

AIRCRAFT TECHNICAL LOGS

Section 1. AIRFRAME

AIRCRAFT

1. Nationality and Registration N 356 AF
~~N 2508F~~
2. Manufacturer's Designation DA 20-C1
3. Manufacturer's Serial Number C0050
4. Type Approval or Specification Number A-191 / TA4CH
5. Date of Manufacture 1999
6. Aircraft Inspection Cycle _____

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 | | | | | | |
| DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVED MANUFACTURER 161-93 | | | COMPASS DEVIATION, ALL ELECTRICS ON | | | |
| SERIAL NUMBER C0050 | | | REGISTRATION N250BF | | | |
| INDEPENDENT CHECK OF FLIGHT AND POWERPLANT CONTROLS | | | | | | |
| DATE JAN. 25/99 | | | INSPECTOR [Signature] (DA Q 57) | | | |
| JAN. 27/99 | 00 | | 00 | | - AIRCRAFT IS SERVICEABLE FOR FLIGHT - | |
| JAN. 27/99 | 2.2 | | 2.2 | | | |
| JAN. 29/99 | 2.6 | | 4.8 | | | |
| I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO THE APPROVED TYPE DESIGN DATA AND IS IN A FIT AND SAFE STATE FOR FLIGHT. | | | | | | |
| DATE FEB. 1/99 | | | INSPECTOR [Signature] (DA Q 12) | | | |
| 15 FEB 99 | | | 5.1 | | <div style="border: 1px solid black; padding: 5px;"> Diamond Date: 15 Feb 99 S/N: C0050 Reg: N250BF WO#: R0990064 TTSN: 5.1 DAC1-76-01REV1 - Mixture control cable core replaced and cable support added. The maintenance described above has been performed in accordance with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161-93 Signature <u>[Signature]</u> Lic or Stamp (DA R012) </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Diamond Date: 5 April 99 S/N: C0050 Reg: N250BF WO#: R0990138 TTSN: 7.7 Tach cable replaced with new. The maintenance described above has been performed in accordance with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161-93 Signature <u>[Signature]</u> Lic or Stamp (DA R09) </div> | |
| / | | | | | | |
| 05 Apr:1 99 | | | 7.7 | | | |
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| | | | 7.7 | | | |

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

SIGNATURE

LICENCE NUMBER

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

I certify that the ATC Transponder & Altitude Reporting System(s) have been tested in accordance with Chapter 571, appendix F of the Airworthiness Manual and F.A.R. 91:217 & F.A.R. 91:413

The ELT was tested and inspected in accordance with Chapter 571, Appendix G of the Airworthiness Manual and F.A.R. 91:207(d)

DATE: JAN. 25/99 INSPECTOR: Mark Feat (DA Q17)

DATE: JAN. 25/99 INSPECTOR: Mark Feat (DA Q17)

I certify that the Static Pressure system has been inspected & tested in accordance with Chapter 571, Appendix B of the Airworthiness Manual, and F.A.R. 91:411

PERFORMANCE TEST DUE: OCT. 30, 1999
BATTERY DUE: NOV. 2000

DATE: JAN. 25/99 INSPECTOR: Mark Feat (DA Q17)

THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS) AND IS SERVICEABLE.

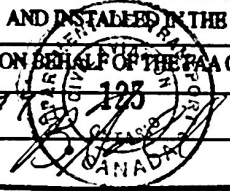
DATE: JAN. 27/99 INSPECTOR: Mark Feat (DA Q17)

T.M. V. Namana (DA Q18)
T.M. V. Namana (DA Q18)

U.S. STANDARD AIRWORTHINESS CERTIFICATE ISSUED

DATE 5 Feb 99 AND INSTALLED IN THE AIRCRAFT ON BEHALF OF THE FAA ON:

DATE 5 Feb 99 125

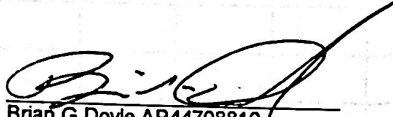

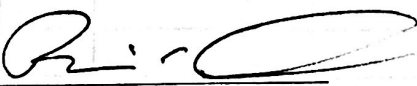


REG: N250BF TACH: 13.9
Date: 04-09-1999

Remove propeller and inspect mate surface in accordance with SB.#R-18. Removed slight discoloration with 400 grit paper I/A/W service bulletin. Retorqued to 20 foot pounds. Run up and ops. checked ok.

Brian G Doyle
Brian G Doyle AP44708810

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</small> |
|-----------------|-------------|------|---------------------------|------|---|
| | HRS. | MIN. | HRS. | MIN. | |
| BROUGHT FORWARD | | | | | |
| | | | | | <p>Reg: N250BF Tach: 33.6 Date: 04-21-1999</p> <p>Checked prop bolt torque and found it to be 15 Ft lbs. Retorqued to 20 Ft Lbs and resaftied bolts. Per SB R-18.</p> |
| | | | | |  Brian G Doyle AP44708810 |
| | | | | | <p>REG: N250BF TACH: 100.0 TTSN: 100.0 Date: 06-15-1999</p> <p>Performed Annual/100HR inspection in accordance with FAR 43 APP. D. and all applicable STC continued airworthiness data. Checked compression and found all cylinders to be within mfg limits. Change engine oil and filter. reserviced with 6 qts Aershell 15w-50, inspected filter and found no contaminates. Replaced induction air filter element. Replaced broken alternator bracket P/N 22-2411-13-00. Degreased engine. Run up, leak check and ops. checked normal. I certify this engine has been inspected in accordance with an annual/100 hr inspection and was determined to be in airworthy condition.</p> |
| | | | | |  BRIAN G DOYLE AP 447 |
| | | | | | <p>REG: N250BF TACH: 200.0 TT: 200.0 Date: 09-03-1999</p> <p>Performed Annual/100 HR insp. in accordance with FAR 43 APP. D, and all applicable STC continued airworthines data. Inspected ELT system per FAR 91.207. Replaced both main tires with new. Installed service kit DAC1-24-04-AMKO alternator bracket upgrade. Replaced braken vent window screws P/N 301.12.0039. Replaced induction air filter element with new bracket type. Checked AD's thru biweekly 99-15. (see AD list for details) I certify this aircraft has been inspected in accordance with an annual/100 inspection and was determined to be in airworthy condition.</p> |
| | | | | |  Brian G Doyle AP44708810 la |

E-Engine Guy

AIR TIME AND

ENGINEERING RECORD

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

DATE

DAILY TOTAL

TOTAL AIR TIME SINCE MFG.

BROUGHT FORWARD

Reg: 250BF Tach: 438.5
Date: 06-06-2000

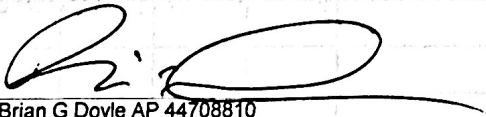
Changed engine oil and filter, reserviced with 6 qts Aeroshell 15w-50. Inspected old filter and found no metal. Run up and leak checked ok.



Brian G Doyle AP 44708810

Reg: N250BF Tach: 459.7
Date: 06-09-2000

Installed optional battery kit P/N DAC1-24-03 AMKO as per S/B DAC1-24-03 Rev. 0 . Weight and balance amended to reflect this alteration. Ops checked ok.



Brian G Doyle AP 44708810

CARRIED FORWARD

INSPECTION, REPAIRS & REPLACEMENT

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


SIGNATURE

LICENCE NUMBER

Reg: N250BF Tach: 479.1
Date: 06-30-2000

TTSN: 479.1


Performed annual /100 hr inspection using Far 43 app D, and all applicable STC continued airworthiness data as a guide. Inspected ELT system in accordance with FAR 91.207. Lubed airframe per Diamond maint manual. Replaced induction air filter and vacuum regulator filter. Checked ADs thru bi weekly 2000-11. I certify this aircraft has been inspected in accordance with an annual/~~100 hr~~ inspection and was found to be in an airworthy condition.


Brian G Doyle AP 44708810 IA

Reg: N250BF TACH: 577.0
Date: 08-11-2000


TTSN: 577.0

Performed annual /100 hr inspection using Far 43 app D, and all applicable STC continued airworthiness data as a guide. inspected ELT system in accordance with FAR 91.207. Replaced induction air filter element. Replaced R/H main tire. Checked ADs thru bi weekly 2000-14. I certify this aircraft has been inspected in accordance with an annual /100 hr inspection and was found to be in an airworthy condition.

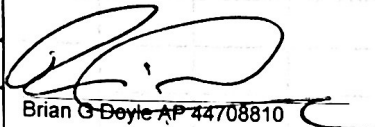
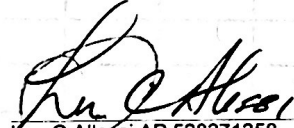
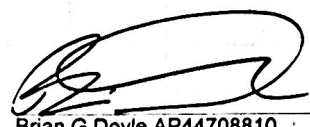

Brian G Doyle AP 44708810 IA

Reg: N250BF Tach: 551.9
Date: 08-11-2000

Replaced attitude gyro with new sigma tek P/N 23-501-06 -16. Adjusted vacuum suction to spec. ops checked ok.


