AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

AIRCRAFT DATA

1.	Nationality & Registration	USA N520RA	
2.	Manufacturer's Designation (Make & Model)	DA 62	_
3.	Manufacturer's Serial Number	62.095	
4.	Type Approval or Specification Number	ASACE	
5.	Date of Manufacture	September 2018	
6.	Aircraft Inspection Cycle		

DATE	All	RTIME	LANDINGS / CYCLES							
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						NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
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ATA Ch.	Component	Hours	Years	Next Due			
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24	ECU backup batteries LM / RM		٠,	Aug 23, 2019			
27	Boit correcting flap push rods to flap bell trank midsection at rear main bulkfread	1000		1000 hrs			
ACA_	ACA 01	Continu	Date	ee replacement en extrage, our to with wt B	2882/18, dated Sept USA Registration Lesurface I A.W. FAR4 ELT reprogrammed ELT function checke 91.207 par D. Aircraft and docume STC's incorporated, All applicable Airwor with. See attached in AWD Bi-weekly che Aircraft and docume same configuration of Current of Current of Current of See Current	AC Senal Number. Work Order The Export Certificate of Airwork tember 03, 2018 etters 'N520RA' installed on 5.25 (b) (2). Hex ID ADC verified for Right of I.A.W. CAR 571 appendix none found. thiness Directives, Service Beyort ecked thru 2018-20 intation reviewed, aircraft founds 'Factory W&B Report' datempty Weight = 1700 kg OR Empty C of G = 2.431 m OR in Weight = 2300 kg OR 50 Oseful Load = 600 kg OR 13 rent W&B Report and AFM 7 is AIRCRAFT CONFORMS on No. 26 AND IS IN A FIT All as been performed IAW the Application of the Information of the III All as been performed IAW the Application of the III All as been performed IAW the Application of the III All as been performed IAW the Application of the III All as been performed IAW the Application of the III All as been performed IAW the Application of the III All as been performed IAW the Application of the III All as the III All III	thinese No. So origo thinese No. So origo

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ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2254 AIRCRAFT: N520RA TACH: 58.8 TTAF: 58.8

MODEL: Diamond DA 62 S/N: 62.095

DATE: 03/29/2019

Replaced the R/H vent window latch block with new (P/N: 301.25.4115). Added silicone RTV to rear cabin door seal base as needed to make full contact with door frame. All work completed in accordance with the Diamond DA 62 Maintenance Manual. –END

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

Brandon Thompson A&P 3212565

This aircraft has been the intended flight



11/13/2019

ABSOLUTE AERO

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 - 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2587 AIRCRAFT: N520RA TACH: 103.0 TTAF: 103.0

MODEL: Diamond DA 62 S/N: 62.095

DATE: 12/12/2019

Complied with Diamond Factory Campaign FC 62-012 "Improved Lightning Protection Installation" on both engine cowlings and firewalls and submitted execution report. Complied with Diamond MSB62-026 Rev. 0 by installing missing bonding cables. Replaced the following parts with new: EECU batteries (4EA P/N: LC-R127R2P), alternator excitation batteries (2EA P/N: LC-R121R3P), and the L/H aux tank drain valve (P/N: DA4-9028-17-01). Replaced both fuel filters supplied in service kit (P/N: DA42-AE-100KIT). Bled the L/H coolant system and serviced to fill using Zerex G48 pre-mix. Re-sealed the R/H main and nose landing gear hydraulic actuators using the following new parts: (2EA P/N: MS28775-131, X11-0006-039179, X11-0006-402471, X11-0006-402473, X11-0006-01-00.02). Bled and serviced the landing gear hydraulic system. Serviced all oleo struts with nitrogen. Complied with DA 62 AMM Ch. 12 lubrication schedule and anti-corrosion coating checklist. Serviced all wheel bearings. Charged and desulfated main battery and performed capacity test; passed C1: 103.7%. Removed all airframe access panels and covers. Inspected interior and exterior of airframe, wings and empennage. Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time.

I have performed an operational check and inspection on this ELT in accordance with FAR 91.207D and it has been determined to be in an airworthy condition. ELT battery expiration date: 01/2025. Verified AD's current through FAA AD biweekly 2019-25. All work completed in accordance with the Diamond DA 62 Maintenance Manual. –END

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.

