TESTED IN ACCORDANCE WITH CFR 91.207(D). ELT BATTERY EXP: **AUG 2021**.
REPLACED EMERGENCY BACKUP BATTERY, P/N:(D60-2560-91-00). EXP: **MAR 2022**.

INSTALLED NEW WITNESS WIRE ON EMERGENCY SWITCH.

REPLACED FADEC BACKUP BATTERIES, P/N:(LC-R127R2P). EXP: **MAR 2021**.

REMOVED TOP COM ANTENNA AND MOUNTED CI-2580-200 COMANT VHF GPS ANTENNA, S/N:(623460).

REMOVED AND REPLACED STRIPES AND N-NUMBERS.

REPLACED CANOPY AND FUEL PLACARDS WITH NEW.

SERVICED MLG AND NLG STRUTS WITH NITROGEN.

REPLACED NLG TIRE WITH GOODYEAR FLT SPEC 500-5 10 PLY.

REPLACED RIGHT MLG TIRE WITH G/Y FLIGHT SPECIAL II 15-6.00X6 6PLY AND TUBE, P/N:(GL-1520B).

REPLACED STALL HORN SPEAKER, P/N:(SC628NDR).

REPLACED AVIONICS SWITCH WITH NEW, P/N:(KIACAAAAA).

REPLACED FRONT AND REAR CANOPY LOCKS, P/N:(DA4-5210-20-53).

REPLACED FIRE PAINT IN LEFT AND RIGHT COWLINGS.

REMOVED FIRE PAINT ON LEFT AND RIGHT NACELLES BEHIND TURBOS AND REPLACED WITH NEW FIRE SHIELDS, LEFT P/N:(D64-5711-24-00) AND RIGHT P/N:(D64-5711-24-00).

REPLACED LEFT AND RIGHT PROPELLER ICE SHIELDS.

REMOVED ALL QUICK-DRAINS, CLEANED, REPLACED O-RINGS, P/N:(MS29513-006) AND P/N:(MS29513-011); REINSTALLED.

LUBRICATED CABIN/DEFROST CABLES.

REPLACED MISSING RIGHT MLG WHEEL CAP SCREW, P/N:(102-00600).

COMPLIED WITH ATA CHAPTER 51 BONDING INSPECTION, **NEXT DUE IN 1000 HOURS TIS (2969.4 TTAF) OR FOUR YEARS (MAR 2024), WHICHEVER OCCURS FIRST.**

REPLACED LEFT INBOARD FUEL PROBE, P/N:(D60-2817-13-000_1) AND LEFT OUTBOUND FUEL PROBE, P/N:(D60-2817-14-00_1) USING NEW O-RINGS, P/N:(DIN-3771-23.4X3.53). OPS CHECK GOOD.

REPLACED TWO LEFT ENGINE ELECTRIC FUEL PUMPS IN LEFT NACELLE, P/N:(0_580_054_001) USING CUSH WASHERS, P/N:(DIN7603-A14X20X1.5AL), AND TWO FUEL PRE-FILTERS, P/N:(D64-2810-00-03_1). OPS CHECK GOOD.

REPAINTED BOTH GLARE SHIELDS.

REPAINTED LEFT AND RIGHT PROPELLER SPINNERS.

REPLACED LEFT AND RIGHT FUEL FILTERS, P/N:(WK724_3).

RESEALED REAR DOME LIGHT REFERENCING MSB 42NG-007.

REPLACED LEFT AND RIGHT ANTI-SKID PADS, P/N:(D60-1127-10-53) AND P/N:(D60-1127-10-54).

GEA 71 PUTTING OUT INTERMITTENT INFORMATION. CLEANED TERMINALS AND RESEATED UNIT.

LEFT MLG LEG BONDING WIRE BROKEN, CRIMPED ON NEW TERMINAL END AND REINSTALLED.

LUBRICATED ALL LANDING GEAR SYSTEM.

REPLACED LEFT AND RIGHT AIR FILTERS, P/N:(RU1620).

REPLACED LEFT AND RIGHT BRAKE ROTORS, P/N:(RA164-01501)

REPLACED ALL LEFT AND RIGHT BRAKE LININGS, P/N:(066-10500).

REPLACED LEFT AND RIGHT BRAKE CALIPER PUCK O-RINGS, P/N:(MS28775-222).

BLED LEFT AND RIGHT BRAKE SYSTEMS.

REMOVED PROPELLERS FOR PAINTING AND REINSTALLED.

REPLACED LEFT AND RIGHT WING TIP OUTER STATIC WICKS, P/N:(16630).

REPLACED RIGHT MLG JOINT WITH OVERSIZE JOINT 2: 36MM, P/N:(D64-3217-23-02).

PERFORMED GEAR SWING TO CHECK TIRE CLEARANCE IN WHEEL WELL.

REPLACED RUDDER UPPER ATTACH BEARING, P/N:(SCP8).

REPLACED LEFT FUEL FILTER CRUSH WASHER, P/N:(DIN7603-A8X11.5-AL).