Brian G Doyle AP 44708810

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 | Reg: N250BF Tach: 654.4 Date: 10-02-2000 | | | | <p>Replace R/H main tire with new. Replaced all brake pads with new.</p> <div style="text-align: center;">  Brian G Doyle AP 44708810 </div> |
| | Reg: N250BF TACH: 677.9 TTSN: 677.9 Date: 10-25-2000 | | | | |
| | <p>Performed 100 hr inspection using Far 43 app D, and all applicable STC continued airworthiness data as a guide. Inspected ELT in accordance with FAR 91.207. Replaced induction air filter element. Replaced spinner bulkhead with new unit. P/N DAC1-61-00A. Removed exhaust system and replaced all gaskets. Replaced Rudder adjust cable P/N 20-2700-21-00. Replaced parking brake cable P/N 22-3242-20-00. Checked ADs thru bi weekly 2000-20. I certify this aircraft has been inspected in accordance with a 100 hr inspection and was found to be in an airworthy condition.</p> | | | | |
| | <div style="text-align: center;">  Len C Alessi AP 528271358 </div> | | | | |
| | Reg: N250BF Tach: 678.00 Date: 10-28-2000 | | | | |
| | <p>Replaced ELT battery with new unit. EXP 10/2002. Ops checked ELT I.A.W 91.207.</p> | | | | |
| | <div style="text-align: center;">  Brian G Doyle AP44708810 </div> | | | | |
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AIR TIME AND

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD |
|--|-------------|------|---------------------------|------|---|
| | HRS. | MIN. | HRS. | MIN. | |
| 7/23/01 | | | | | <p style="text-align: center;"><i>ANNUAL</i></p> <p>100 Hour inspection completed this date. Installed new Gdyr 500x4 nose wheel tire. Repacked main wheel bearings. Cked. all lights, and serviced battery and brakes a/r. Ops. checked ELT.</p> <p>Tach; 860.4 7/23/01</p> |
| BROUGHT FORWARD | | | | | |
| <p>Date <u>7/23/01</u> Hours <u>860.4</u></p> <p>I certify that this Aircraft/Engine has been inspected in accordance with <u>Annual</u> inspection and was determined to be in airworthy condition.</p> <p style="text-align: right;"><i>John A. Bishop</i> AP1885250</p> | | | | | |
| | | | | | |
| 9/10/01 | | | 910.4 | | <p>50 hour inspection completed this date. Cked. all lights & serviced battery and brakes a/r. Replaced all brake linings. Replaced pilots rudder pedal adjusting cable.</p> <p>Tack; 910.4 <i>Len Hoss</i> AP5282705 9/10/01</p> <p>Reg: N250BF Tach: 976.3 TT: 946.3 Date: 1/4/02</p> <p>Tachometer was removed & temporarily installed in another aircraft. Tach reinstalled at this time. Tach read 946.3 when removed, now reads 976.3. A/C total time is 946.3</p> |
| | | | | | |
| <p>Date <u>3/1/02</u> <i>FAE</i> <u>976.4</u></p> <p>I CERTIFY THIS <u>Aircraft</u> HAS BEEN INSPECTED IN ACCORDANCE WITH <u>Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.</p> <p style="text-align: right;"><i>John A. Bishop</i> John A. Bishop AP1885250</p> | | | | | |
| | | | | | |
| | | | | | <p>Reg: N250BF Tach: 976.3 TT: 946.3 Date: 2/28/02 <u>3/1/02</u></p> <p>100 Hour Inspection completed this date. C/W Diamond Aircraft SB#DAC1-55-01AR3 by installation of lower stabilizer mounting bracket kit #Dac-1-55-01-AMKO. Repaired minor surface damage to top of left wingtip area i/a/w chapter 51 of Katana service manual. Replaced l/h nav. light bulb, lens, & lens retainer. ELT ckd. per FAR91-07D. Battery expires 10/02. Checked all lights and serviced battery & brakes a/r. I certify that this aircraft has been inspected i/a/w a 100 Hour inspection and was determined to be in an airworthy condition.</p> <p style="text-align: right;"><i>John A. Bishop</i> John A. Bishop AP1885250</p> |
| | | | | | |
| <p><i>John A. Bishop</i> AP26586116 1A</p> | | | | | |
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CARRIED FORWARD

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

Reg: N250BF Tach: 1076.5 TT: 1046.5
Date: 06-04-2002

100 Hour inspection completed per Diamond Aircraft insp. check list. Installed 2 500x5 4ply recap tires on main wheels. Cleaned & repacked wheel bearings as needed. Checked all lights & serviced battery & brakes as required. Inspected wings, controls, tail & control rods a/r. Replaced pilots side rudder pedal adjustment cable assy. ADs checked thru issue 2002-10. No applicable Ada at this time ELT inspected per FAR91-207D. Battery due 10/02. I certify that this aircraft has been inspected i/a/w a 100 hour inspection and was determined to be in an airworthy condition.

John A. Bishop
John A. Bishop AP1885250

REG: N250BF Tach: 1175.7 TSN: 1145.7
Date: 09-06-2002

100 Hour inspection completed i/a/w Diamond Maintenance manual check list. Replaced nose gear steering stops. Replaced both nose wheel bearings. replaced both main wheel brake discs and all linings. Cleaned & repacked bearings. Replaced starboard recognition lamp. Cked. all other lights. Cked ELT per FAR91-207D. Battery due 10/02. Propeller removed & sent to Sensenich for reconditioning. Replaced propeller flange bushings & reinstalled propeller using Diamond kit # DAC1-61-01AMKO. Installation accomplished per Diamond SB# DAC1-61-01R1. I certify that this aircraft has been inspected i/a/w a 100 hour inspection and was determined to be in an airworthy condition.

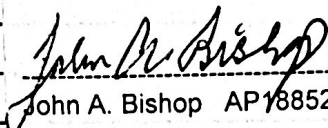
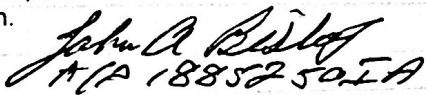
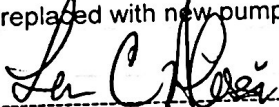
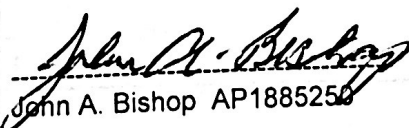
Len C. Alessi
Len C. Alessi AP528271358

REG: N250BF Tach: 1201
Date: 09-20-2002

Removed inop directional gyro and installed overhauled unit, p/n RCA11A-8, s/n 5632, from Berkshire Instrument Overhaul. Ops. check ok.

John A. Bishop
John A. Bishop AP1885250

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 | | | | | Reg: N250BF Tach: 1255 TT: 1225 Date: 10-21-2002 Installed new Elt battery, p/n GS52. ops. checked unit per FAR91-207D. Battery expires October 2004.  John A. Bishop AP1885250 |
| 11/1/02 | | | 1272.00 | | Reg: N250BF Tach: 1272 TT: 1242 Date: 11-01-2002 100 Hour Annual inspection completed i/a/w Diamond DA20-C1 maintenance manual check list. Replaced starboard nav. light lamp. ckd. all other lights and serviced battery and brakes as needed. Checked Elt per Far 91-207D. battery expires 10/04. Inspected wings, controls, acuator rods & bellcranks a/r. lubed aircraft as required. Cleaned & repacked wheel bearings as needed. ADs checked thru issue 2002-21. None applicable at this time. I certify that this aircraft has been inspected i/a/w an Annual inspection and was determined to be in an airworthy condition.  A/P 1885250 J.A. |
| 12/26/02 | | | 1278.00 | | Reg: N250BF Tach: 1308 TT: 1278 Date: 12-26-2002 Low speed side of fuel boost pump inop. Removed and replaced with new pump, s/n 0008. Ops. and leak checks good.  Len C. Alessi AP528271358 |
| 2/12/03 | | | 1311.4 | | Reg: N250BF Tach: 1341.4 TT: 1311.4 Date: 02-12-2003 Removed inop. attitude gyro and replaced with overhauled unit, p/n 5000B-36, s/n T48977J. Ops. check good. maintenance release in back of log.  John A. Bishop AP1885250 |

ENGINEERING RECORD

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

Hobbs: 1841.1 Tach: 1341.4 N250BF
 WO: 157 Task: 24mo cert CUST-PO: Verbal Bob

DISCR & ACTION: FAR 91.411 has been accomplished IAW Part 43 app E paragraphs A, B, D.
 This altimeter has been tested to 16,000 ft and found satisfactory for return to service. Pertinent details are on file at this facility.

Make: UI 20K Model: PN 5934PD-3 Serial: 422016

Automatic pressure altitude reporting system tested to 16,000 ft as required by FAR 91.411 IAW FAR 43, app E. Paragraph C.
 Make: Trans-Cal Model: SSD120-20 Serial: S17078

ATC transponder test and inspections required by FAR 91.413 were performed and found to comply with FAR part 43 app F.
 Make King Model: KT76A Serial: 111467

MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, appliance identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service:

"Pertinent details of the repair are on file at this repair station under

Work Order No. 157 Date 02/12/2003 Signed William P. Arnold
 William P. Arnold A&P 18347578
 for BSR Avionics Repair Station BSDR393X

Reg: N250BF Tach: 1371.7 TT: 1341.7
 Date: 03-21-2003

100 hour inspection completed per Diamond inspection check list. Installed 2 new 500x5 main gear tires. Cleaned & repacked bearings as needed. Replaced all brake linings. Lubed aircraft as required. Checked all lights and serviced battery and brakes as needed. ADs checked thru issue 2003-4. None applicable at this time. Ops. checked elt per Far91-207D. Battery expires 10 /04. I certify that this aircraft has been inspected i/a/w a 100 hour inspection and was determined to be in an airworthy condition.

John A. Bishop
 John A. Bishop AP1885250

Reg: N250BF Tach: 1384
 Date: 4/9/03

Installed new 500x5 6ply tire on nose wheel. Replaced parking brake cable and adjusted as needed. Installed new skid plate on tail. Replaced Egt probe assy. Ops. check good.

John A. Bishop
 John A. Bishop AP1885250

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

DATE: 5-11-04 Tach: 139.4 TSN: 1622.2

50 Hr. inspection completed this date. Checked tire pressures, lights, inspected battery for condition and security, Adjusted tire pressures. Checked prop bolt torque per Sensenich SB R-18 Rev 3.

Len C Alessi AP 528 271358

Date 6-19-04 Tach: 157.3 TSN 16401

Replaced pilots right rudder pedal assy. with new part P/N 22-2723-12-00. Installed new rudder adjust cable P/N 20-2700-21-00, all work performed IAW Diamond DA20C1A AMM 2720-00.