	Brandon Thomps	son A&P / IA 3212565		
		 		
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ABSOLUTE AERO

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

AIRFRAME ENTRY

WORK ORDER: 2984 AIRCRAFT: N520RA TACH: 163.5 TTAF: 163.5

DATE: 12/15/2020

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Complied with Diamond Factory Campaign FC 62-010 Rev. 5 by replacement of the data plate and the AFM. Complied with Diamond Factory Campaign PC 62-010 Rev. 0.5) Teplacement of the data plate and the AFM.

Replaced the following parts with new: EECU batteries (4EA P/N: LC-R127R2P), alternator excitation batteries (2EA P/N: Replaced the following parts with new: EECU batteries (4EA P/N: DA42-AE-100KIT). Re-sealed the R/H main. Replaced the following parts with new: EECU patteries (4EA P/N: DA42-AE-100KIT). Re-sealed the R/H main and LC-R121R3P). Replaced both fuel filters supplied in service kit (P/N: DA42-AE-100KIT). Re-sealed the R/H main and LC-R121R3P). Replaced both fuel filters using the following new parts: (2EA P/N: MS28775-131, X11-0008-030478 LC-R121R3P). Replaced both fuel filters supplied in service and (17th 2017). Re-sealed the R/H main and nose landing gear hydraulic actuators using the following new parts: (2EA P/N: MS28775-131, X11-0006-039179, X11-0006-01-00.02). Bled and serviced the landing gear hydraulic system. nose landing gear hydraulic actuators using the following flow parts. (2017) 131, X11-0006-039179, X11 0006-402471, X11-0006-402473, X11-0006-01-00.02). Bled and serviced the landing gear hydraulic system and both 0006-402471, X11-0006-402473, X11-0006-12 lubrication schedule and anti-corrosion coating checklist. 0006-402471, X11-0006-402473, X11-0006-01-00.02). Died and services the family gear hydraulic system and both brake systems. Complied with DA 62 AMM Ch. 12 lubrication schedule and anti-corrosion coating checklist. Serviced all brake systems. Complied with DA 62 AMM ch. 12 lubrication schedule and anti-corrosion coating checklist. Serviced all brake systems. Complied with DA 62 AMM Crt. 12 Iduntation School and anti-controlled Country and performed capacity test; passed C1: 101.2% per Concorde TB-wheel bearings. Charged and desulfated main battery and performed capacity test; passed C1: 101.2% per Concorde TB-wheel bearings. Charged and desulfated main battery and performed capacity test; passed C1: 101.2% per Concorde TB-wheel bearings. Charged and desulfated main battery and performed capacity test; passed C1: 101.2% per Concorde TB-wheel bearings. wheel bearings. Charged and desultated main battery and performed capacity test, passed of 101.2% per Concorde To 13. Removed all airframe access panels and covers: inspected interior and extends of airframe, wings and empennage.

Inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed inspected all flight controls, rigging, stops, angles and all attach points for the wings, engine and landing gear. Performed Inspected all flight controls, rigging, stops, angles and an attach points for the rings, engine and landing gear. Performe operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time, operational tests of the retractable landing gear in normal and emergency configurations. No defects noted at this time. operational tests of the retractable landing gear in Horman and emorgency configurations. No defects noted at this time. I have performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection on this ELT in accordance with FAR 91,207D and it has been always performed an operational check and inspection of the performance of the I have performed an operational check and inspection on this EET in accordance with the Diamond DA 62 Maintenance Manual —END determined to be in an airworthy condition. ELT battery expiration date. 6172025. Verified AD's current through determined to be in an airworthy condition. ELT battery expiration date. 6172025. Verified AD's current through determined to be in an airworthy condition. ELT battery expiration date. 6172025. Verified AD's current through determined to be in an airworthy condition. ELT battery expiration date. 6172025. Verified AD's current through determined to be in an airworthy condition. ELT battery expiration date. 6172025. Verified AD's current through determined to be in an airworthy condition. ELT battery expiration date. 6172025. Verified AD's current through determined to be in accordance with the Diamond DA 62 Maintenance Manual. –END biweekly 2020-25. All work completed in accordance with the Diamond DA 62 Maintenance Manual.

I certify that this aircraft has been inspected in accordance with FAR 43 Appendix D (Annual Inspection) and has been determined to be in an airworthy condition.

