

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

Section 1: Airframe Log



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

Registration: N502LA
AC Serial Number: 62 C022
LH Engine Serial Number: E4P-C-00265
RH Engine Serial Number: E4P-C-00266
LH Prop Serial Number: 190626
RH Prop Serial Number: 190628
Airframe Total Time: 47 HRS

- Total Time Airframe Brought forward from Production Test Flight Journey Log (DAI - Form Q-224) 47 HRS
- Compass Swing Performed
 - Date FEBRUARY 24 2020
 - Next Due FEBRUARY 2021
- Static Pressure system and Primary Altimeter (G1000) have been inspected and tested in accordance with Standard 571, Appendix B and 14 CFR 91 411.
 - Test Date DECEMBER 16 2019
 - Next Due DECEMBER 2021
- ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with CAR Standard 571, Appendix F and 14 CFR 91 217 & 91 413
 - Test Date DECEMBER 16 2019
 - Next Due DECEMBER 2021
 - Programmed Registration N502LA
 - Hex Code N/A (USA Registration)
- The ELT was tested and inspected in Accordance with CAR Standard 571, Appendix G and 14 CFR 91.207
 - Manufacturers Cert. date 11/18
 - Installation Inspected FEBRUARY 25 2020
 - Battery due MAY 2025
 - Next ELT inspection due FEBRUARY 2021
 - ELT Programmed
 - REG N502LA
 - Hex ID N/A
 - Country 366 (USA)
 - 15 Hex ID. ADC64981359A781
- Garmin G1000 NXi Installation
 - System 1373 03
 - Checklist File N/A
 - Basemap Land 5 16
 - SafeTaxi Data Expires 26-MAR-2020
 - Terrain Data 3 00
 - Obstacle Data Expires 26-MAR-2020
 - Navigation Data Expires 27-FEB-2020
 - Apt Directory Expires 26-MAR-2020
 - FliteCharts Data Expires 27-FEB-2020
 - IFR/VFR charts Date 30-JAN-2020

FOR	N	30	60	E	120	150
STEER	003	032	062	089	118	147
FOR	S	210	240	W	300	330
STEER	178	209	241	271	303	333


Inspector

FEB 26 2020
date

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

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Airframe Total Time: 47 HRS

- Following limitations as per DA 62 AMM Chapter 4,5 (subject to change with revision)

Component	Hours	Years	Next Due:
Bolt connecting flap push rods to flap bell crank mid section at rear main bulkhead	1000 +/- 50	-N/A-	1000 hrs
ECU backup batteries LH/RH	-N/A-	1 yr +/- 30 days	DECEMBER 2020
Bonding system and static discharging system.	1000 +/- 50	4 yrs +/- 60 days	1000 or JAN 2024
Emergency battery package (if MAM 62-002 is NOT installed)	-N/A-	2 yrs	N/A, MAM62-002 Incorporated.

- The following STC's are incorporated.
 - No STC's incorporated
- THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS).
- I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO FAA TYPE CERTIFICATE A00012NY Rev No 0, AND IS IN A FIT AND SAFE STATE FOR FLIGHT.
- Bi-weekly AWD check carried out to current revision 2020-04 all applicable AD's complied with
- The work described above was carried out IAW the applicable Standard of Airworthiness.

 **DA Q 8**
Inspector

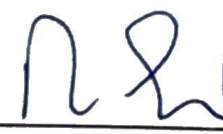
FEB 26 2020
date

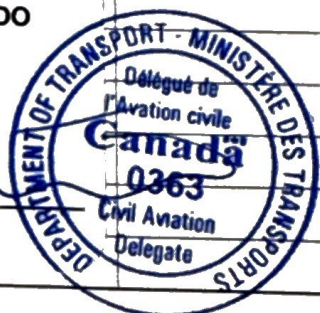
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U.S. Standard Airworthiness Certificate, issued:

(Date) **FEB 27 2020**, has been installed in the Aircraft on behalf of FAA Farmingdale/Saddle Brook MIDO Section AIR-8A5 on:

(Date) **FEB 27 2020**

(Print) R. Solton (Signature) 



Section 1: Airframe Log

MAKE Diamond
MODEL DA62
S/N 62 C022
REG NO N502LA
WORK ORDER 0129



Premier Aircraft Sales, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 8/6/2020
A/C TSN: 95.8
FLIGHTTIME: 95.8

Airframe Entries

- Replaced fuel filters

DATE: 8/6/2020

SIGNED:

Chad Cox, License: AP3782800

Work Order: 0129
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MAKE Diamond
MODEL DA62
S/N 62 C022
REG NO N502LA
WORK ORDER 0250



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 4/15/2021
A/C TSN: 187.1
FLIGHTTIME: 187.1

Airframe Entries

- Performed Annual Inspection using DA62 AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced ECU backup batteries
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced brake linings 066-15500
- Activated Flight Stream 510 option on G1000
- Replaced GCU476 with overhauled 011-00476-00 S/N 48W000316
- Replaced LH fuel filler placard D67-1127-20-31_01
- Performed composite repair of both lower cowlings at exhaust outlet duct

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

DATE: 4/15/2021

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0250

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3-19-22

TSN 262.5

Removed Left main tire +
Tube due to FLAT. INSTALLED
New Goodyear FLT CUSTOMER
AND Michelin Tube. WORK
ACCOMPLISHED PER MM.

Raeel Bana
A+B 264 (010)

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TOTALS

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PDG Services + 670 Ferris Rd., Suite 104 + Lancaster TX 75146


ACFT REG. **N502LA**

TIME

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

The **altimeter**, transponder & altitude reporting system has been inspected and found to comply with the requirements of FAR 91.411 & 91.413, to an altitude of **25,000** ft. Pertinent details of the certification are on file at this repair station under the work order # **22-0430**, dated **4.26.22**.


Paul Gardner
CRS G49R038Y

(Authorized Signature)
214-886-5894

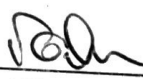
4.26.22
(Date)

PDG Services + 670 Ferris Rd., Ste. 104 + Lancaster, TX. 75146

ACFT REG. **N502LA**

TIME

The **altimeter** system has been inspected and found to comply with the requirements of FAR part 91.411, to an altitude of **25,000** ft. Pertinent details of the certification are on file at this repair station under the work order # **22-0430**, dated **4.26.22**.


Paul Gardner
CRS G49R038Y

(Authorized Signature)
214-886-5894

4.26.22
(Date)

MAKE: Diamond
MODEL: DA62
S/N: 62 C022
REG. NO: N502LA
WORK ORDER: 0562


Premier
Aircraft Service

Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 5/11/2022
A/C TSN: 274.5
FLIGHTTIME: 274.5

Airframe Entries

- Performed Annual Inspection using DA62 AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced ECU backup batteries
- Replaced fuel filters
- Replaced induction air filters
- Complied with 100 Hour lubrication

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

DATE: 5/11/2022

SIGNED: 

Chad Cox, License: AP3782800 IA

Work Order: 0562

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MAKE: Diamond
MODEL: DA62
S/N: 62 C022
REG. NO: N502LA
WORK ORDER: 0575


Premier
Aircraft Service

Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 5/11/2022
A/C TSN: 274.5
FLIGHTTIME: 274.5

Airframe Entries

- Replaced RACC temp sensor

DATE: 5/11/2022

SIGNED: 

Chad Cox, License: AP3782800 IA

Work Order: 0575

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Section 1: Airframe Log



Going your way every day since 1957
Aircraft Logbook Entry

DA

1

CARR
FORW

Date: 2-16-2023
TSMOH:

Aircraft: N502LA
TTAF: 391.7

SN: 62.C022
Tach: 391.7

Annual inspection completed this date. Complied with 100 and 200 hour requirements. Replaced left alternator with a new unit p/n ES-10024B-2 s/n H-W092837. Replaced multiple washers on exterior panels with new. Secured wing tie down rings. Reattached left wing fuel vent lines to panel. Tightened and secured left fuel strainer lines. Inspected the ELT in accordance with FAR91.207D. Battery good till 5-30-2025. Repaired nose gear bonding wire with new terminal end. Epoxied interior nutplates in place for aft cabin baggage. Complied with the low pressure TKS switch testing. Complied with the TKS strainer cleaning. AD's checked thru CD2023-02. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

