

Airframe Date: 12/10/2025 Tail #: N249DS

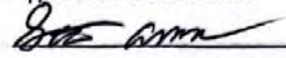
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2899.1 AFTT: 2899.1

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Installed new muffler brace (P/N:D41-7806-20-01). Installed new ASA CO2 detector. Installed new left (P/N: 20-5210-03-07) and right (P/N: 20-5210-04-07) side step pad grip tape. Installed new bushings (P/N:BB4526DU-B) in the nose fork. Installed new break liners(P/N:RA066-14100) on pilot and co-pilot sides. Installed nut plate (P/N: LN29985-M6) on the rear portion of the back seat. Installed new C/J fuel pump (P/N:5100-00-9CJ-C)(S/N:MC00212). Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects were found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

Airframe Date: 11/5/2025 Tail #: N249DS

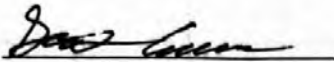
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2886.0 AFTT: 2886.0

Work Performed: Installed overhauled horizon indicator P/N:504-0111-941, Model Number: 1100-28LK(-2F). S/N:504011194125009. From midcontinent. Adjusted weight and balance.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

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Airframe Date: 12/10/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2899.1 AFTT: 2899.1

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Airframe Date: 12/16/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2900.5 AFTT: 2900.5

Work Performed: Installed new Starter assembly P/N: 149-24LS S/N: H-Z091558 with new hardware.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

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CARRIED FORWARD

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012


Airframe Date: 8/12/2025 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2806.8 ATT: 2806.8

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Replaced left main tire, brake rotor, and brake pads. Inspected and lubricated all flight controls. Complied with GDL 82 ICA's. Differential compression test performed results as follows: #1: 78/80 #2: 72/80 #3: 78/80 #4: 77/80. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 2915.8.

Complied with the following ICAs:
Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171, no defects
Essential bus inspection Next due at AFTT: 2970.1
Electrical Bonding Inspection next due at AFTT: 2970.1
Emergency battery. Next due by April 2026

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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: 8/12/2025 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2806.8 Total Time: 2806.8

I certify this aircraft has been serviced and inspected I/R/T an **Annual Inspection** I/R/T Diamond DA40 Maintenance Manual and FAR 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: 8/12/2025 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2806.8

Work Performed: Inspected and tested the ACK Technologies E-01 ELT S/N 042749 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 date of **March 2028**. Remote Battery due 4/2027

In reference to the work listed above, this ELT 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: 9/26/2025 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2860.6 AFTT: 2860.6

Work Performed: removed horizon reference indicator for overhaul. Installed blank off plate in its place and placarded for Day VFR only. Weight and balance has been adjusted.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

AIR TIME AND

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/30/2025 Tail #: N249DS


A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2728.3 AFTT: 2728.3

Work Performed: Replaced installed new strobe tube assembly (P/N:02-0250276-00) and a new rear facing directional light (P/N: 346428070-64) on the pilots side.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 6/26/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2760.8 AFTT: 2760.8

Work Performed: Installed new brake liners (P/N: 066-14100) on Co-pilot side adjusted and re-torqued hardware for throw on the canopy handle.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 7/2/2025 Tail #: N249DS

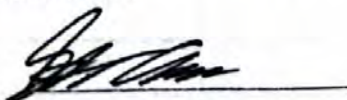
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2767.0 AFTT: 2767.0

Work Performed: Replaced Fuel pump with CJ Aviation Fuel pump P/N:5100-00-9CJ Lot#:MC00137.