Len C Alessi AP 528 271358

Date 7-9-04 Tach: 161.9 TSN: 1644.7

100 Hour inspection completed per FAR 43 app D using Diamond aircraft DA20C1 checklist as a guide. Replaced all brake linings, cleaned and packed wheel bearings, lubricated flight controls, serviced battery and checked all lights. Checked ELT per FAR 91-207D, battery due 10/04. ADs checked thro T Data 2004-13, No ADs apply at this time. I certify that this aircraft has been inspected IAW a 100 Hr. inspection and was found to be in an airworthy condition

Len C Alessi
AP 528 271358

Date 7-9-04 Tach: 161.9 TSN 1644.7

Complied with Diamond Service bulletin DACI-71-02 RAO per instructions in Sec. 10 Checked propeller bolt torque, retorqued to 31 ft lbs.

Len C Alessi AP 528 271358

AIR TIME AND

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD |
|-----------------|-------------|------|---------------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE |
| BROUGHT FORWARD | | | | | |
| 10-2-04 | Tach 239.4 | | 1722.2 | | <p>Performed 50hr. inspection, Adjusted fore pressures, ops checked all lights, Inspected battery for condition and security of mounting, Insp. and lubricated Flight controls (I/W) Diamond SR DACI-71-02 propeller bolts/nuts.</p> <p style="text-align: right;"><i>L. C. Alesi</i> AP528271358</p> |
| 10/23/04 | | | 1743.1 | | <p>Reg #: N250BF Tach: 260.3 A/C TT: 1743.1 Date: 10-23-2004</p> <p>100 Hour inspection completed per FAR 43, App D and all applicable STC data. Installed 2 new main gear tires & tubes. Cleaned and repacked wheel bearings. Replaced 1 bearing & race in right main. Serviced battery and brakes as needed and checked all lights. Ops checked ELT per FAR91-207D. Battery expires 10/04. New battery on order. Replaced glare shield mounts as needed. ADs checked thru issue 2004-20. No applicable ADs at this time. I certify that this aircraft has been inspected i/a/w a 100 hour inspection & was determined to be in an airworthy condition.</p> <p style="text-align: right;"><i>L. C. Alesi</i> Len C. Alesi AP528271358</p> |
| 10/23/04 | | | 1743.1 | | <p>Reg #: N250BF Tach: 260.3 A/C TT: 1743.1 Date: 10-23-2004</p> <p>I certify that this aircraft has been inspected in accordance with ANNUAL inspection and was determined to be in an airworthy condition. ADs checked thru issue 2004-20. None applicable at this time.</p> <p style="text-align: right;"><i>John A. Bishop</i> John A. Bishop AP18852501A</p> |
| | | | | | <p>Reg #: N250BF Date: 11-01-2004</p> <p>Removed and replaced expired ELT battery. Ops. checked unit per FAR 91-207D. New battery expires 12/2006. Reinstalled unit in aircraft.</p> <p style="text-align: right;"><i>John A. Bishop</i> John A. Bishop AP1885250</p> |

ENGINEERING RECORD

| INSPECTION, REPAIRS & REPLACEMENT <small>ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.</small> | SIGNATURE | LICENCE NUMBER |
|--|-----------|----------------|
| <p><i>Date: 12/9/04 Tach: 300.0 TT 1792.8</i></p> <p><i>Installed new canopy seal P/N 1085H2SP</i></p> <p><i>and adjusted latch tensions per Diamond</i></p> <p><i>Service Bulletin DA C1-52-01 Rev 0. Replaced</i></p> <p><i>missing Brake line grommet R. side P/N RB221</i></p> <p style="text-align: right;"><i>Len Alessi AP518271388</i></p> | | ✓ |

Tach
 Jobs: 0324.6 N250BF
 WO: 340 Task: 24mo Insp. CUST-PO: Verbal Bob

DISCR & ACTION: FAR 91.411 has been accomplished IAW Part 43 app E paragraphs A, B, D.
 This altimeter has been tested to 16,000 ft and found satisfactory for return to service. Pertinent details are on file at this facility.

Make: UI 20K Model: PN 5934PD-3 Serial: 422016

Automatic pressure altitude reporting system tested to 16,000 ft as required by FAR 91.411 IAW FAR 43, app E. Paragraph C.
 Make: Trans-Cal Model: SSD120-20 Serial: S17078

ATC transponder test and inspections required by FAR 91.413 were performed and found to comply with FAR part 43 app F.
 Make King Model: KT76A Serial: 111467

MAINTENANCE RELEASE

The aircraft, airframe, aircraft engine, appliance identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Regulations and is approved for return to service.

"Pertinent details of the repair are on file at this repair station under
 Work Order No. 340 Date 04/01/2005 " Signed

William P. Arnold
 William P. Arnold A&P 18347578 IA
 for BSR Avionics Repair Station BSR393X

Reg #: N250BF Tach: 360.0 A/C TT: 1842.8
 Date: 06-02-2005

100 Hour Annual inspection completed i/a/w Diamond Inspection check list. Checked all lights and serviced battery and brakes as needed. Ops. checked ELT per FAR 91-207D. Battery expires 12 /06. Inspected wings, controls, pulleys & push/pull rods a/r. Lubricated aircraft as required. ADs checked thru issue 2005-10. No applicable ADs at this time. I certify that this aircraft has been inspected i/a/w an ANNUAL inspection and was determined to be in an airworthy condition.

John A. Bishop
 John A. Bishop A/P 1885250 IA

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 | | | | | |
| 4-19-05 | | Tach | 340.0 | | Performed 50 hr. insp. Checked brakes, Adjusted tire pressures, Ops checked lights, Inspt & lubed flight controls <i>George L. Mackinnon A&P 1876438</i> |
| 10/2/05 | | TACH | 464.3 | | 50/100 HR INSPECTION COMPLETED I/A/W DIAMOND INSPECTORAL CHECK LIST. CKED ALL LIGHTS SERVICED BATTERY AS NEEDED CKED BRAKES. REPLACED NOSE TIRE & TUBE. OPS CKED ELT PER 91-207D EXPIRES 12/06 INSF WINGS, CONTROLS, PULLEYS & PUSH RODS. LUBRICATED ACFT AS REQUIRED. I CERTIFY THAT THIS ACFT. HAS BEEN INSPECTED I/A/W 50/100 HRS INSPECTION & WAS DETERMINED TO BE IN AIRWORTHY CONDITION |

George L. Mackinnon
A & P LIC #
1876438

Registration: N250BF --- S/N: 050
Date: 4-25-2012
Hobbs: 2841.5
A/F Total Time: 2000.5
TSMOH:

Replaced Gill Battery with new Gill Battery model G35M s/n G02737238. Ground run engine, electrical systems ok.

George L. Mackinnon, A&P 1876438
Date: 4/25/2012

George L. Mackinnon

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE NUMBER

N250BF

This aircraft has been inspected and has been found safe for the intended flight in accordance with Special Flight Permit dated May 1, 2012.

George L. Mackinnon, ATP 1876438

George L. Mackinnon



DATE: 01 June 2012 N356AF TACH: 518.7 TT: 2001.5

Complied with 100, 200, and 1000 hour scheduled maintenance checks per the DA20-C1 AMM. Checked and serviced the battery. Installed new vacuum garter filter, P/N B3-5-1, and gyro inlet air filter, P/N RA-D9-18-1. Installed new compass card. Replaced lap belts with new manufactured by Aircraft Belts, Inc., on Form SC-108B, P/N JTA002200-DO-010, and P/N JT00220000-AO-010. Replaced grommet for left brake line through bottom of fuselage. Removed and replaced both brake discs, P/N 164-24200. Replaced the battery drain tube tee, P/N 0716-015. Installed all new brake linings, P/N 066-10600. Cleaned and resealed the brake calipers. Rotated the right main tire and replaced the outboard bearing and race in this wheel assembly. Replaced the left MLG wheel outboard bearing and race. Installed all new nose shock mount rubbers, P/N 22-3220-05-06-1. Installed new nose tire tube. Removed and replaced the left and right flap rod ends with new P/N XM4MT-C3. The ELT battery was changed with new P/N GS-52; now due June 2014. The EBC-502 ELT system was checked and inspected I/A/W FAR 91.207(d) and found to be in compliance. The brakes were bled and the reservoir serviced. Complied with AD 93-05-06 by inspection and lubrication of the ignition switch. I certify that this airframe has been serviced and inspected I/A/W an annual inspection per FAR 91.409(a)(1) and was determined to be in airworthy condition.

FCW SW Ad
Compl. and

Timothy D. Kearns
Timothy D. Kearns

2693851 IA

Registration: N356AF ---- S/N: 050

Date: 6-3-2012

Hobbs: 519.3

A/F Total Time:

TSMOH:

AIR TIME AND

ENGINEERING RECORD

TH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLET

Changed aircraft N number from N250BF to N356AF

George L. Mackinnon

George L. Mackinnon, A&P 1876438

Date: 6/3/2012

Date: 8-7-2012

Registration: N356AF ---- S/N: 050

Hobbs:

A/F Total Time: 2002.9

Tach: 520.1

Replaced Oil Pressure gauge/sender kit p/n 22-7930-10-00, Ground run engine, no leaks, all systems check ok.

George L. Mackinnon, A&P 1876438 Date: 8-9-2012

George L. Mackinnon

Date: 12-28-2012

Registration: N356AF ---- S/N: 050

Hobbs:

A/F Total Time: 2006.9

Tach: 524.1

Removed KLX135A GPS/Radio p/n 069-01029-0703 serial #122410, and sent to Lancaster Avionics, Inc. Approval Cert # CRS# LN7R261N for checkout and repair. Unit was repaired and check ok. Re-installed unit and all functions ok.

George L. Mackinnon, A&P 1876438 Date: 12-28-2012

George L. Mackinnon

CARRIED FORWARD



LICENCE NUMBER

Registration: N356AF ---- S/N: 050
Date: 6-15-2013
Hobbs: 2855.8
Tach: 526.5
A/F Total Time:
TSMOH:

Changed out interior and seat cushions with new seat cushions and carpeting. Seat cushions were made by OREGON AERO Scappoose, Or - see Invoice # INV57850 for materials and specs. Carpeting came from Airtex Products, Inc Fallsington, PA. See invoice # 102821 for material spec.