INSTALLED USB POWER SUPPLY, P/N:(200-101A) S/N:(4463) REFERENCING GUARDIAN AVIONIC INSTALL DOCUMENT NO. 250-M AND DRAWING USB 250 REV. A. NO CHANGE TO WEIGHT AND BALANCE.

REPLACED ELEVATOR TRIM BELLOWS, P/N:(K050201001).

REPLACED LEFT AND RIGHT WING T-SEAL, P/N:(DAI-9057-00-01).

INSPECTED AND REPACKED WHEEL BEARINGS.

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

CHRISTIAN HEDRICK

A&P 3740465 IA



3330 AIRPORT LOOP
SALISBURY NC 28147
OFFICE: 704-431-6862
INFO@SOUTHTECAVIATION.COM

DATE: JULY 9, 2020 | DIAMOND DA42NG | S/N: 42.118 | REG: N153TS
TACH: 1970.0 HRS. TTAF: 1970.0 HRS.

REPLACED AHRS WITH GARMIN GRS77, P/N:(011-00868-10) S/N:(42031929).
REPLACED MAGNETOMETER WITH GARMIN GMU44, P/N:(011-00870-000) S/N:(47510495).
REPLACED PFD WITH GARMIN GDU1040 HTR, P/N:(011-00972-03) S/N:(88904254).
RECONFIGURED AND LOADED SOFTWARE.
NO CHANGED TO WEIGHT AND BALANCE.
OPERATIONAL CHECKS OK.

ALL WORK PERFORMED IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42NG AMM.

CHRISTIAN HEDRICK

A&P 3740465 IA

CARRIED FORWARD

ENGINEERING RECORD

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Airframe - page 1 of 1

WO: WO_645



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.118

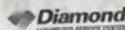
December 3, 2020

N153TS
TACH: 1984.7

1. Completed a 12yr structural inspection as required. Removed wings, Inspected fuel tanks and re-installed as required. Installed (2) D60-9030-00-01 - Sealing ring 3/16, Installed (4) LN9037-M6X26 - Bolt, Hex, Socket Button Head, Installed (4) LN9037-M6X28 - Bolt, Installed (4) NAS1149F0763P - Washer, Installed (48) DIN985-M6-A2 - Nut Hexagon, Installed (6) 65151 - Vent hose, Installed (4) D41-2817-10-70 - Fuel tank hoses, Installed (16) 15400032 - 1/4" Hose Crimp Clamp, Installed (4) OR80X3 - O-ring, Installed (2) D60-9030-00-01 - Sealing ring 3/16, Installed (2) D60-9030-00-10 - Sealing ring 5/16, Installed (24) DAI-9057-00-01 - Fuse wing gap gasket.
2. Removed and replaced LH strobe bulb with new as required. Installed (1) 02-0250276-00 - Whelen A610 Flashtube.
3. Re-bonded RH rear window as required.
4. Removed and replaced alternate air control cable with new. Cleaned and lubricated alternate air valves on both engines as required. Installed (1) D607167-11-00 - Cable LH alternate air.
5. Removed and replaced nose wheel bearings and races with new. Installed (2) 08213-20629 - Bearing cup, Installed (2) 08125-20629 - Bearing.
6. Removed and replaced nose landing gear centering mount casting with new. Installed (1) D60-3223-10-55 - Centering bracket, Installed (1) D60-3223-64-00 - Casting, Installed (1) LFR50-8,NPP.VA - Guide wheel, Installed (1) BU1-08-06-0140-C - Bushing, Installed (1) LN9037-M6X34 - Bolt, Hex,.
7. Cleaned corrosion from LH main gear spring as required.
8. Cleaned corrosion from RH main gear spring as required.
9. Removed and replaced LH main gear tire with owner supplied unit as required.
10. Removed and replaced corroded hardware on LH main gear with new as required. Installed (2) DIN472-30 - Retaining ring, Installed (4) DIN471-10-ZP - Retaining ring.
11. Removed and replaced corroded hardware on RH main gear with new as required. Installed (6) DIN471-20-ZP - Retaining ring.
12. Cleaned connections on Variable stop motor for elevator as required. Functional check satisfactory.
13. Inspected aircraft logbooks and found engine replacement on RH engine in logs as required.
14. Removed and replaced corroded stabilator hardware with new as required. Installed (8) DIN931-M10X45-YZP - Bolt, Installed (8) DIN985-M10-A2 - Nut self locking.
15. Removed and replaced corroded vertical stabilizer bolts with new as required. Installed (1) Z-144DI - Spring, Installed (1) Z-124AI - Spring, Installed (1) LN9037-M6X84 - Bolt, Installed (1) LN9037-M6X58 - Bolt, Installed (2) DA4-2738-00-70 - Bolt drilled shank, Installed (2) DIN935-M5-A2 - Nut castellated.
16. Removed and replaced corroded trim tab bolt with new as required. Installed (4) DIN985-m5-a2 - Nut 8mm.
17. Cleaned all fuel tanks as required to remove microbial growth.
18. Removed corrosion on vertical stabilizer control rod as required. Treated, primed and painted to match aircraft as required.
19. Removed horizontal stabilizer static wick, cleaned corrosion and re-installed.
20. Adjusted rudder trim friction and lubricated as required.
21. Removed and replaced broken bonding straps on RH flap push rod with new as required. Installed (4) stock - bonding strap material.
22. Serviced hydraulic accumulator to proper pressure as required.
23. Re-bonded center fuselage to wing fairing as required.
24. Removed and replaced RH main wheel bearings and races with new. Installed (2) 13836 - Race, Installed (2) 13889 - Wheel bearing.
25. Removed and replace LH main wheel bearings and races with new. Installed (2) 13836 - Race, Installed (2) 13889 - Wheel bearing.
26. Removed and replaced LH aileron bonding strap with new.
27. Removed and replaced LH rudder pedal mounting bolt with new. Installed (2) LN9037-05020 - Bolt, Hex, Socket Button Head.
28. Removed and replaced fuel filler cap o-rings with new. Installed (2) BS534 - Fuel cap seal, Installed (2) BS338 - Fuel Cap, Installed (1) DIN965A-M5X30-A2 - Screw countersunk.
29. Installed missing LH auxiliary inline filter as required. Installed (1) QA03152 - Inline fuel filter.
30. Removed and replaced fuel filter drain valves with new. Installed (4) DA4-9028-17-1 - Fuel drain valve.
31. Removed RH and LH wing ground plates on top and bottom inboard edges, bonded in new plates, repaired composite laterers and ground plane IAW Diamond maintenance manual section 51. Body worked, primed and painted as required.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_645.