Brandon Thompson A&P / IA 3212565 CARRY FORWARD to Top of Next Page PAGE TOTALS

May 03, 2021

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

N520RA TACH: 271.5

DIAMOND AIRCRAFT INDUSTRIES GM, DA 62, S/N: 62.095

- 1. Performed Annual inspection I/A/W AC43-13 Appendix D using Diamond DA62 Aircraft Maintenance Manual as a reference.
- 2. Aircraft interior and exterior cleaned. Removed engine cowlings and all access panels for inspection.
- 3. Nose baccage carpets and rear wall removed. Inspected TKS tank & lines, oxygen system & lines, battery compartment & battery, and all lines & electrical connectors/ wiring. Nose baggage door latches inspected and force tested. No defects noted.
- 4. Hydraulic system components inspected and verified hydraulic fluid level. Reinstalled all carpets and panels in nose compartment.
- 5. Inspected front doors and rear passenger door. Inspected windows, door hinges, and tested door open warning lights. Replaced LH vent window latch with new.
- 6. All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers and breakers. No defects noted.
- 7. Inspected seats and seat belts for proper operation. No defects noted.
- 8. All flight control cables, pulleys, rudder pedals, control rods and control sticks inspected and lubricated.
- 9. Inspected all systems in rear compartment. RACC system air inlets and outlets, wirings, and mounting inspected.
- 10. Reinstalled all interior panels and seat assemblies. Verified proper operation of seats belts after interior re-installation. 11. 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.
- 12. Inspected inner and outer flap assemblies, ailerons assemblies, hinges and pushrods. No defects noted.
- 13. 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.
- 14. Inspected Pitot-static probe and stall warning sensor. No defects noted.
- 15. 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
- 16. 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,
- 17. 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. Found slight superficial damage to both LH and RH gear doors. No other defects noted.
- 18. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks.
- 19. Main battery removed, tested, charged and reinstalled.
- 20. ELT inspected I/A/W FAR 91.207(d), battery replacement due 01/2022.
- 21. All access panels reinstalled and reinstalled engine cowlings.
- 22. All systems checked for proper operation, no defects noted.
- 23. All other routine service items performed.
- 24. Verified AD compliance through this date.
- 25. Removed RH and LH brake linings with new. Installed (8) 066-15500 Brake, Lining.
- 26. Removed and replaced tail bonding cable with new as required. Installed (1) stock bonding strap material.

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 794.

James T. Markey IA AP3166872IA

wo: WO 916

Airframe - page 1 of



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

Diamond

N520RA Tach: 315.5 DIAMOND AIRCRAFT INDUSTRIES GM, DA 62, S/N: 62,095

July 10, 2021

Low coolant annunciator activated. Topped off coolant as required.

2. Removed and replaced broken bonding cable on nose gear with new unit as required.

I certify this aircraft was inspected in accordance with an Annual Inspection, this airframe is 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_916.

James T. Markey IA AP3166872IA



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

N520RA Hobbs: 229.3

DIAMOND AIRCRAFT INDUSTRIES GM, DA 62, S/N: 62.095

1. Performed Annual inspection I/A/W 14 CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance Management of the CFR part 43 Appendix D using Diamond DA62 checklist and DA62 checkli

Tach: 374.4

August 18

Aircraft interior and exterior cleaned. Removed engine cowlings and all access panels for inspection.