George L. Mackinnon
George L. Mackinnon, A&P 1876438
Date: 6/15/2013



Mailing
PO Box 128
Maxwelton WV 24957



Office (304) 647-5024
Fax (304) 647-4537

N356AF Date: 10-22-2013 Make: Diamond Model: DA-20-C1 Serial#: 050 Hobbs: 2855.9 Tach: 526.6

Inspected airframe in accordance with 14 CFR part 43 appendix D and Diamond DA-20-C1 100 hour check per AMM. Serviced aircraft battery and cleaned battery compartment. Pulled wheels and bearings, cleaned, repacked and reinstalled. Checked brake pads for wear. Pulled seats, inspected for proper flight control attachment and movement. Performed AD 93-05-06 Magneto switch lubrication. Installed new vacuum garter filter p/n B3-5-1, and gyro inlet filter P/N RA-D9-18-1. Aircraft was determined to be **UNAIRWORTHY** for the following reasons:

**Mandatory Rudder Cable 10 year Timelife Exceeded
No Valid Airworthiness**

Scott Yoak AP 2784288 IA

Scott Yoak AP 2784288 IA



DATE: 23 Oct. 2013 N356AF TACH: 526.6 TT: 2009.4

Complied with 10 year/3000 hour rudder control cables (cockpit and aft fuselage) replacement per Chapter 27-20-00 of the DA20-C1 AMM Rev. 16. Set cable tension and checked for correct range of movement. Installed new P/N CSKIT-01, S/N CS0705528-10000(1).

Timothy D. Kearns

2693851 A&P

Timothy D. Kearns

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE NUMBER

SouthTecAviation
Mobile (334) 728-6806

Date: Sep, 24, 2014 DA20 C1 S/N C0050 Reg: N358AF
Tach: 539.5hrs

Completed reweigh of aircraft to replace lost Weight & balance. Provided weighing report
And empty weight, moment and useful load for insertion in logbook.

- Empty CG: 9.13"
- Empty Weight: 1204.75lb.
- Useful Load: 559.25lb.

I certify this weight & Balance to be accurate I/AW Diamond Aircraft C1 AMM. All work
done I/AW Applicable FAR regulations and returned to service.

Glenn M. Lawler
Glenn M. Lawler

AP 2151929 IA



DATE: 25 Nov. 2014 N356AF TACH: 545.5 TT: 2028.3

Installed new gyro inlet, vacuum garter, and induction air filters. Installed new canopy placards. Serviced and charged the main battery. Replaced both nose gear strut airframe journal bearings. Replaced the nose gear fork bushings and reset the tension. Replaced both nose wheel steering stops. Complied with Diamond DA20-C1 50 and 100 hour inspection requirements. Removed ELT and placarded instrument panel "ELT not installed" per FAR 91.207(f)(a)(1). Washed exterior. I certify that this aircraft has been inspected I/A/W an annual inspection per FAR 91.409(a)(1) and was determined to be in airworthy condition.

Joseph Smith
Joseph Smith

3167653 IA

AIR TIME AND



DATE: 23 Dec. 2015 N356AF TACH: 586 TT: 2068.8

Removed and replaced both main wheel tires with new Condor 5.00x5 6 ply tires. Removed and replaced the main battery with new Gill G35M, S/N G02839414. Removed and replaced the nose wheel bearings, P/N 6004285-DIN625. Installed customer supplied decals. The ACK E-04, S/N 012149, ELT system was checked and inspected per FAR 91.207(d) and found to be in compliance. The ELT battery is due 2020. Resecured document holder to aft panel. Replaced broken nylon screws on LH vent window as necessary. Touched up paint on several small erosion areas. Replaced the RH wheel outboard bearing and cone. Removed and replaced the entire exhaust system with an inspected serviceable system. Installed a new EGT probe, P/N 10-05468. Washed exterior. I certify that this aircraft has been inspected I/A/W an annual inspection per FAR 91.409(a)(1) and was determined to be in airworthy condition.

Joseph Smith
Joseph Smith

3167653 IA

Date 3/29/16 I Certify that transponder. Make King

Model KT76A S/N 111467 has been tested and found to comply with requirements of FAR 91.413.

Signature Randall Hoel
Systems-Communications - Avionics Division
FAA Repair Station XBFR736K

W/O 16028

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24018

1 of 1

Airframe Date: 10/19/2016 Tail Number: N356AF Aircraft Make/Model: Diamond Aircraft DA 20-C1
Aircraft Hobbs 2990.5 Aircraft S/N: C0050 Tach: 620.6

Service performed: Replaced RH main tire tube with new P/N AS50141 500 x 5.5 tire tube. Torqued to manufacture specifications and performed leak checks. No leaks found at time. No damage or defects were noted.

All work listed above REF: Diamond Aircraft DA 20 Series Airplane Maintenance Manual , REF: FAR 43.9.. In REF to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.

Gary Powers
Gary Powers A&P3473787

CARRIED FORWARD

ENGINEERING RECORD

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24012

1 of 3

LICENCE NUMBER

Airframe Date: 1/4/2017
Aircraft TT: 2129.1

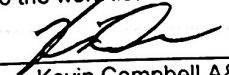
Tail Number: N356AF
Aircraft S/N: C0619

Aircraft Make/Model: Diamond DA20-C1
Tach: 646.3

Service performed: Cleaned, inspected and serviced all wheel bearings. Inspected all flight controls and travel limits. All were within limits. Checked all cockpit engine controls and all checked normal. Inspected and serviced Gill G35 battery IAW Gill Service and Maintenance manual. inspected heat muff. C/W 12 month portable fire extinguisher inspection and cabin fire bottle was within limits. Complied with checklist set forth in Diamond DA20-C1 AMM Scheduled Maintenance Checks section 05-20-00. Installed new Bracket Induction Filter Element P/N: BA-235E. No AD's for Airframe issued at this current time. Appliance AD 93-05-06 ACS ignition switch previously C/W on 6/01/2012. Next due at AFTT: 4001.5.

Performed operational inspection of aircraft and systems and no leaks or defects were noted at this time.

All work listed above performed REF: Diamond Aircraft DA20-C1 Aircraft Maintenance Manual and I/AW FAR 43.9. In reference to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.


Kevin Campbell A&P 3537913IA

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24012

2 of 3

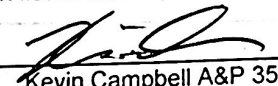
Airframe Date: 1/4/2017
Aircraft TT: 2129.1

Tail Number: N356AF
Aircraft S/N: C0619

Aircraft Make/Model: Diamond DA20-C1
Tach: 646.3

Service performed: Inspected and tested the ACK Technologies Inc. E-04, S/N: 012149 system in this aircraft according to applicable Aircraft and ELT manufactures instructions and applicable FAA guidance and found it meets the requirements of FAR 91.207 (d). Battery due replacement by January 3, 2020.

In reference to the work listed above, this ELT was found to be in an airworthy condition and is approved for return to service.

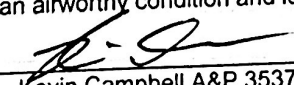

Kevin Campbell A&P 3537913IA

Airframe Date: 1/4/2017
Aircraft TT: 2129.1

Tail Number: N356AF
Aircraft S/N: C0619

Aircraft Make/Model: Diamond DA20-C1
Tach: 646.3
Hobbs: 3026.9

I certify this aircraft has been serviced and inspected I/AW an Annual Inspection REF: FAR 43 appendix D and REF: FAR 43.11. This aircraft was found to be in an airworthy condition and is approved for return to service.


Kevin Campbell A&P 3537913IA

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 FOF | | | | | |

Kane Aviation LLC. 22 Waypoint Dr. Roanoke, VA. 24012

1 of 1

Airframe Date: 2/17/2017 Tail Number: N356AF Aircraft Make/Model: Diamond Aircraft DA 20-C1
 Aircraft Tach: 657.3 Aircraft S/N: COO50

Service performed: Replaced L/H main tire tube with new 500 x 5.5 tire tube. Torqued to manufacture specifications and performed leak checks. No leaks found at time. No further damage or defects were noted.

All work listed above REF: Diamond Aircraft DA 20 Series Airplane Maintenance Manual , REF: FAR 43.9. In REF to the work listed above, this aircraft was found to be in an airworthy condition and is approved for return to service.



Casey McGuffee A&P Pending



Freedom Aviation
 310 Hangar Road
 Lynchburg, VA 24502
 (434) 237-8434
 CRS# BGSR439C

Date: 01/15/2019
 Aircraft: N356AF
 Type: DA20-C1
 Tach: 676.9
 WO: A19-0122
 S/N: C0050

Airframe Entries I certify that this transponder test required by 14 CFR 91.413 have been performed and found to comply with 14 CFR Part 43, Appendix F.

Make/Model King KT76A
 SN# 79613
 Mode: A/C
 End.

Maintenance Release

The aircraft and/or component(s) as listed above was repaired and inspected in accordance with current Federal Aviation Regulations. Pertinent details are on file at this repair station.


 Jason K. Moore CRS# BGSR439C

CARRIED FORWARD

ENGINEERING RECORD



SouthTec Aviation
Office: 704-431-6862

3330 Airport Loop Road
Salisbury, NC 28147
Info@southtecaviation.com

Date: February 15, 2019 | Diamond DA20-C1 | S/N: C0050 | Reg: N356AF

Removed and replaced fire paint on upper and lower cowings.

All work performed in accordance with manufacturer's maintenance manual.

Glenn M. Lawler

A&P 2151929 IA

D TIME COLUMNS.

SIGNATURE

LICENCE
NUMBER

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/28/2019 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 677.8 Total Time: 2160.6

Work Performed: Re-assembled aircraft after transport to location.

All work listed above was performed I/R/T Diamond DA20 Series Airplane Maintenance Manual and AC 43.13.