Performed operational inspection leak check and run up of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 7/7/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2775.8 AFTT: 2775.8

Work Performed: Installed new map light bulbs in all three map lights. Removed the left side tire and rotated the tire on the wheel then reinstalled wheel and tire on aircraft.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/23/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2707.3 AFTT: 2707.3

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Tightened back of co-pilot air vent. Installed new muffler brace (P/N:D41-7806-20-01). Replaced RPM sensor on right mag with serviceable P/N: 0406-003. Replace exhaust clamp on cylinder #1 down pipes.in stalled new ASA CO2 detector. Repaired hole for camlock anchor point for winterization kit in front right of cowling. Replaced rear passenger door gas strut with new (P/N: DA1-9052-00-11). Installed new bleeder valve on pilot side brake caliper. Replaced all 4 grease seal rings in pilot side wheel (P/N: 153-0090).installed new Curtis drain valve (P/N:CCA-1550) in bottom of gascolator. Replaced broken bonding straps with new. Removed peeling fire paint and applied new fire paint. Replaced seat tubing for heat exchanger. Installed new nose gear damper (P/N: D41-3223-20-00-1). Complied with AD2024-19-8 by installing new NLG Strut P/ND41-3223-10-00-2 with all new hardware. Installed new Battery (P/N: RG24-15M). Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects were found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/23/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2707.3 AETT: 2707.3

Work Performed: completed inspection of essential bus. No faults or defects were found. Next due at 3707.3 TT.

Completed Bonding inspection. No faults or defects were found. Next due at 3707.3 TT.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/13/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2723.4 AFTT: 2723.4

Work Performed: Replaced interior Bowden cable on parking brake.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 9/20/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2623.0 AFTT: 2623.0

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

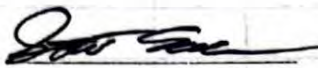
Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 9/20/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2623.0 AFTT: 2623.0

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Airframe Date: 11/19/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2689.3 AFTT: 2689.3

Work Performed: Installed new nose wheel tire with 5.00-5 6 ply tire from specialty tires of America. Installed new 5.00-5 nose wheel tire tube from aero classic dresser tire & rubber co. (P/N: GL-5067B). Installed new 6.00-6/6/120 (P/N:072-314-0) on the right side main wheel with a new 6.00-6 tire tube (P/N:GL-6020B) from aero classic dresser tire & rubber co.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305



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

Date: 02/13/2025
Aircraft: N249DS
Type: DA40 SN: 40.249
Hobbs: 3873.7
WO: A25-0048

1

Airframe Entries

I certify that this altimeter system, static system test required by 14 CFR 91.411 have been performed and comply with 14 CFR part 43 Appendix E.

Altimeter was tested to 20,000Ft.

- Altitude reporting system test to 20,000Ft.

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: Garmin GTX327

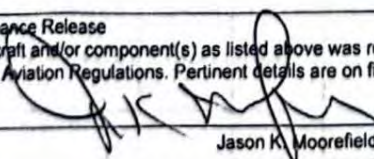
SN: 83711727

Mode: A/C/S

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. Moorefield CRS# BGSR439C

CARRIED FORWARD

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 7/1/2024 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2526.4 Total Time: 2526.4

I certify this aircraft has been serviced and inspected I/R/T an Annual Inspection I/R/T Diamond DA40 Maintenance Manual and FAR 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: 7/1/2024 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2526.4

Work Performed: Inspected and tested the ACK Technologies E-01 ELT S/N 042749 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 date of March 2028. Remote Battery due 4/2027

In reference to the work listed above, this ELT 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: 8/8/2024 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2574.9 AFTT: 2574.9

Work Performed: Replaced pilot side tire with Michelin 6 tire(P/N072-314-0). Replaced pilot side tire tube with aero tire tube size 6.00-6 (P/N: GL-6020B). Removed compass P/N:C2400L4P-24 S/N:AS-28. Installed rebuilt compass P/N:C2400L4P-24 S/N:AS-42.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 9/20/2024 Tail #: N249DS
A/C Make/Model: Diamond DA40
A/C S/N: 40.249 Tach Time: 2623.0 AFTT: 2623.0

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 9301936	
4. Organization Name and Address: Textron Aviation Inc. (PC4) Textron Aviation Inc. 1 Cessna Blvd, Wichita, KS 67215				5. Work Order/Contract/Invoice Number: 5842196		
6. Item: 200	7. Description: PLATE PRESSURE	8. Part Number: 063-00500	9. Quantity: 1	10. Serial Number: N/A	11. Status/Work: New	
12. Remarks: AUTHORIZED RELEASE DOCUMENT PO#: 1278454						
13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			13b. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature: 		13c. Approval Authorization No.: PC4	14b. Authorized Signature	14c. Approval Certificate No.:		
13d. Name (Typed or Printed): CHRIS DENTON		13e. Date (dd/mm/yyyy): 08/Jul/2024	14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):		
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.						
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.						
Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