- 3. Nose baggage carpets and rear wall removed. Inspected TKS tank & lines, oxygen system & lines, battery compartment & band all lines & electrical connectors/ wiring. Nose baggage door latches inspected and force tested. No defects noted.
- 4. Hydraulic system components inspected and verified hydraulic fluid level. Reinstalled all carpets and panels in nose comparing
- Inspected front doors and rear passenger door. Inspected windows, door hinges, and tested door open warning lights. Replaced window latch with new.
- 6. All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers and breakers. No defects no
- 7. Inspected seats and seat belts for proper operation. No defects noted.
- 8. All flight control cables, pulleys, rudder pedals, control rods and control sticks inspected and lubricated.
- 9. Inspected all systems in rear compartment. RACC system air inlets and outlets, wirings, and mounting inspected.
- 10. Reinstalled all interior panels and seat assemblies. Verified proper operation of seats belts after interior re-installation.
- Inspected inside of engine nacelles. Inspected all wiring, connectors, fuel lines, TKS lines, TKS junction blocks, EECU's and attach bolts. No defects noted.
- Inspected inner and outer flap assemblies, ailerons assemblies, hinges and pushrods. No defects noted.
- Fuel tanks and fuel interconnecting hoses inspected. All bonding wires inspected. Checked all fuel vents for blockages and operation, no blockages found and vents operate normally.
- 14. Inspected Pitot-static probe and stall warning sensor. No defects noted.
- 15. Rudder removed for tail inspection. Rudder, rudder hinges, rudder trim tab, rudder gap seal, elevator, elevator push rod, elevator trim tab, elevator mounting brackets, and elevator mass balance all inspected. No defects noted. Rudder assembly to and reinstalled.
- Aircraft placed on jacks. All wheel assemblies removed. Removed, cleaned, inspected, repacked and reinstalled all wheel beam tires inspected for wear and proper air pressures verified. Wheel assemblies reinstalled.
- 17. All gear assemblies inspected. Verified proper nitrogen pressures in all oleo struts. Inspected all gear links, gear doors, gear all other gear related pieces. Found slight superficial damage to both LH and RH gear doors. No other defects noted.
- 18. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks.
- 19. Main battery removed, tested, charged and reinstalled.
- 20. ELT inspected I/A/W FAR 91.207(d), battery replacement due 01/2022.
- 21. All access panels reinstalled and reinstalled engine cowlings.
- All systems checked for proper operation, no defects noted.
- 23. All other routine service items performed.
- Verified AD compliance through this date.
- 25. Removed RH brake linings with new. Installed (4) P/N 066-15500 Brake, Lining.
- 26. Removed and replaced worn R/H brake pads and (1) broken shim with new units as required.

I certify this aircraft was inspected in accordance with an Annual Inspection, this airframe is determined Airworthy and is approved for service. Details of work performed are on tipe with Take Flight Aviation LLC under work order: WO_911.

James T. Markey IA AP3166872IA

Diamond

Actrame

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

N520RA

wo: WO 1069

Tach: 428.5

January 13,2

- 1. Removed and replaced worn R/H tire and tube with new units as required. Installed P/N 6.00-6 Tire, Installed P/N 6.00-6 Tube
- Serviced L/H and R/H struts with nitrogen as required.
- Installed new shim for R/H brake caliper as required. Installed P/N 06-01197 Brake Shim.

With respect to the work performed, I certify that this airframe has been determined airworthy and is approved for return to service. Dear work performed are on file with Take Flight Aviation LLC under work order: WO_1069.

James T. Markey IA AP3166872IA

Jan Ish

PAGE TOTALS

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NCE:

/ACA

Eor

Registration #: N520RA

Manufacturer: Diamond Aircraft Industries



TACH: 516.60 HOEBS: 439.20 A/C Total Time: 516.60

Aircraft Serial No: 62 095 Date: 09/07/2022

Part/Model No: Diamond DA62

Work Order No: 534

 Annual Inspection. Inspected ELT per 91.207(D), battery expires 01/2025. Serviced aircraft battery and box. Greased & lubed wheel bearings and landing gear. Performed landing gear swing, good at this time. Performed ground run; ops check normal. Checked all ADs for compliance. I certify this aircraft has been inspected IAW an Annual Inspection per FAR 43 App. D and Diamon J AMM and was determined to be in an airworthy condition.

- ECU batteries replaced with new at this time 4 ea (P/N: NP7-12).
- Installed new brake linings P/N-066-15500 on LH and RH brake assy.
- Repaired dome nut and aft right nacelle panel.
- Installed new fuel sump P/N-CAV-180. Ops check normal; no leaks detected.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE

Pertinent details of maintenance are held in this flaintenance Facility under Work Order No 534 dated .

Signature:

Work Order: 534

PTK-9488-08-2023 (08-21-2023)

MAKE: Diamond Aircraft Ind MODEL: DA62 S/N: 62.095

REG. NO: N520RA

Waterford Aviation, Inc. 6548 Highland Rd Suite 900 Waterford, MI 48327

Page 1 / 1 W/O #: PTK-9488-08-2023 DATE: 08-21-2023 A/C TT: 641.1 A/C Tach: 641.1

Airframe Entries

Replaced RH main tire and tube with new, P/N 606C6-8 and 092-500-0 respectively. Inflated with dry shop air, leak check good. Work done in reference to Diamond DA62 AMM 32-40.