William Painter A&P 3170695IA

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/20/2019 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 677.8 Total Time: 2160.6

Work Performed: Cleaned, inspected, and serviced wheel bearings. Inspected and lubricated all flight controls, surface deflections within limits. Installed new lower fin skid plate. Installed new rudder tower and cables. Installed overhauled exhaust header pipe on #3 cylinder. Installed new alternator belt. Installed new nose gear leg. Installed new 5.00-4 tire and tube on nose wheel. Installed new main Yuasa battery. Differential compression test performed I/A/W TCM SB03-3, results as follows: #1: 73/80, #2: 69/80, #3: 69/80, #4: 68/80. Weighed aircraft, new weight is 1169 lbs., new CG is 7.99".

Operational run-up and leak check performed. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA20 Series Airplane Maintenance Manual and AC 43.13. In reference to the work listed above this aircraft was found to be in an airworthy condition and is approved for return to service


William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/20/2019 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 677.8 Total Time: 2160.6

Work Performed: I certify that this aircraft has been inspected I/A/W an **Annual Inspection** I/A/W Diamond DA20 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/28/2019 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 678.3

Work Performed: Installed new ignition switch P/N: 10-357210-1. Operational run up performed; no defects noted.

All work listed above was performed I/R/T Diamond DA20 Series Airplane Maintenance Manual, Diamond Service Bulletin DAC1-74-03 Rev 2 dated 09 March 2011, and AC 43.13.


Casey McGuffee A&P 3957181

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012


Airframe Date: 6/14/2019 Tail #: N356AF

A/C Make/Model: Diamond JA20

A/C S/N: C0050 Tach Time: 680.6

Work Performed: Installed new voltmeter. Operational check performed with no defects noted.

All work listed above was performed I/R/T Diamond DA20 Series Airplane Maintenance Manual and AC 43.13.


Casey McGuffee A&P 3957181

Weight and Balance

 Model: DA20-C1 Serial Number C0050 Registration N356AF

Data with reference to the Type Certificate Data Sheet and the Flight Manual

Reference Datum: Leading edge of wing at root rib.

Horizontal reference line: Wedge 1000:55.84, 2000mm (78.7 in) aft of the step in the fuselage at the canopy edge.

Equipment list - dated _____ Cause for Weighing _____

Weight and Balance Calculations

Weight Condition:

Include brake fluid, engine oil and Unusable fuel (Type 2 system, 2 liters unusable, 3.18 lbs/1.44 Kg)

Finding Empty Weight:

Finding Arm: (Measured)

| Support | Gross ((kg) (lbs)) | Tare ((kg) (lbs)) | Net Weight ((kg) (lbs)) | Lever Arm ((m) (in)) |
|-----------------------|-----------------------|----------------------|----------------------------|-------------------------|
| Front G ₁ | 237 | -3 | 234 | X ¹ = -44 |
| Rear G _{2LH} | 480 | -3 | 477 | X _{2LH} = 21 |
| Rear G _{2RH} | 460 | -2 | 458 | X _{2RH} = 21 |
| EMPTY WEIGHT (G) | | | 1169 | |

Finding Empty - Center of Gravity (X_{CG})

Empty Weight CG Formula:

$$X_{CG} = \frac{(G_1 \times X_1) + (G_{2LH} \times X_{2LH}) + (G_{2RH} \times X_{2RH})}{G_1 + G_{2LH} + G_{2RH}} = 7.99"$$

Finding Empty - Weight Moment

 Empty-weight Moment: M = Empty Weight (G) x Empty-weight CG
 (Positive results indicate, that CG is located aft of RD) 9339.0

Finding the Maximum Permitted Useful Load:

| | |
|--------------------------------|-----------------|
| Maximum Weight [kg] (lbs) | 800 kg/1764 lbs |
| Empty Weight [kg] (lbs) | 1169 lbs |
| Maximum useful Load [kg] (lbs) | 595 lbs |

| | |
|---|--|
| Empty Weight (G): ((kg) (lbs)) 1169 lbs | Empty-weight Moment (M): ((kg.m) (in.lbs)) 9339.0 in lbs |
| Place/Date KROA 5/15/2019 | Authorizing Stamp A&P3170695 |
| | Authorizing Signature William Painter |

Figure 6.3 - Weighing Report

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 10/8/2019 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 683.0

Work Performed: Installed new nose landing gear elastomer pack. Installed new flap actuator; rigged flap control system.

No defects noted at this time.

All work listed above was performed I/R/T Diamond DA20 Series Airplane Maintenance Manual and AC 43.13. In reference to the work listed above, this aircraft was determined to be in an airworthy condition and is approved for return to service.


Casey McGuffee A&P 3957181

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012


Airframe Date: 04/13/2020 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 683.0

Work Performed: Installed new nose landing gear fork assy. Installed new flap position microswitch; rigged flap control system. Ops check good. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA20 Series Aircraft Maintenance Manual and AC 43.13. In reference to the work listed above, this airframe was determined to be in an airworthy condition and is approved for return to service.


Jeffrey W. Stuber A&P 3588836

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 5/19/2020 Tail #: N356AF

A/C Make/Model: Diamond DA20 Engine Make: Continental

Engine Model: IO-240-B Engine S/N: 1006616

Tach Time: 683.0 Total Time: ~~2372.6~~ ^{AP} 2165.8 SW

Work Performed: Installed engine S/N 1006616 from N139DA. Engine total time is 2372.6 TSMO is 2372.6. **No run up or leak check was performed because the throttle body needed overhauled.**

All work listed above was performed I/R/T Teledyne Continental IO-240 Series Maintenance Manual and AC 43.13. In reference to the work listed above, this engine was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/12/2021 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 683.5 Total Time: 2166.3

Work Performed: Cleaned, inspected, and serviced wheel bearings. Inspected and lubricated all flight controls, surface deflections within limits. Replaced intake air filter. Replaced vacuum regulator filter. Resealed left copilot master brake cylinder. Replaced heater hoses from cowl to muffler and muffler to bypass door. CW AD 76-07-12 Ignition Switches by performing test in section 1. Next due 783.5 Performed differential compression test, results as follows: #1: 74/80, #2: 73/80, #3: 72/80, #4: 74/80.

Operational run-up and leak check performed. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA20 Series Airplane Maintenance Manual and AC 43.13. In reference to the work listed above this aircraft was found to be in an airworthy condition and is approved for return to service


William Painter A&P 31706951A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/12/2021 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C0050 Tach Time: 683.5 Total Time: 2166.3

Work Performed: I certify that this aircraft has been inspected I/R/T an **Annual Inspection** I/R/T Diamond DA20 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.

Airframe Date: 4/12/2021 Tail #: N356AF

A/C Make/Model: Diamond DA20

A/C S/N: C050 Tach Time: 683.5 Total Time: 2166.3

Work Performed: Inspected and tested the ECB-502, S/N: 211338 ELT in this aircraft according to applicable aircraft and ELT manufactures instructions and applicable FAA guidance and found it meets the requirements on FAR 91.207 (d). **Battery due replacement by August 2021.**


William Painter A&P 31706951A


William Painter A&P 31706951A

AC MAKE: Diamond Aircraft
AC MODEL: DA20-C1
AC S/N: C0050

SPARKCHASERS

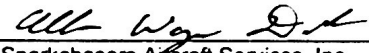
—Aircraft Services, Inc.—
AIRFRAME LOGBOOK ENTRY

TACH TIME: 717.10
HOBBS: 3130.20
A/C REG. #: N356AF

Date: July 1, 2021

I certify that the below ATC transponder(s) tests and inspections required by FAR 91.413 have been performed IAW Appendix F, of FAR Part 43 and documented on W.O.# 10-21824 dated 07/01/2021.

Make: Bendix King Model: KT76A SN: 111467

Signed  for
Sparkchasers Aircraft Services, Inc.
FAA CRS# XSPR699K

N Number
N356AF


Date
8/6/2021

TACH/HOBBS
721.3

Log Entry

Removed RH wing from this aircraft due to bird strike. Wing assembly was given to aircraft owner for sublet repair. Refer to WO #G04799 on file at Dillon's

Aviation, Inc.


William R. Renn For Dillon's Aviation, Inc.
AP3579353

CARRIED FORWARD



EAP Aircraft Services LLC
123 Cambridge drive
Goldsboro NC 28530
919-429-1168

Make: Diamond
Model: DA20-C1
Tail: N356AF
S/N: C0050

Hours: ACFT TACH: 0721.1

LICENCE NUMBER

Installed R/H wing after repairs were made by RMZ Aviation LLC (W/O 122005, P/N 22-5707-00-00). Installed and rigged R/H wing Flap and R/H Aileron. Installed new NLG tube and tire (Tire P/N 504C61-2, S/N 12370049 , Inner tube P/N GI-50467N). Installed New ELT batter (P/N GS-52) and tested ELT IAW FAR 91.207 (d) Battery due replacement September 2023. Installed new main ship battery (P/N T50-N18L-A-CX, S/N 581240. All work was performed IAW Diamond DA20 MM and 43.13-2B.