James T. Markey IA AP3166872IA



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.118

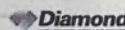
December 3, 2020

N153TS
TACH: 1984.7

1. Performed Annual inspection I/A/W AC43-13 Appendix D.using Diamond DA42 Aircraft Maintenance Manual as a reference.
2. All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers and breakers. No defects noted.
3. Aircraft interior and exterior cleaned. Removed engine cowlings and all access panels for inspection.
4. Aircraft placed on jacks. All wheel assemblies removed. Removed, cleaned, inspected, repacked and reinstalled all wheel bearings. All tires inspected for wear and proper air pressures verified. Wheel assemblies reinstalled.
5. Main battery removed, tested, charged and reinstalled.
6. All gear assemblies inspected. Verified proper nitrogen pressures in all oleo struts. Inspected all gear links, gear doors, gear wells, and all other gear related pieces. No defects noted.
7. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks.
8. Rudder removed for tail inspection. Rudder, rudder hinges, rudder trim tab, rudder gap seal, elevator, elevator push rod, elevator hinges, elevator trim tab, elevator mounting brackets, and elevator mass balance all inspected. No defects noted. Rudder assembly lubricated and reinstalled.
9. Inspected Pitot-static probe and stall warning sensor. No defects noted.
10. Fuel tanks and fuel interconnecting hoses inspected. All bonding wires inspected. Checked all fuel vents for blockages and proper operation, no blockages found and vents operate normally.
11. Inspected inner and outer flap assemblies, ailerons assemblies, hinges and pushrods. No defects noted.
12. Inspected inside of engine nacelles. Inspected all wiring, connectors, fuel lines, TKS lines, TKS junction blocks, EECU's and wing main attach bolts. No defects noted.
13. Inspected canopy and rear passenger door. Inspected windows, door hinges, and tested door open warning lights. No defects noted.
14. Reinstalled all interior panels and seat assemblies. Verified proper operation of seats belts after interior re-installation.
15. Hydraulic system components inspected and verified hydraulic fluid level.
16. Inspected all systems in rear compartment.
17. All flight control cables, pulleys, rudder pedals, control rods and control sticks inspected and lubricated.
18. Nose baggage carpets and rear wall removed. Inspected TKS tank & lines, battery compartment & battery, and all lines & electrical connectors/ wiring. Nose baggage door latches inspected and force tested. No defects noted. Reinstalled all carpets and panels.
19. ELT inspected I/A/W FAR 91.207(d).
20. EECU backup batteries replaced. Due for replacement 12/2021.
21. Emergency backup battery and switch inspected. Backup battery replacement due: 12/2021.
22. All access panels reinstalled and reinstalled engine cowlings.
23. All systems checked for proper operation, no defects noted.
24. All other routine service items performed.
25. All AD's complied with bi-weekly thru this date.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_723.

James T. Markey IA AP3166872IA



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.118

May 17, 2021

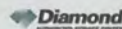
N153TS
TACH: 2060.2

Removed broken key body from ignition, Ran aircraft with spare key and functional checked all systems with no issue noted.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_804.