AIR TIME AND

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/5/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2430.9 AFTT: 2430.9

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced alternator brush block (ALU-3045BS). Replaced the 28 Batteries in the emergency backup battery with Duracell batteries date coded MAR2035. Reinstalled rear passenger map light. Replaced carbon monoxide detector (ASA-CO-D), replaced Garmin 430 with (P/N:011-00280-10). Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects were found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/5/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2430.9 AFTT: 2430.9

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 6/12/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2506.1 AFTT: 2506.1

Work Performed: Replaced installed serviceable strobe power supply on the co-pilot side (P/N:01-0770062-05)

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 7/1/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2526.4 ATT: 2526.4

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Complied with GDL 82 ICA's. Differential compression test performed results as follows: #1: 79/80 #2: 79/80 #3: 78/80 #4: 78/80. Replaced both main brake torque plates. Replaced right side caliper slide pins and brake pads. Replaced right main tube. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 2636.4. Complied with AD 2009-10-04 Nose landing gear leg. Inspection performed per Diamond SB No MSB40-04/3 next due ATT 2726.4 or 12 months whichever comes later.

Complied with the following ICAs:

Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171, no defects
Essential bus inspection Next due at AFTT: 2970.1
Electrical Bonding Inspection next due at AFTT: 2970.1
Emergency battery. Next due by April 2026

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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 3170695 LA

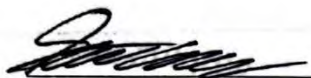
Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 12/26/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2336.0 AFTT: 2336.0

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 1/10/2024 Tail #: N249DS

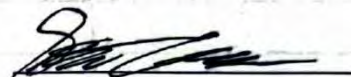
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2344.5 AFTT: 2344.5

Work Performed: Replaced landing light with 28 Volt Whelen P/N: 01-0770346-1.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 2/9/2024 Tail #: N249DS

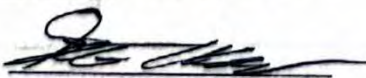
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2379.6 AFTT: 2379.6

Work Performed: fixed cosmetic damage and touched up paint right wing tip.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 2/22/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2385.9 AFTT: 2385.9

Work Performed: Replaced tire tube (P/N: GL-6020B) on Pilot side main tire.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 11/3/2023 Tail #: N249DS

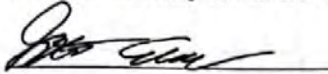
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2264.3 AFTT: 2264.3

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced pilot side main tire with retreaded tire from Wilkerson Company Inc.(W/O: 51276738, P/N:072-34-0, S/N:4296S00030). Replaced pilot side tire tube with new goodyear G15/6.00-6 tire tube. Replaced co-pilot side main tire with retreaded tire from Wilkerson Company Inc.(W/O: 51276741, P/N:071-317-0, S/N:2355S00057). Replaced co-pilot side tire tube with new goodyear G15/6.00-6 tire tube. Installed new Cleveland break liners on pilot and co-pilot sides (P/N 066-14100). Installed new Concord battery (P/N:RG24-15M, W/O:38938-02 Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 11/3/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2264.3 AFTT: 2264.3

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 11/21/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2301.8 AFTT: 2301.8

Work Performed: Replaced dimmer switch control box with serviceable unit.(P/N: APVL328-8-3-L-18QF)

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 12/26/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 2336.0 AFTT: 2336.0

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced Flaps up indicator bulb. Replaced 1/4 turn fastener locking plate on lower cowl to the right of the spout. Installed new hardware on the muffler mounting bracket. Replaced the bushing on the pilots rudder pedals slides. Replaced the adjustment cable assembly on the pilot side rudder Pedals. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