Signed: Bruce K Gardner
Name: Bruce K. Gardner

Cert: A&P 3371702 IA
Date: 02/01/2022

Airframe Logbook
Date: 06/17/2022



| | | |
|----------------|----------------------|--|
| Reg No: N356AF | Aircraft Type: DA-20 | Aircraft S/N: C0050 |
| Flight: N/A | Hobbs: 3145.5 | Aircraft Total Time: 3145.5 <u>Hobbs</u> |
| TACH: 727.7 | Engine SMOH: 0.0 | Engine total time: 2422 <u>22 10.5</u> SW |

1. Removed propeller for engine overhaul. P/N: MT 175 R150 2CA S/N: 18018 Reinstalled prop IAW aircraft and prop maintenance manual. Needs to be retorqued after first flight.
2. Removed engine for overhaul by Triad Aviation W/O # 27201 Model number IO-240-B S/N: 1006616, with new magnetos from Kelly Invoice number: 1925917, 1925918, LH MAG P/N: ES4310 S/N: J-K08072, RH MAG P/N: ES4309 S/N: J-K08064. Reinstalled engine IAW aircraft and engine maintenance manual.
3. Performed engine fuel flow set up, leak and operational check good.
4. Installed new fuel and oil hoses by Aero Aviation CO. Hose Shop. Invoice #: H45108-1.
5. Installed new rod ends on throttle P/N: HF3M
6. Installed new engine mounts, bolts, nuts, and bushings.
7. Installed new AFT fuel sump/drain P/N: CAV-110H-4 IAW Aircraft maintenance manual
8. Installed new oil pressure switch P/N: 020-308 IAW Aircraft maintenance manual
9. Replaced vacuum hose.
10. Removed tail skag and repainted.
11. Installed new YUASA battery.
12. Removed Bendix/King KX125 Nav/Comm P/N 069-01028-1101 Sn. 6431 and installed Bendix/King KX125 Nav/Comm P/N 069-01028-1101 Sn. 7822 "inspected/tested" by MAC Aircraft Maintenance CRS# FSER011E under WO# PO. #22-1642, see 8130-3 dated 04/04/2022. Ops check good, no defects noted.

This aircraft, airframe, engine, propeller, or appliance identified was repaired and/or inspected in accordance with the current regulations of the Federal Aviation Administration and is approved for return to service for the work performed.

Date: 06/17/2022 Signed: Nathan Parton
Nathan Parton, A&P: 4368564



Thoroughbred Aviation Maintenance, Inc.
Airframe

Date: 06/29/2022 Type: Diamond DA20-C1 WO: 223262
AC: N356AF AC SN: C0050 Hobbs: 3147.5
AFTT: 3147.5 Engine TT: 2419.1 Eng SMOH: 1.8

1. Performed operational check of ELT per FAR 91.207 (D). Ops check good. Batteries Due: 09/2023
2. Completed all lubrications as required.
3. Removed and replaced pneumatic and garter filters as required.
4. Removed fuel strainer screen to clean and inspect. No defects noted. Install screen with new gasket and secured as needed.
5. I certify this airframe has been inspected IAW an annual inspection per 14 CFR par 43 appendix D and found to be in airworthy condition. Diamond DA20-C1 annual checklist used as a guide.

-----End-----

MAINTENANCE RELEASE

The aircraft and/or component identified was repaired in accordance with current FAA regulations and was found airworthy for return to service for the work performed. "Pertinent" details of the repair are on file at this agency under

Work Order: 223262 Date: 06/29/2022
Signed: B. Gardner CRS: R81R199Y

AIR TIME AND

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD |
|------|-------------|------|---------------------------|------|--------------------|
| | HRS. | MIN. | HRS. | MIN. | |

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



Thoroughbred Aviation Maintenance, Inc.
FAA CRS# R81R199Y
Airframe

Date: 30/JUN/2022 **WO:** 225117
AC: N356AF **Type:** Diamond DA20-C1 **AC SN:** C0050 **Tach:** **Hobbs:** 3147.6

1. Removed Bendix/King KT-76A ATC Transponder PN 066-1062-00 SN 79613.
2. Installed customer provided Appareo Stratus ESG Transponder with ADS-B OUT Functionality IAW Appareo Systems STC #SA04112CH issued July 7 2016 amended September 22 2017, and Master Document List # 606586-000054 revision 2.6 dated August 20 2019. Components installed include: Appareo Stratus ESG ATC Transponder with ADS-B OUT Functionality PN 153510-000017 SN 083044, Appareo GPS Antenna PN AV-801(-A) SN 200547. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR 91 §91.227.
3. Calculated and updated Weight and Balance form and equipment list.
4. See FAA Form 337 dated 30/JUN/2022 for STC installation details.

END

I certify this aircraft was repaired/serviced/inspected/ utilizing Diamond DA20 Technical Publications and standard practices referenced in the AC43.13-1b

MAINTENANCE RELEASE

The aircraft/article identified was repaired/serviced/inspected in accordance with current FAA regulations and was found airworthy for return to service. "Pertinent" details of the repair/service/inspection are on file at this agency under **Work Order#225117** **Date:** 30/JUN/2022

Signed: *[Signature]* For CRS: R81R199Y



Thoroughbred Aviation Maintenance, Inc.
Airframe

Date: 07/06/2022 **Type:** Diamond DA20-C1 **WO:** 223262
AC: N356AF **AC SN:** C0050 **Hobbs:** 3147.5
AFTT: 3147.5 **Engine TT:** 2419.1 **Eng SMOII:** 1.8

1. Replaced oil pressure transducer and oil pressure gauge kit PN: 22-7930-10-00 SN: 2659. Performed post maintenance runup for leak and ops ck. Leak and ops ck good.
2. All work performed IAW Diamond DA20 AMM.

End

MAINTENANCE RELEASE

The aircraft and/or component identified was repaired in accordance with current FAA regulations and was found airworthy for return to service for the work performed. "Pertinent" details of the repair are on file at this agency under **Work Order: 223262** **Date:** 7/06/2022

Signed: *[Signature]* CRS: R81R199Y

Manufacture: Diamond Aircraft
Model: DA20-C1
S/N: C0050
Reg# N356AF

Tach: 776.6
TTA: 3194.4

Replaced left and right main tires and tubes with Airtrac 500X5 6 ply tires. Replaced left and right brake disks and pads. P/N RA164-24200 Disk, RA66-106 brake lining. Replace seals in right caliper. Bled right brake.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order.

Date: October 4, 2022

Inspector: *[Signature]*
 Scott Wilson 314227

CARRIED FORWARD

Flight-Deck Avionics, LLC' 237 N. 2370 W., Salt Lake City, UT 84116: CRS# F62R677Y Form No. FD-007

Tail #: N356AF Mfg: Diamond Model: DA20-C1 Serial: C0050

This is A Permanent Logbook Entry:

Removed Bendix/King KLX 135A GPS/COM P/N-069-01029-0703, S/N-122410 from radio stack at an arm of -20.5" and a wt. of 4.40 lbs. Removed King KA 92 GPS antenna, P/N-071-01553-0200, S/N-22349 from aft mount behind battery at an arm of 64.0" and a wt. of 0.4 lbs. Removed Sigma tek Attitude Gyro, P/N-23-501-06-16, S/N-T48077J, from instrument panel at an arm of -16.4" and a wt. of 2.0 lbs. Removed Sigma Tek Directional Gyro, P/N-1U-262-001-39, S/N-T64219M, from instrument panel at an arm of -16.4" and a wt. of 2.6 lbs. Removed Rapco Vacuum Pump, P/N-212CW, S/N-163961, from engine accessory case at an arm of -53.8" and a wt. of 2.0 lbs. Removed Vacuum suction gauge, Varga 50001, from instrument panel at an arm of -16.4" and a wt. of 0.3 lbs.

CONTINUED NEXT PAGE: p.1

Flight-Deck Avionics, LLC' 237 N. 2370 W., Salt Lake City, UT 84116: CRS# F62R677Y Form No. FD-007

Tail #: N356AF Mfg: Diamond Model: DA20-C1 * Serial: C0050

This is A Permanent Logbook Entry:

Installed Garmin GNS 530W, P/N-011-01064-40, S/N-78407048 in radio stack at an arm of and -20.5" a wt. of 8.20 lbs. Installation of the Garmin GNS 530W was accomplished in accordance with FAA Form 337 dated 11/18/2022, referencing STC data. Installed Garmin GA 35 WAAS- GPS antenna P/N-013-00235-00, S/N-218722, on aft mount behind battery at an arm of 64.0" and a wt. of 0.40 lbs. Installed Garmin GI-275 ADAHRS (Attitude), P/N-011-04489-10, S/N-5MZ107368 in instrument panel at an arm of -14.4" and a wt. of 2.88 lbs. Installed Garmin GI 275 ADAHRS (HSI), P/N-011-04489-10, S/N-5MZ107260 in instrument panel at an arm of -14.4" and a wt. of 2.88 lbs. Installed Garmin GMU 11 Magnetometer, P/N-011-04349-01, S/N-56J105872, in tail section at an arm of 79.0" and a wt. of 0.35 lbs. Installed (1) Garmin GSB 15, P/N-011-04937-00, S/N-63M064443 Dual USB module under right side instrument panel at an arm of -14.0" and a wt. of 0.18 lbs. Installation of the Garmin GI 275 ADAHRS Attitude & HSI with GMU 11, and GSB 15 USB was accomplished in accordance with FAA Form 337 dated 11/18/2022, referencing STC data.

CONTINUED NEXT PAGE: p.2

Flight-Deck Avionics, LLC' 237 N. 2370 W., Salt Lake City, UT 84116: CRS# F62R677Y Form No. FD-007

Tail #: N356AF Mfg: Diamond Model: DA20-C1 Serial: C0050

This is A Permanent Logbook Entry:

Removed defective Airpath Wet compass C2300. Installed replacement Wet compass, Airpath C2300L4, S/N-24297. Performed Compass swing on new compass. Compass swing/alignment accomplished with reference to 14CFR Parts 23.1327, 23.1547 and AC43.13-1B Chapter 12, sec. 3. Ground tests check good. No defects noted.

Repaired Pitot-static system leaks and calibrated new GI 275's AirData systems. Performed tests and inspections in accordance with 14 CFR Part 43, Appendix E & F, to comply with 14 CFR Part 91.411 & 91.413. Ground tests check good.

The above identified aircraft has been maintained and inspected in accordance with current CFRs and is approved for return to service. Details are on file at this station under work order no. 13715.