James T. Markey IA AP3166872IA

CARRIED FORWARD



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.118

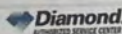
July 06, 2021

N153TS
TACH: 2079.6

1. Performed Annual inspection I/A/W AC43-13 Appendix D.using Diamond DA42 Aircraft Maintenance Manual as a reference.
2. All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers and breakers. No defects noted.
3. Aircraft interior and exterior cleaned. Removed engine cowlings and all access panels for inspection.
4. Aircraft placed on jacks. All wheel assemblies removed. Removed, cleaned, inspected, repacked and reinstalled all wheel bearings. All tires inspected for wear and proper air pressures verified. Wheel assemblies reinstalled.
5. Main battery removed, tested, charged and reinstalled.
6. All gear assemblies inspected. Verified proper nitrogen pressures in all oleo struts. Inspected all gear links, gear doors, gear wells, and all other gear related pieces. No defects noted.
7. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks.
8. Rudder removed for tail inspection. Rudder, rudder hinges, rudder trim tab, rudder gap seal, elevator, elevator push rod, elevator hinges, elevator trim tab, elevator mounting brackets, and elevator mass balance all inspected. No defects noted. Rudder assembly lubricated and reinstalled.
9. Inspected Pitot-static probe and stall warning sensor. No defects noted.
10. Fuel tanks and fuel interconnecting hoses inspected. All bonding wires inspected. Checked all fuel vents for blockages and proper operation, no blockages found and vents operate normally.
11. Inspected inner and outer flap assemblies, ailerons assemblies, hinges and pushrods. No defects noted.
12. Inspected inside of engine nacelles. Inspected all wiring, connectors, fuel lines, TKS lines, TKS junction blocks, EECU's and wing main attach bolts. No defects noted.
13. Inspected canopy and rear passenger door. Inspected windows, door hinges, and tested door open warning lights. No defects noted.
14. Reinstalled all interior panels and seat assemblies. Verified proper operation of seats belts after interior re-installation.
15. Hydraulic system components inspected and verified hydraulic fluid level.
16. Inspected all systems in rear compartment.
17. All flight control cables, pulleys, rudder pedals, control rods and control sticks inspected and lubricated.
18. Nose baggage carpets and rear wall removed. Inspected TKS tank & lines, battery compartment & battery, and all lines & electrical connectors/ wiring. Nose baggage door latches inspected and force tested. No defects noted. Reinstalled all carpets and panels.
19. ~~ELT inspected I/A/W FAR 91.207(d). Expires August 2021.~~
20. EECU backup batteries replaced. Due for replacement 12/2021.
21. Emergency backup battery and switch inspected. Backup battery replacement due: 12/2021.
22. All access panels reinstalled and reinstalled engine cowlings.
23. All systems checked for proper operation, no defects noted.
24. All other routine service items performed.
25. All AD's complied with bi-weekly thru this date.
26. Replaced missing V.G. and repaired two other defective units. Installed (1) D64-5710-06-01 - Vortex generator.
27. Removed and replaced INOP unit with new. Installed (1) A50828 - Position Light (tail).
28. Removed and replaced broken terminal.
29. Removed and replaced L/H tire with new serviceable tire. Installed (1) 15X6.00-6 - TUBE.

With respect to the work performed, this airframe is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_854.

James T. Markey IA AP3166872IA



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N153TS

Hobbs: 709.0

Tach: 2107.4

January 13, 2022

1. Installed new alt air cable as required. Adjusted as required. Ops checked good. Installed (1 ft) P/N DA60-7167-11-00 - Bowden cable.
2. Adjust heat controls as required. Lubricated controls. Ops checked good.

With respect to the work performed, I certify that this airframe has been determined airworthy and is approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_1056.

James T. Markey IA AP3166872IA

413



CARRIED FORWARD

ENGINEERING RECORD

21

N153TS
Make Diamond
Model DA-42NG
Serial Number 42.118
Log Entry Page 1 of 1

Heavy Metal Air LLC
Westchester County Airport
White Plains, NY 10604
914-461-2336

Date: 01/16/2023
Tach: 2151.4
Airframe Total Time: 2151.4

Performed a 100 HR Inspection I/A/W 14 CFR Part 43.13 Appendix D. All standard service items complied with in reference of DA42 AMM and Austro Engine MM. Performed FAR 91.207 (d) ELT inspection. Installed new ELT battery P/N: 452-6499, S/N: 395535-052. ELT battery expiration date JUL/2029. Aircraft interior and exterior cleaned. All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers, and breakers, no defects noted. Aircraft placed on jacks. All wheel assemblies removed. Removed, cleaned, inspected, repacked, and reinstalled all wheel bearings. All gear assemblies inspected. Verified proper nitrogen pressures in all oleo struts. Inspected all gear links, gear wells, gear doors, and all other gear related pieces. No defects noted. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks. Serviced nose strut as needed. Installed 4 new L/H brake lining P/N: 066-10500. Installed new emergency battery P/N: DA4-2560-91-00, S/N: RC2207681. Installed 4 new EECU batteries P/N: NP7-12, S/N: RC2206698. Installed new flap up position light P/N: 461K022801WS S/N: RC2202071. C/W AD 2021-22-03 nose gear inspection, no defects noted. C/W S/B SB42-124 Cabin heat, defrost and alternate air cables. Installed new Cable kit for cabin heat, defrost, alternate air P/N: SB42-124KIT. Operational test of alternate air and cabin heat, Defrost heat OK, no defects noted. All AD's checked and listed thru BW 2023-02. Run-up and operational checks of all systems - OK.
---END---

I certify that this aircraft has been inspected in accordance with a 100 HR Inspection and was determined to be in airworthy condition. Time 2151.4 Date 01/16/2023

Signed  A&P # 4039748.