DATE: 08-21-2023

Sean Farrelly

WORK ORDER: PTK-9488-08-2023

Printed by EBIS (EBISCloud com)

A&P Number: 3890041

Registration #: N520RA

Manufacturer: Diamond Aircraft Industries



TACH: 646.40 HOBBS: 603.60 A/C Total Time: 646.40

A/C Total Time: 646.40 Aircraft Serial No: 62.095

Date: 10/07/2023

Part/Model No: Diamond DA62

Work Order No: 1843

PAGE

- Annual inspection. Inspected ELT per 91.207(d), battery expires JAN 2025. Jacked aircraft, removed wheels, cleaned bearings, repacked bearings, and reinstalled wheels. Performed landing gear swing, good at this time. Performed 200hr airframe servicing items. Ground run and ops check good. Checked all ADs for compliance. I certify this aircraft has been inspected IAW an Annual inspection per FAR 43 App. D and Diamond AMM and was determined to be in an airworthy condition.
- ECU batteries replaced with new at this time 4 ea (P/N: NP7-12). Next due October 2024.
- · Replaced LH and RH fuel cap protectors with new.
- · Installed new plug in RH control stick.
- · Serviced oxygen system with aviator's breathing oxygen.
- Replaced RH nose baggage door spring with new (P/N: D60-5231-52-00).
- Replaced LH most forward coolant hose with new (P/N: DS HC-1-35-0235). Leak check good.
- · Removed bird nest from LH engine firewall and cleaned area around it.
- Replaced LH and RH aux fuel tank sumps with new (P/N: CAV-180). Leak check good.
- · Replaced LH step grip tape with new.
- · Replaced RH wing outboard vent tubing with new.
- Replaced 1 retaining circlip on LH landing gear folding stay with new (P/N: DIN471A-10X1-A2).
- Replaced LH fuel cap cable with new (P/N: D67-2817-31-00).

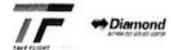
THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 1843 dated .

	MODERN	1817 Aviation Dr. Wilmington, NC 28405 United States	Telephone: 910-505-9508 Email: ILMMX@modern-aviation.com
0.000	stration #: N520RA	Total AC Time:	Total AC Cycles:
	el number: DA-62	Aircraft Serial Number: 62	2.095
Work	Order No: NCRS-15476	Date: 03	3/08/2024
Squawk			
1.2	DURRING DISSASSEMBI NEW P.N. 164-25700. RI	Y, NOTED BRAKE ROTOR CRACKED IN EMOVED TIRE P.N. 606C86-6 S.N. 1293	WHEEL: UPON INSPECTION OF WHEEL ASSEMBLY SEVERAL PLACES. REPLACED BRAKE ROTOR WITH 20269 AND INNER TUBE. INSTALLED NEW INNER TUBE BLY. CLEANED, INSPECTED, LUBRICATED WHEEL
1.3	BEARINGS. REINSTALLE	D L/H WHEEL ASSEMBLY. ALL WORK O OSE TIRES TO 55 PSI (MAIN) AND 45 I	

CARRY FORWARD to Top of Next Page

	NAME/ SIGNATURE	AME or AMO/ACA
D&D Design, Inc		
CRS R58R222Y		
23 Hollybrook Road		
Paramus, NJ 07652 Phone (973-615-3856)	-	
The ATC Transponder Test and Inspections Required		
by FAR 91.413 were performed this date and found		
to comply with FAR 43, Appendix F.		
ircraft Make: Da Model: DA 62 S/N: 62.095 Reg: N520RA		
Make Model Garan GIX 3X5 SN 110 ALCON		
Make/Model S/N-		
Details of this inspection are on file at this repair station under.		
Work Order 1476 Date: 16 16 2024		
WOIX O'ILL' 1572		
MAN	-	
Signature		
The Altimeter and Static system tests required by		
FAR 91.411 were performed this date and found		7
To comply with FAR 43 Appendix E. Altimeter Was tested to: 20,000 feet on 10,10,2024		
Signature:		
2021:		
CRS R58R222Y MAIN \$ 5390		
	1	
	+	
	-	