Signed: James O Goodrich Digitally signed by James O Goodrich Date: 2022.11.18 11:02:54 -0700 Date: 11/18/2022

(FAA CRS# F62R677Y)

Flight-Deck Avionics, LLC' 237 N. 2370 W., Salt Lake City, UT 84116: CRS# F62R677Y Form No. FD-009

Tail #: N356AF Mfg: Diamond Model: DA20-C1 Serial: C0050

This is A Permanent Logbook Entry:

Performed tests and inspections in accordance with 14 CFR 43: Appendix E to comply with 14 CFR 91.411 Appendix F to comply with 14 CFR 91.413

| UNIT | MFG | MODEL | PART # | SERIAL # | TEST ALTITUDE / DATA CROSS SIGNATURE |
|-----------------|---------|---------------|---------------|-----------|--------------------------------------|
| Altimeter 1 | Garmin | GI 275 ADAHRS | 011-04489-10 | 5MZ107368 | 20,000' |
| Altimeter 2 | Garmin | GI 275 ADAHRS | 011-04489-10 | 5MZ107260 | 20,000' |
| Altimeter Stby. | United | 5934PD-3 | 5934PD-3 | 422016 | 20,000' |
| Encoder | TCl | 6SD120 | SSD120-20 | S17078 | 20,000' |
| Transponder | Appareo | Stratus ESG | 158510-000017 | 083044 | 20,000' |

The above identified aircraft has been maintained and inspected in accordance with current CFRs and is approved for return to service. Details are on file at this station under work order no. 13715.

Signed: James O Goodrich Digitally signed by James O Goodrich Date: 2022.11.17 10:02:51 -0700 Date: 11/18/2022

(FAA CRS# F62R677Y) Recertification Due: November 2024

LICENCE NUMBER

ENTRIES. DRAW A DIAGRAM

ENTRIES. DRAW A DIAGRAM

ENTRIES. DRAW A DIAGRAM

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 | | | | | |
| 12-15-2022 | Tach | 817.3 | Hobbs | 3275.9 | Removed and Replaced outer Flap bellcrank bolts and replaced with new AN4-15 Bolts. Performed aircraft 100hr inspection IAW FAR 43 appendix and current FAR's. I certify this aircraft to be in airworthy condition and is approved for return to service. AJP 262115 |
| 02-16-2023 | Tach | 844.7 | Hobbs | 3319.1 | N356AF S/N C0050 TTA# 3262.5 Removed & Replaced starting vibrator assy. Installed known good unit TCM P/N 10-400523-10 S/N JOZE IAW Diamond DA-20 AMM. OPS CK. O.K. Michael J. Nichols AP3153525 T. Wick / J. Wick |
| Feb 17, 2023 | | 844.7 | | | Replaced Ignition switch P/NA-510-2 AD 93-05-06 is applicable to this switch. AD Next due at tach 2844.7 Scott Wick 3142227AJP. |

| | | |
|--|--|--|
| Model: Diamond DA20-C1 S/N: C0050 Reg# N356AF | | Tach: 876.2 TTA# Hobbs: TTA#: 2359.0 SW |
| C/W Annual/100 hr. inspection IAW Diamond DA20-C1 Maintenance Manual & Single Engine Inspection Guide. C/W FAR 91.207(d) 1-4 ELT ops check requirements. No defects noted ELT inspection next due June 2024. ELT battery due @ September 2023. Replaced Induction Air Filter. Removed, Cleaned and service AC battery. Cleaned acid spill from battery compartment and under carpet in front of battery compartment. Cleaned and glued cowling seal left side. Cleaned and re-glued Velcro that holds seat backs. Removed nose wheel assembly, cleaned and greased all parts. Reinstalled with new AN960 washers. Tightened to 20 lbs. swivel pull. installed new cotter pin. All AD's are current to 6-16-23. I certify that this aircraft has been inspected in accordance with a 100 hr. inspection and determined airworthy this date. | | |
| The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order. | | |
| Date: June 16, 2023 | | Inspector: <u>Scott Wick</u> Scott Wilson 31422271A |

| | | |
|---|--|--|
| Model: Diamond DA20-C1 S/N: C0050 Reg# N356AF | | Tach: 877.5 |
| Installed new Throttle cable P/N A-1550-0550. Rigged cable and adjusted idle to 700 RPM. Ops check was good. | | |
| The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order. | | |
| Date: July 28, 2023 | | Inspector: <u>Scott Wick</u> Scott Wilson 31422271A |

ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE
NUMBER

Model: Diamond DA20-C1
S/N: C0050
Reg# N356AF

Tach: 883.3
Hobbs:
ITAF: 2366.1

Replaced ELT Battery P/N GS-52. C/W FAR 91.207(d) 1-4 ELT ops check requirements. No defects noted ELT inspection next due at next annual or 12 months. ELT battery due @ February 2026.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order.

Date: August 30, 2023

Inspector: Scott Wilson
Scott Wilson 31422271A

05 OCT 2023 TACH 885.6 HOBBS 3380.0

REMOVED AND REPLACED ^{LEFT} RIGHT CANOPY SPRING P/N: 20-5600-09-02. OPERATIONAL CHECKS OK. ~~ATP 180398~~ ATP 180398

05 DEC 2023 TACH 916.3 HOBBS 3924.8

REMOVED AND REPLACED RIGHT CANOPY SPRING P/N 20-5600-09-02 OPERATIONAL CHECKS OK. ~~ATP 1803598~~ ATP 1803598

Model: Diamond DA20-C1
S/N: C0050
Reg# N356AF

Tach: 965.9
Hobbs:

Replaced right main tire and tube with 500x5 6ply tire and 500x5 leak guard classic tube. Put tire pressure to 34 psi.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order.

Date: February 1, 2024

Inspector: Scott Wilson
Scott Wilson 31422271A

Model: Diamond DA20-C1
S/N: C0050
Reg# N356AF

Tach: 967.7
TTAF: 2450.5

C/W 100 hr. inspection IAW Diamond DA20-C1 Maintenance Manual & Single Engine Inspection Guide. C/W FAR 91.207(d) 1-4 ELT ops check requirements. No defects noted ELT inspection next due June 2024. ELT battery due @ February 2026. Replaced left main tire and tube. P/N Airhawk 500x5 6 ply. 500x5 leak guard tube, Replaced left and right brake linings. P/N 66-106. AD 93-05-06 ACS ignition switch next due tach 2844.7. 1000 hr inspection is due at tach 1518.7. All AD's are current to 2-11-2024. I certify that this aircraft has been inspected in accordance with a 100 hr. inspection and determined airworthy this date.

The aircraft, airframe, aircraft engine, propeller or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details of the repair(s) are on file at this Facility under the above referenced Work Order.

Date: February 11, 2024

Inspector: Scott Wilson
Scott Wilson 31422271A

AIR TIME AND

| DATE | DAILY TOTAL | | TOTAL AIR TIME SINCE MFG. | | ENGINEERING RECORD |
|------|-------------|------|---------------------------|------|--------------------|
| | HRS. | MIN. | HRS. | MIN. | |

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

| | | | |
|-----------------------------|---|---------------|-----------------|
| 'Flight-Deck Avionics, LLC' | 237 N. 2370 W., Salt Lake City, UT 84116: | CRS# F62R677Y | Form No. FD-007 |
|-----------------------------|---|---------------|-----------------|

| | | | |
|----------------|--------------|----------------|---------------|
| Tail #: N356AF | Mfg: Diamond | Model: DA20-C1 | Serial: C0050 |
|----------------|--------------|----------------|---------------|

This Is A Permanent Logbook Entry:

In accordance with the Garmin GI 275 Installation Manual, Garmin Document Number: 190-02246-10, Revision 18, Dated 02/01/2024, verified the configuration settings on both GI 275 units (ADI and HSI/ADI STBY). Found and corrected inappropriate interface settings on the HSI unit. Verified that heading information was correctly displayed on the HSI. Ground checks test good, no defects noted.

The above identified aircraft has been maintained and inspected in accordance with current CFRs and is approved for return to service. Details are on file at this station under work order no. 16168.

Signed: Jamison Richey Date: 03/18/2024

Digitally signed by Jamison Richey
DN: cn=Jamison Richey, o=Flight-Deck Avionics, LLC, ou=CRS:
F62R677Y, email=jr@flightdeckavionics.com, ou=US
Date: 2024.03.18 16:30:23 -0700

(FAA CRS# F62R677Y)

| | | | |
|--|--------------------|--------------|---------------------------|
| Airframe: Diamond | mn: DA20-C1; | sn: C0050; | TTAF: 2549.5 |
| Engine: TCM: | mn: IO-240-B3B: | sn: 1006616 | EngTT: 2754.3; TSO: 339.0 |
| Propeller: MT Propeller: | mn: MT175R-150-2Ca | sn: 18018 | PropTT: 462.3; TSO: NA |
| Propeller: Sensenich: | mn: 74DM55-5-0-54: | sn: A44543 ; | PropTT: unkn; TSO: 598.6 |
| Recurring A.D.s (see A.D. Listing for complete history) | | | |
| AD93-05-06, eff. date: 4/29/93. Ign. Sw. Insp. (Ea. 2000 hr). Previously C/W by inspection & parts replacement | | | |
| 5/1/17 at TTAF 2001.5. Next due ay TTAF 4001.5. | | | |