Andy Batista

I certify that this Airframe, Engine, Propeller has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition. Time 2151.4 Date 01/16/2023

Signed  A&P # 26779101A.

Alexander Duran

N153TS 04/29/23. Tach ---- Hobb's 0806 3 Type Insp Thru Service
 - Engine Power % unattained included with ECU Fail notification Downloaded
 Error log from ECU flagged Prop Governor P & R with Overhauled Prop Gov
 Accomplished Ground Run Up & Leak checks All Run Up & Ops Check Good
 I certify that this Propeller's been serviced IAW Diamond & M T Propeller &
 Determined to be in Airworthy Condition. END
 A & P Print Thomas Tassopulos A&P 2898005

N153TS 12/23/23. Tach 2,188.9. Type Insp: Thru Service
 Left Main Tire found flat, Jacked, Removed & replaced
 tube Assy Reinstalled Left Main Wheel Assy and removed
 Jack. I certify that this aircraft has been serviced IAW Diamond
 Tech Pubs Determined to be in Airworthy Condition. END
 A&P Print Thomas Tassopulos A&P 2898005
 A & P Sign C233

	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD				



Airframe Log Entry

Reg#: N153TS
 S/N: 42 118
 Hrs: 849.9

Make: Diamond
 Date: 04/08/2024
 Lnds: NA

Model: DA42-NG

Performed 2 yr pitot/static ops checks. Tested and inspected the pilot's altimeter and Standby automatic pressure altitude reporting systems IAW Title 14 CFR part 91.411 and ATC Transponder tests and inspections IAW title 14 CFR part 91.413(a) and found to comply with the Title 14 CFR part 43, appendices E and F. All tests pass at this time. A/C tested to 20,000ft.

The above described repair or maintenance is approved for return to service. A detailed record is on file under Work Order # KDKPA

Signed: Pedro Roque Q.I. 2736

Duncan Aviation CRS#JGVR194F

Phone: 203-266-2149



DGM Aircraft Maintenance
 9100 Republic Airport Rte 109 SB5
 Farmingdale NY 11735
 631-270-4144

Make: Diamond (Austria)

Model: DA 42 NG

Tail: N153TS

S/N: 42.118

Hours: Tach: 2188.9 Hobbs: 853.6 A/CTT: 2188.9

Airframe Logbook

Completed 100 Hour inspection in reference to Diamond service manual and FAR 43 Apdx D. Lubed landing gear and wheel bearings. Serviced brake system with 5606. Performed normal and emergency gear extension checks with no defects noted. ELT inspected I/A/W FAR 91.207(d) and checks good. Battery due date 007/2029. Replaced right brake caliper piston O-ring with new P/N: MS28775-222. Replaced left tire inner tube with new P/N: 302-246-401. Replaced left main fuel tank drain valve with new P/N: CAV180. Replaced Elevator trim hardware with new P/N: MS24665-12(X2), LN9348-M4 (X2), LN9037-M4X18. Replaced right fuel filter drain calve with new P/N:CAV180. Insp/lubed flight controls.

- C/W AD 22-06-08 by inspection OK. Next due Tach: 2388.9
 - C/W AD 24-06-13 by replacing T-Bolt P/N: D60-5320-00-32, Din125A-M6, Dim9021-M6-A2 washer, Din985-M2-A2 Nut, An416-1 Pin.

AD's checked thru 2024-15. Run up, leak checks and system checks satis. Approved for return to service.

Signed: Emmanuel Cartana

ENGINE SERVICE AND

N153TS
Make Austro
Model E4P-B
Serial Number E4-B-00135
Log Entry Page 1 of 1
Left Engine

Heavy Metal Air LLC
Westchester County Airport
White Plains, NY 10604
914-461-2336

Date 01/16/2023
Tach 2151.4
Airframe Total Time 2151.4
Engine Total Time 1136.4
Time Since New 1136.4

Performed a 100 HR Inspection I/A/W 14 CFR Part 43.13 Appendix D using Diamond DA42 AMM and Austro Engine MM as references. All standard service items complied with. Air intake and turbo charging system inspected. V-Band clamp on turbo charge inspected for defects, none found. Installed new Engine air filter P/N: RU1620. Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system, waste gate controller, exhaust system, and engine breather line, no defects noted. Drained engine oil and filled with 7 Liters Aeroshell diesel ultra 5W-30. Removed and cut opened oil filter for inspection - OK - replaced with new P/N: E4A-52-100-802 filter. Drained gearbox oil and replaced with SPIRAX-S6-GXME 75W-80. Gear box oil filters removed and inspected for particles, none found. Reinstalled filters and verified proper gear box oil level. Removed and replaced fuel filter with new filter P/N: WK724/3. Inspected engine mounts for cracks, deterioration, or loose hardware. Serviced coolant reservoir with peak European vehicles 50/50 antifreeze coolant. Pressure tested coolant system; no leaks found. C/W 900HR injector replacement Installed 4 new Injector P/N: E4A-35-100-000, S/N: RC2105426. All AD's checked and listed thru BW 2023-02. Run-up and operational checks of all systems - OK.