[Signature]

A&P3296474IA

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040



Going your way every day since 1957
Aircraft Logbook Entry

Date: 2-16-2023
TSMOH: 391.7

Aircraft: N502LA
TTAF: 391.7

SN: 62.C022
Tach: 391.7

Replaced air conditioner controller with a new unit p/n D67-2510-50-00 s/n RC2200885

[Signature]

A&P3296474IA

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

Date: March 28th, 2023

Make: Diamond
A/C TSN: 409.9

Model: DA62
FLIGHT TIME: 409.9

Serial: 62.C022

REG NO: N502LA

Removed left main tire and tube, replaced with new Goodyear Flight Custom III tire 6.00-6 and new Michelin tube 6.00-6 IAW MM. Aircraft returned to service.

[Signature]

Cary Jones

A&P3571661

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MAKE Diamond
MODEL DA62
S/N 62 C022
REG NO N502LA
WORK ORDER 0806



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone 562 881 5345

DATE 4/12/2023
A/C TSN: 422.7
FLIGHTTIME: 422.7

Airframe Entries

- Replaced 2nd alternator voltage regulator with new VR2000-28-1 S/N 80W69409

DATE: 4/12/2023

SIGNED:

Chad Cox, License AP3782800 IA

Work Order: 0806

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MAKE Diamond
MODEL DA62
S/N 62 C022
REG NO N502LA
WORK ORDER 0815



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone 562 881 5345

DATE: 4/12/2023
A/C TSN: 422.7
FLIGHTTIME: 422.7

Airframe Entries

- Serviced landing gear struts with nitrogen
- Replaced pilot cup holder
- Serviced RH coolant system

DATE: 4/12/2023

SIGNED:

Chad Cox, License AP3782800 IA

Work Order: 0815

Printed by EBis 3 (datcomedia.com)

MAKE Diamond
MODEL DA62
S/N 62 C022
REG NO N502LA
WORK ORDER 0828



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone 562 881 5345

DATE: 4/21/2023
A/C TSN: 434.6
FLIGHTTIME: 434.6

Airframe Entries

- Replaced RH coolant safety valve

DATE: 4/21/2023

SIGNED:

David Seastead, License AP3492477 IA

Work Order: 0828

Printed by EBis 3 (datcomedia.com)



GERDES AVIATION SERVICES

FAA Approved Repair Station G3RR399J

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 502LA Pach/Hobbs 570.9 ACTT 570.9
Date 06-17-2024 Authorized Signature: [Signature]