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

N520RA

Diamond, DA62NG, S/N: 62.095

October 25, 202

Hobbs: 765.4

Tach: 764.7

- Performed Annual inspection I/A/W 14 CFR part 43 Appendix D using Diamond DA62 checklist and Aircraft Maintenance I_R
 ual as a reference.
- Aircraft interior and exterior cleaned. Removed engine cowlings and all access panels for inspection. Installed P/N B/S
 Cleaner Brake Cleaner.
- Nose baggage carpets and rear wall removed. Inspected TKS tank & lines, oxygen system & lines, battery compartment battery, and all lines & electrical connectors/ wiring. Nose baggage door latches inspected and force tested. No defects note:
- Hydraulic system components inspected and verified hydraulic fluid level. Reinstalled all carpets and panels in nose component.
- 5. Inspected front doors and rear passenger door. Inspected windows, door hinges, and tested door open warning lights.
- All interior removed for inspection. Inspected all lines, wires, electrical connections, switches, levers and breakers. No deleg noted.
- 7. Inspected seats and seat belts for proper operation. No defects noted.
- All flight control cables, pulleys, rudder pedals, control rods and control sticks inspected and lubricated. Installed P/N 09-2610.
 LPS2.
- 9. Inspected all systems in rear compartment. RACC system air inlets and outlets, wirings, and mounting inspected.
- Reinstalled all interior panels and seat assemblies. Verified proper operation of seats belts after interior re-installation.
- Inspected inside of engine nacelles. Inspected all wiring, connectors, fuel lines, TKS lines, TKS junction blocks, EECUs; wing main attach bolts. No defects noted.
- Inspected inner and outer flap assemblies, ailerons assemblies, hinges and pushrods. No defects noted.
- Fuel tanks and fuel interconnecting hoses inspected. All bonding wires inspected. Checked all fuel vents for blockages at proper operation, no blockages found and vents operate normally.
- Inspected Pitot-static probe and stall warning sensor. No defects noted.
- 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 inspected as required. No defects not Rudder assembly lubricated and reinstalled as required.
- 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 as required.
- All gear assemblies inspected. Verified proper nitrogen pressures in all oleo struts. Inspected all gear links, gear doors, generally, and all other gear related pieces as required.
- 18. Completed multiple normal gear swings and emergency gear swings. All operations normal. Aircraft removed from jacks.
- Main battery removed, tested, charged and reinstalled.
- ELT inspected I/A/W FAR 91.207(d). Battery Exp: 01/2025.
- 21. All access panels reinstalled and reinstalled engine cowlings.
- 22. All systems checked for proper operation, no defects noted.
- All other routine service items performed.
- Checked applicable AD's bi-weekly thru this date.
- 25. Troubleshoot the fuel indication system, found the outboard fuel level transducer to not be functioning properly. Removed if wing, removed the fuel tanks, installed the outboard sensor, reinstalled the tank and re-installed wing as required. Flushed: fuel tanks to remove contamination and moisture. Flushed fuel lines going from RH and LH tanks to engine. Removed contains in and recommend to customer to watch for contamination in RH wing. Installed P/N D60-2817-14-00_1-ASY DA62 Fig. Probe Assy -Short, Installed P/N WK724-3 Fuel filter.
- Ground run aircraft and found LH fuel quantity indication not working. Removed wing, trouble shot and found inboard sess failed. Removed and replaced inboard fuel sensor with new. Re-installed wing n aircraft as required. Installed P/N d64-2817-4 00-ASY Fuel Probe Assy, Installed P/N DIN3771-128X5.3 O-Ring Rev/Lot: RC2004910, Installed (6) P/N 15400032-19 Oetiker Clamp Rev/Lot: RC2006372.
- Re-attached Hydraulic line shield in LH gear well as required.
- 28. Repaired clear coat on aircraft nose and wings as required.
- Repaired degraded paint on cabin entry wing walks as required.
- Cleaned, prepped and re-painted pilots wing walk, aircraft nose and several spots on aircraft fuselage as required.
- Cleaned excessive glue from Co-Pilots window around inset window as required.
- 32. Cleaned nose gear hydraulic actuator and inspected for leak with no leakage noted.

I certify that this airframe was inspected in accordance with an Annual Inspection at Take Flight Aviation, LLC., and that this airframe has been determined airworthy and approved for return to service.

James T. Markey I	A 3166872 Jan	-1 mg	uly		
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