---END---

I certify that this engine has been inspected in accordance with a 100 HR Inspection and was determined to be in airworthy condition. Time 2151.4 Date 01/16/2023

Signed

Andy Batista

A&P# 4039748

Andy Batista



DGM Aircraft Maintenance
9100 Republic Airport Rte 109 SB5
Farmingdale NY 11735
631-270-4144

Make: Diamond (Austria)
Model: DA 42 NG
Tail: N153TS
S/N: 42.118

Hours: Tach: 2188.9 A/CTT: 2188.9 Left EngTT: 1136.9 EngSMOH: 218.9

Left engine logbook

100 Hr. inspection accomplished in reference to Diamond and Austro service manuals. Drained oil. Removed oil filter and inspected oil filter for contaminants, none found. Replaced oil filter with new E4A-52-100-802. Serviced with 7.5 Liters of 5W30LT. Replaced gear box with serviceable P/N: E4A-70-000-000 Rev. ADI S/N: 3811. Gear box total time 1072.6. Serviced with Shell Spirax S6 GXME 75W-80. Installed kit E4A-52-000. Replaced vibrator dampener with new P/N: 90589. Replaced intake hose with new P/N: D64-8126-00-04_3. Replaced 4 exhaust gasket with new P/N: E4A-04000-001. Replaced waste gate gasket E4A-04-000-003. Replaced turbo gasket P/N: E4A-04-000-002 And 4 nuts P/N: DIN934M101.5. Removed Governor and Accumulator send out to MT-Propeller USA, Inc, Reinstalled governor and accumulator after overhaul REF. Work order number 24-377MT, 24-376MT. Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system. Cooling system inspected. Replaced fuel filter with new P/N: WK724/3. Inspected engine mount, no fault found. Lubed controls. Run up OK and leak checks good. Approved for return to service.

Signed:

Gabriel Acevedo Jr

Name: Gabriel Acevedo Jr

Cert: AP2827501

Date: 08/01/2024

PREVIOUS SUMMARY

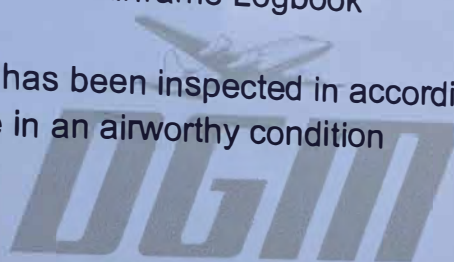
TOTAL
SINCE MFG.

Book

ENGINEERING RECORD

Date: 08/01/2024 **Hours:** Tach: 2188.9 Hobbs: 853.6 A/CTT: 2188.9
Tail#: N153TS
Make: Diamond (Austria) **Model:** DA 42 NG **S/N:** 42.118
Airframe Logbook

I certify that this aircraft has been inspected in according with an annual inspection and was determined to be in an airworthy condition



DGM AIRCRAFT
MAINTENANCE

NEW YORK

Name: William Mundy

Co: DGM Aircraft Maintenance

Cert: AP 2750364 IA

Sign: W. E. Mundy

N153TS 11/08/24 L Tach 2198.4 Hobbs 870.2
Jacked Aircraft Removed & Replaced Right Main
New Goodyear 15x6.00 6 Ply tire, Serviced to Re
and returned aircraft to Airworthy



AIRCRAFT SQUAWK SHEET

Please complete all sections where applicable.

TAKE FLIGHT AVIATION

Date/Time: _____

Aircraft N- 153 IS

Tach: 2150.5

Hobbs: 778.1

Contact Information:

Pilot Name: _____ Phone(Day): _____

E-mail Address: _____ Phone(Evening): _____

Description of squawk:

(If squawk is a safety issue or if you ground an aircraft, make sure you verbally notify the maintenance staff)

Logbook Entry Date: 6-1-2022

(To be filled in by maintenance staff)

Action Taken: REMOVED AND REPLACED STEERING CENTERING UNIT ATTACH BRACKET PER DA42 M.M 32-50-00 OPS CHECK OF STEERING GOOD. AIRCRAFT OK FOR SERVICE

[Signature]
3619968
I.A

Records Officer Signature: _____ Date: _____

ENGINEERING RECORD

21

N153TS
Make Diamond
Model DA-42NG
Serial Number 42-118
Log Entry Page 1 of 1

Heavy Metal Air LLC
Westchester County Airport
White Plains, NY 10604
914-461-2336