Documents check: A/W Cert. in A/C; Reg. Cert. in A/C; Reg. Exp. Date: 2029; Tach Time: 1066.7 *MLG*
 TXP/Altim/Static expire: Nov, 2024
 Tested ELT test IAW 14CFR Part 91.207(d) (EBC Corp, m/n: 502). ELT Battery exiration date: Feb. 2026 (battery p/n: GS-52).
 Installed new 9v radio alkaline radio battery and installed cover. Ops tested, no findings.
 Lubed aircraft: control surface bearings, cable pulleys.
 Jacked aircraft, removed MLG wheels; cleaned, insp. & lubed MLG bearings w/Mobil SHC-100 grease. Installed new cotter pins.
 Installed Odyssey Battery, p/n: ODS-AGM28L on batter shelf (bulkhead at aft of cargo compartment, I.A.W. DAI S.B.
 DAC1-24-05 (O) "Installation of the BC100-1 or the ODS-AGM28L Battery on the Battery Shelf" Rev 2, Mar-30-23.
 Removed cover at aft of battery box & moved top battery hold down bracket & riveted nut plates up 1/2".
 Installed new AN5-40A bolt thought battery hold down strap and secured battery.
 Mandator rudder cable 10 year replacement due now; as per DAI M.M, ch. 4 Airworthiness Limitaions, Time Life Parts.
 Removed old cables. Assembled one end of each of 6 cables on bench, all 6 were final assembled to length in A/C, with rudder mount & pedals locked neutral. Installed heavy shrink tubing over cut end cable wires at each swedge.
 Parts: Cable: SF12579D, (Aircraft Spruce #05-04300; 1/8", 7x19, S.S.); Cable thimbles: AN100-4; Zinc plated copper swedge sleeves: MS51844-24 (A/C S.S. #05-03295).
 Set aft cable tensions to 33 ft/lbs and installed 4 new turnbuckle locking clips, p/n: MS21256-1
 Cable replacement next due at ~~TTAF 2549.5 hrs~~ or by 4/28/2034. *OR BY: 3549.5 *J.S.**
 Found the rudder cable belcrank below tank Installed backwards. R&R belcrank with "V" side aft & flat side fwd. (See IPC).
 R&R rudder cable belcrank with "V" side aft & flat side fwd. Repositioned aft cables from O/B to I/B holes on rudder belcrank & adjusted turnbuckles of L&R aft cables to compensate for length change.
 Drained fuel tank & remove fuel tank; installed fuel tank & addd the 14 gallons drained. Leak checked, no findings.
 R&R & disassemble pilot's L/H brake master cylinder. Inspected cylinder bore & shaft surface condition.
 Installed new O-ring seals, MS28775-012 & -112 at Inner & outer gland grooves for shaft seal & gland to cylinder bore seal. Reassembled & reinstalled master cylinder & bleed L/H brake system.
 Owner fabricated & installed new plastic canopy lever cover modelled on the broken original parts.
 I inspected the installation of the canopy lever guide and found the parts & installation acceptable.
 Owner replaced plastic window rail screws as needed. I inspected the installation & found a found acceptable.
 I certify that this aircraft has been inspected I.A.W. an annual inspection with the scope & detail of 14 CFR Part 43 Appendix.D & is in airworthy condition.
 Michael Tevik A&P28284651A *Michael Tevik 4/28/2024*

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE NUMBER

| Flight-Deck Avionics, LLC | | 237 N. 2370 W., Salt Lake City, UT 84116 | | CRS# F62R67TY | Form No. FD-009 | |
|------------------------------------|--------------|---|-------------------------------------|---|-------------------------------------|---|
| Tail #: N356AF | Mfg: Diamond | Model: DA20-C1 | | Serial: C0050 | | |
| This is A Permanent Logbook Entry: | | Performed tests and inspections in accordance with 14 CFR 43: | <input checked="" type="checkbox"/> | Appendix E to comply with 14 CFR 91.411 | <input checked="" type="checkbox"/> | Appendix F to comply with 14 CFR 91.413 |
| UNIT | MFG | MODEL | PART # | SERIAL # | TEST ALTITUDE / DATA CORRESPONDENCE | |
| Altimeter 1 | Garmin | GI 275 ADAHRS | 011-04489-10 | 5MZ107388 | 20,000' | |
| Altimeter 2 | Garmin | GI 275 ADAHRS | 011-04489-10 | 5MZ107260 | 20,000' | |
| Altimeter Stry. | United | 5934PD-3 | 5934PD-3 | 422016 | 20,000' | |
| Encoder | TCI | SSD120 | SSD120-20 | S17078 | 20,000' | |
| Transponder | Garmin | GTX 345 | 011-03302-03 | 7KV002532 | 20,000' | |

The above identified aircraft has been maintained and inspected in accordance with current CFRs and is approved for return to service. Details are on file at this station under work order no. 16297.

Signed: James O Goodrich Digitally signed by James O Goodrich
Date: 2024.05.21 15:45:04 -0600 Date: 05/21/2024

(FAA CRS# F62R67TY) Recertification Due: May 2026

| | | | | | |
|--|--------------|---|--|-------------------------|-----------------|
| Flight-Deck Avionics, LLC | | 237 N. 2370 W., Salt Lake City, UT 84116 | | CRS# F62R67TY | Form No. FD-007 |
| Tail #: N356AF | Mfg: Diamond | Model: DA20-C1 | | Serial: C0050 | |
| This is A Permanent Logbook Entry: | | | | | |
| Removed Appareo Stratus ESG Transponder P/N-158510-000017, S/N-083044 from bottom of radio stack at an arm of -20.5" and a wt. of 3.29 lbs. | | | | | |
| Removed AV-801A GPS antenna from under glareshield S/N-200547, Wt. 0.3 lbs. | | | | | |
| Installed Garmin GTX 345 Transponder, P/N-011-03302-02, S/N-7KV002532 at bottom of radio stack at an arm of -20.5" and wt. of 3.12 lbs. | | | | | |
| Installation of the Garmin GTX 345 was accomplished in accordance with FAA Form 337 dated 5/21/2024. | | | | | |
| The above identified aircraft has been maintained and inspected in accordance with current CFRs and is approved for return to service. Details are on file at this station under work order no. 16297. | | | | | |
| Signed: <u>James O Goodrich</u> | | <small>Digitally signed by James O Goodrich Date: 2024.05.21 15:48:01 -0600</small> | | Date: <u>05/21/2024</u> | |
| (FAA CRS# F62R67TY) | | | | | |

6/6/2024 Airborne VOR check

Nav1: PVU R-230 +/- 0°, 5.0 DME

Nav2: PVU R-230 +/- 0°, 5.0 DME

Mark Oveson (owner)
PPC 4923045

6-16-2024 trim indicator light flickering.

found desoldered pin, soldered pin back in place.

Ops checks good.

Brandon Behrendt
Brandon Behrendt
A6P 3241087IA

7/2/2024 right side green position light not working. Replaced bulb and tested, works as expected. Tach time 1161.1

Mark Oveson (owner)
Mark Oveson
PPC 4923045

TTAF

2646.8

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 | | | | | |

7/13/2024

Reg. #: N356AF

Tach: 1182.5 (Hobbs: 3781.8)

Airframe: Diamond mn: DA20-C1; sn: C0050; TTAF: 2665.3

Engine: TCM; mn: IO-240-B3B; sn: 1006616 EngTT: 2870.1; TSO: 454.8

Propeller: MT Propeller; mn: MT175R-150-2Ca sn: 18018 PropTT: 578.1; TSO: NA

Installed the Following parts I.A.W. DAI MM, Ch 32.

22-3220-05-06_1 Installed new Rubber dampers (elastomerics) on NLG shock strut. (Note: no longer life limited to 900 hrs).

22-3220-01-05 Flange bushings in NLG fork (x2).

PAF25115P10 Flange bushing, Installed in belly T-panel, on the L/H side.

20-3220-00-08 Bushing, brass, NLG leg to shock attachment. Secured shock strut retaining pin covers with BSPQ-43 rivets (4).

Installed NLG strut fairing with BSPQ-43 rivets (4).

R&R NLG strut leg to install new bushings above. Installed sericable L/H leg mount bushing (short) meeting new condition wear.

Installed new NLG tire, Goodyear 5.00x 4.

Lubed NLG strut bushings, shock strut mount bushings & fork bushings with Aeroshell 22 grease.

Installed 2nd rubber bumper, 315, 633, on canopy center hinge bracket next to canopy end, I.A.W. DAI, IPC.

Michael Tevik A&P28284651A

Michael Tevik

8/3/24

Tach 1190.9
HOBBS 3792.5

• Installed large capacity oil cooler (10599T)

I.A.W. DAI SB # DR C1-79-01 REV. 6,

DATED: 11/9/1999, PART ONE, RUN UP/LEAK CHECK PERFORMED. NO FINDINGS.

• Replaced inoperative oil pres. sensing unit w/ D.A.I. P/N 22-7930-00-04. Gauge indicates 45 PSI @ 2000 RPM, w/oil Temp @ 150°F indicated.

• Replaced missing cam lug fastener on top cowling.

Michael Tevik A&P 28284651A

CARRIED FORWARD

UNITED INSTRUMENTS, INC.

SCALE CORRECTIONS

| Alt. Reads | Add Algebraically | |
|------------|-------------------|--------------|
| | Room Temp. °C | Low Temp. °C |
| -1000 | 1100 | |
| 0 | 1100 | |
| 500 | 1100 | |
| 1000 | 1100 | |
| 1500 | 1100 | |
| 2000 | 1100 | |
| 3000 | 1100 | |
| 4000 | 1100 | |
| 6000 | 1100 | |
| 8000 | 1100 | |
| 10000 | 1100 | |
| 12000 | 1100 | |
| 14000 | 1100 | |
| 16000 | 1100 | |
| 18000 | 1100 | |
| 20000 | 1100 | |
| 22000 | | |

ALTIMETER SER. NO. 422016

| Alt. Reads | Add Algebraically | |
|------------|-------------------|--------------|
| | Room Temp. °C | Low Temp. °C |
| 25000 | | |
| 30000 | | |
| 35000 | | |
| 40000 | | |
| 45000 | | |
| 50000 | | |
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DATE: 10-20-01

TESTED

BY: SM

INSPECTED

BY: [Signature]

Form No. 0017

MAINTENANCE RELEASE

NOMENCLATURE 3" Alt. DG JA 500

SERIAL NO 748775 PART/MODEL NO. 5000-36

OVERHAUL REPAIR FUNC. TEST

The Aircraft Appliance identified above was overhauled, repaired, or func. tested as per block in accordance with current Federal Aviation Administration Regulations and is approved for return to service. Details of this component are on file at this agency under work order

no. 33196

Date 2-7-03

Authorized Signature [Signature]

MAINTENANCE RELEASE

NOMENCLATURE 3" DG JA 500

SERIAL NO 5622 PART/MODEL NO. REPAIR-5

OVERHAUL REPAIR FUNC. TEST

The Aircraft Appliance identified above was overhauled, repaired, or func. tested as per block in accordance with current Federal Aviation Administration Regulations and is approved for return to service. Details of this component are on file at this agency under work order

no. 32822

Date 8-8-02

Authorized Signature [Signature]