P.O. Box 1157 Los Alamitos CA 90720 Office (714) 525-7545

CALL
FOR

W/O #: 4608
DATE: 09-27-2024
A/C TT: 570.9
A/C Tach: 570.9

PLACEMENT

- AIRFRAME ENTRIES**

 - Complied with 100hr Annual inspection using Diamond aircraft chapter 5 maintenance manual and FAR part 43 appendix D as a guide.
 - All applicable Airworthiness Directives have been researched through bi-weekly issue 2024-18
 - Complied with ELT Annual inspection using FAR 91.207(d) as a guide with no defects noted. ELT Batteries expires: 05/2025
 - Replaced LH and RH engine fuel filters PN:WK724_3 (X2) for annual replacement using Diamond DA62 AMM Ch.28 as a guide. Operation/leak check good.
 - Replaced GMA 1347 PN: 011-00809-00 SN: 47108507 (old sn:17106809) and re-configured as a required due to internal failure, using G1000NXi LMM and Diamond DA62 AMM Ch. 34 as a guide. Operation check good.
 - Replaced ECU batteries PN: NP7-12 due annually using Diamond DA62 Ch. 24 as a guide. Operation check good.
 - Replaced alternator exciter batteries PN: NP1.2-12 using Diamond DA62 Ch. 24 as a guide. Operation check good.
 - Performed 1000hr bonding and static discharging system check using Diamond DA-62 Ch. 51-80 as a guide.
 - Performed MSB62-042/1 Rudder rib mounting hole correction using WI-MSB 62-042/1 Section III as a guide. Operation check good.
 - Performed MSB 62-045 REV. 2 by visually inspecting the starter wiring using WI-MSB 62-050 R2 as a guide.
 - Performed MSB62-049R2 by replacement of original wing covers with hinge drain cover panels using WI-MSB 62-049 R2 and Diamond DA62 AMM as a guide.
 - Performed RSB 62-050 by installation of Bowden cable extension PN: D60-7103-00-30 on parking brake lever using WI-RSB 62-050 and Diamond DA62 AMM Chapter 32 as a guide. operation check good
 - Performed MSB-62-051 by replacing MLG and NLG PN: DIN471-10x1.0-MZP (x6) DIN471-20x1.2-MZP (x4) DIN471-18x1.2-MZP (x2) retaining rings using Diamond DA62 AMM Ch.32 as a guide.
 - Complied with AD2024-07-03 by torque checking horizontal stabilizer attachment bolts using Diamond WI-MSB62-052 Section III as a guide.
 - Replaced LH brake disc PN 164-25700 and pads PN. 066-15500 due to wear using Diamond DA62 AMM Ch. 32-40 as a guide. Operation check good.
 - Replaced RH brake disc PN 164-25700 and pads PN. 066-15500 due to wear using Diamond DA62 AMM Ch. 32-40 as a guide. Operation check good.
 - Replaced LH fuel low pressure pump assembly seals due to leaks using Diamond DA62 AMM Ch. 28-20 as a guide. Operation check good.
 - Replaced RH fuel low pressure pump assembly seals due to leaks using Diamond DA62 AMM Ch. 28-20 as a guide. Operation/leak check good.
 - Replaced LH aux fuel pump PN: PX375-TC-28V-G2 SN: 37309 (old SN: 33823) due to leaks using Diamond DA62 AMM Ch. 28-20 as a guide. Leak check good.
 - Replaced RH aux fuel pump PN: PX375-TC-28V-G2 SN: 37133 (old SN: 33821) due to leaks using Diamond DA62 AMM Ch. 28-20 as a guide. Leak check good.
 - Removed and installed RH prop after overhaul with new hub SN: 241729 (OLD SN: 190628) due to gouging from de-ice nozzle using Diamond DA62 AMM chapter 61 as a guide. Replaced TKS nozzles PN: D60-9030-00-28 with loctite 638 due to loosening using Diamond DA62 AMM Ch. 71-10 and RSB 62-019 as a guide. Operation/leak check good.
 - Cleaned and treated aft horizontal steel bracket with LPS3 due to corrosion forming.
 - Replaced x4 RH engine shock mounts due to excessive wear/sagging using Diamond DA62 AMM Ch.71 as a guide.
 - Replaced all x4 LH engine shock mount due to excessive wear/sagging using Diamond DA62 AMM Ch.71 as a guide.
 - Replaced RH coolant tank sensor seal ring PN: DIN47803-A22x27Cu due to leak using Diamond DA-62 AMM Ch. 75-10 as a guide. leak check good.
 - Replaced Aux alternator belt using Diamond DA-62 Ch. 61-10 as a guide. Operation check good..
 - Replaced LH fuselage ice protection pads as required due to separation using Diamond DA62 AMM as a guide.
 - Replaced main battery PN: RG25-15 SN: 41371749 (OLD SN: 41033700) due to failed cap check using Diamond DA62 AMM chapter 24 as a guide. Operation check good.
 - Replaced right throttle microswitch PN: DAI-9052-00-02 due to switch broken using Diamond DA-62 CH. 76-10 as a guide.

I certify that this Aircraft has been inspected in accordance with Annual inspection checklists and was determined to be in airworthy condition.

SIGNED:

Jonathan Shea
Cert.: AP 3823821 IA

WORK ORDER: 4608

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