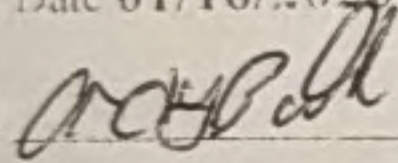
Date: 01/16/2023
Tach: 2151.4
Airframe Total Time: 2151.4

Performed a 100 HR Inspection I/A/W 14 CFR Part 43.13 Appendix D. All standard service items complied with in reference of DA42 AMM and Austro Engine MM. Performed FAR 91.207 (d) ELT inspection. Installed new ELT battery P/N: 452-6499, S/N: 395535-052. ELT battery expiration date JUL/2029. Aircraft interior and exterior cleaned. All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers, and breakers, no defects noted. Aircraft placed on jacks. All wheel assemblies removed. Removed, cleaned, inspected, repacked, and reinstalled all wheel bearings. All gear assemblies inspected. Verified proper nitrogen pressures in all oleo struts. Inspected all gear links, gear wells, gear doors, and all other gear related pieces. No defects noted. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks. Serviced nose strut as needed. Installed 4 new L/H brake lining P/N: 066-10500. Installed new emergency battery P/N: DA4-2560-91-00, S/N: RC2207681. Installed 4 new EECU batteries P/N: NP7-12, S/N: RC2206698. Installed new flap up position light P/N: 461K022801WS S/N: RC2202071. C/W AD 2021-22-03 nose gear inspection, no defects noted. C/W S/B SB42-124 Cabin heat, defrost and alternate air cables. Installed new Cable kit for cabin heat, defrost, alternate air P/N: SB42-124KIT. Operational test of alternate air and cabin heat, Defrost heat OK, no defects noted. All AD's checked and listed thru BW 2023-02. Run-up and operational checks of all systems - OK.

---END---

I certify that this aircraft has been inspected in accordance with a 100 HR Inspection and was determined to be in airworthy condition. Time 2151.4 Date 01/16/2023

Signed

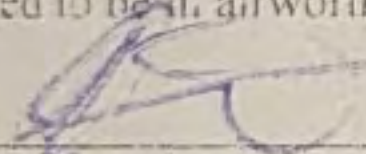


A&P # 4039748

Andy Batista

I certify that this Airframe, Engine, Propeller has been inspected in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition. Time 2151.4 Date 01/16/2023

Signed



A&P # 26779101A

Alexander Duran

ISLIP AVIONICS, INC.

CRS# FJ1R141K

LI MAC ARTHUR AIRPORT

RONKONKOMA, NY

631-588-3543

AIRCRAFT MAINTENANCE RECORD

DATE: 24-MAY-2023

A/C REG# N153TS

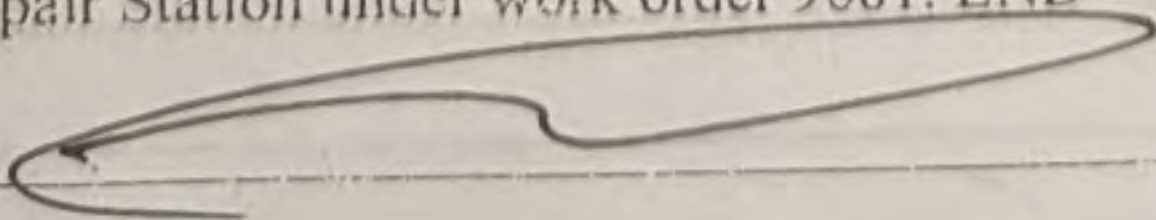
A/C S/N: 42-118

Replaced defective VHF / GPS WAAS Antenna CI 2580-200 referencing Comant installation manual II A258005 Rev E. Post-installation ground operational test satisfactory.

Addressed autopilot issue - autopilot would not pass pre-flight test. Determined issue to be autopilot software - configuration files missing. Loaded files and configured autopilot. Pre-flight test satisfactory.

All work performed using guidance from AC 43.13-1B (change 1) and AC 43.13-2B as applicable.

Details are on file with this Repair Station under work order 9661. END

Authorized Signature: 

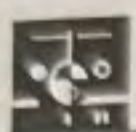
N153TS 04/29/23, Tach ---, Hobbs 0806.3 Type Insp. Thru Service
- Engine Power % unattained included with ECU Fail notification. Downloaded
Error log from ECU flagged Prop Governor R & R with Overhauled Prop Gov
Accomplished Ground Run Up & Leak checks All Run Up & Ops Check Good
Certify that This Propeller's been serviced IAW Diamond & M.T. Propeller &
Determined to be in Airworthy Condition. END
A & P Print: Thomas Tassopoulos A&P 2898005

A & P Sign: _____

N153TS 12/23/23, Tach 2,188.9, Type Insp. Thru Service
- Left Main Tire found flat, Jacked, Removed & replaced
tube Assy. Reinstalled Left Main Wheel Assy and removed
Jack. I certify that this aircraft has been serviced IAW Diamond
Tech Pubs Determined to be in Airworthy Condition. END
A&P Print: Thomas Tassopoulos A&P 2898005
A & P Sign: _____

NOT

BROUGHT
FORWARD



DUNCAN
AVIATION

Airframe Log Entry

Reg#: N153TS
S/N: 42.118
Hrs: 849.9

Make: Diamond
Date: 04/08/2024
Lnds: NA

Model: DA42-NG

Performed 2 yr pitot/static ops checks. Tested and inspected the pilot's altimeter and Standby automatic pressure altitude reporting systems IAW Title 14 CFR part 91.411 and ATC Transponder tests and inspections IAW title 14 CFR part 91.413(a) and found to comply with the Title 14 CFR part 43, appendices E and F. All tests pass at this time. A/C tested to 20,000ft.

The above described repair or maintenance is approved for return to service. A detailed record is on file under Work Order # KDKPA

Signed: Pedro Roque Q.I. 2736

Duncan Aviation CRS#JGVR194F

Phone: 203-266-2149



DGM Aircraft Maintenance
9100 Republic Airport Rte 109
SB5
Farmingdale, NY 11735

Make: Diamond (Austria)
Model: DA 42 NG
Tail: N153TS
S/N: 42.118

Hours: Tach: 2188.9 Hobbs: 853.6 A/CTT: 2188.9

Airframe Logbook

Completed 100 Hour inspection in reference to Diamond service manual and FAR 43 Apdx D. Lubed landing gear and wheel bearings. Serviced brake system with 5606. Performed normal and emergency gear extension checks with no defects noted. ELT inspected I/AW FAR 91.207(d) and checks good. Battery due date 007/2029. Replaced right brake caliper piston O-ring with new P/N: MS28775-222. Replaced left tire inner tube with new P/N: 302-246-401. Replaced left main fuel tank drain valve with new P/N: CAV180. Replaced Elevator trim hardware with new P/N: MS24665-12(X2), LN9348-M4 (X2), LN9037-M4X18. Replaced right fuel filter drain calve with new P/N:CAV180. Insp/lubed flight controls.

- C/W AD 22-06-08 by inspection OK. Next due Tach: 2388.9

- C/W AD 24-06-13 by replacing T-Bolt P/N: D60-5320-00-32, Din125A-M6, Dim9021-M6-A2 washer, Din985-M2-A2 Nut, An416-1 Pin.

AD's checked thru 2024-15. Run up, leak checks and system checks satis. Approved for return to service.

Signed: _____

Name: Emanuel Castano

Cert: _____

A 4556937

Date: _____

11/01/2024

ENGINEERING RECORD

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Date: 11/01/2024 Hours: Tach: 2188.9 Hobbs: 853.6 A/CTT: 2188.9

Tail#: N153TS

Make: Diamond (Austria) Model: DA 42 NG S/N: 42.118

Airframe Logbook

I certify that this aircraft has been inspected in according with an annual inspection
and was determined to be in an airworthy condition



William Mundy

DGM Aircraft Maintenance

Cert: AP 2750364 IA

Sign: *William E. Mundy*LICENCE
NUMBER

N153TS 11/08/24 L Tach 2198.4 Hobbs 870.2
Jacked Aircraft Removed & Replaced Right Main Tire with
New Goodyear 15x6.00 6 Ply tire, Serviced to Required PSI.
Removed Jack and returned aircraft to Airworthy Condition.
A&P Print: Thomas Tassopoulos,

A&P # 2898005, A&P Sign: *[Signature]*

N153TS 06/30/25 L Tach 2201 Hobbs 876.7
Serviced Left Main Landing Gear Strut, Serviced
both Main Tires, Replaced Nose Gear Lower Clamp
bracket. Aircraft returned to Service END
A&P Print: Thomas Tassopoulos,

A&P # 2898005, A&P Sign: *[Signature]*

AIR TIME AND

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

Log Book Entry



8100 Republic Airport
Farmingdale NY 11735
United States

Telephone: 631-756-5500

Email: Maint@ventura.aero

Registration: N153TS
Manufacturer: Diamond
Model Number: DA 42 NG

Serial Number: 42.118
AC Tach Time: 2220.3 Hrs
AC Hobbs Time 906.0 Hrs

Work Order: NY1970
Engine TT 1205.3 Hrs
September 3rd 2025

Complied With/Performed The Following Inspections/Maintenance:

1. Installed New (Customer Supplied) Electrical Connector On Left Engine Waste Gate Control Valve.
Run Up And Ops Check OK.
2. Repaired Left Engine Turbo Inlet Duct Tube As Needed.

The items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details are on file with Ventura Aviation under Work Order NY1970

Michael Tarascio

A&P 2924231

N153TS 9/13/2025 TT: 2230.0 H: 923.7

- Serviced LH MLG strut with Nitrogen

- Replaced RH MLG inner tube.

- This aircraft is returned to service
for work stated above

Ready to fly AP2770994IA

CARRIED FORWARD