CARRIED FORWARD

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 1/20/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1928.7 AFTT: 1928.7

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced lower exhaust clamp on Cylinder number 3 down pipe. Replaced nose wheel with new AirTrack 5.00-5 tire. Rebuilt left pilot side master cylinder. Rebuild right Co-pilot master cylinder. Bleed pilot and copilot brake lines. Complied with Instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

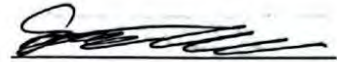
Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 1/20/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1928.7 AFTT: 1928.7

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 2/24/2023 Tail #: N249DS

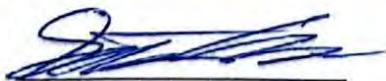
A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1970.1 AFTT: 1970.1

Work Performed: Performed bonding check and supplied the Owner/Operator with list of discrepancies. Performed Essential Bus Inspection.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 3/1/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1973.3 AFTT: 1973.3

Work Performed: Replaced Fuel pressor sensor with P/N 3010017 S/N 99719.

Performed operational inspection leak check and run up of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 8/15/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1741.7 AFTT: 1741.7

Work Performed: Replaced nose wheel with a retreaded 5 00-5 tire from Aviation tires and treads LLC. S/N AFD40705. Replaced Nose wheel tire tube with Aero Classic tire tube size 5 00-5

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Airframe Date: 10/21/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1830.1 AFTT: 1830.1

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Installed new Cleveland break links on left side main. Replaced both exhaust clamps on Cylinder number 1 down pipe. Installed overhauled Bendix/king HIS KJ-525A P/N 066-3046-07 S/N: U94586 from Southeast Aerospace, Inc. W/O #177639; replaced 3" hose for intake and cabin heat. Replaced 1" air hose for battery cooling and alternator cooling. Reglued pilot pop window hinge. Complied with instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 8/10/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1830.1 Total Time: 1830.1

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

AVIATION TIRES & TREADS LLC
General Aviation Tires

348 Williams Point Blvd. • Cocoa, FL 32927 • (321) 433-4120

TIRE SIZE 600-6
 BRAND NAME Michelin
 PLY RATING 6
 SERIAL NUMBER 0074700086
 TSO NUMBER 602
 RETREAD NUMBER 19/30
 TREAD DEPTH Pre/0
 TYPE TREAD Pre/0
 WORK PERFORMED Retreaded per AC 43.13-18 and the Process Specification Manual #1 as revised of Aviation Tires & Tread LLC
 MOLD NUMBER 11
 PLANT CODE AT&T
 MONTH 10 YEAR 21
 CUSTOMER Kane Aviation
 ADDRESS Roanoke VA
 REPAIRMAN [Signature]
 INSPECTED BY [Signature]
 WORK ORDER NO. 119183

**Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012**

Airframe Date: 12/14/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1897.7 AFTT: 1897.7

Work Performed: replaced right side main tire with Retreaded 6.00-6 6 Ply Michelin tire from Aviation Tires & Treads LLC. From W/O #: 119183. S/N:0074T0086.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 6/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1634.8 Total Time: 1634.8

I certify this aircraft has been serviced and inspected I/R/T an Annual Inspection I/R/T Diamond DA40 Maintenance Manual and FAR 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: 6/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1634.8

Work Performed: Inspected and tested the ACK Technologies E-01 ELT S/N 042749 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 date of March 2028

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


William Painter A&P 31706951A

MAINTENANCE RELEASE FORM

AVIATION TIRES & TREADS LLC
348 Williams Point Blvd. Cocoa, FL 32927
(321) 433-4120

AIRCRAFT TIRE

COMPONENT

Michelia

MANUFACTURER'S NAME

Tire Size *600-6*

Ply Rating *6*

Serial No. *1174S00721*

The Aircraft component identified above was repaired and inspected in accordance with current FAA Regulations and is approved for return to service.

Pertinent details of the repair are on file at this Repair Station under Work Order

No. *119184*

Date *10-8-21*

Signed *Wally*

el bearings.
halves. Replace
inspected and
filter. Installed
rust clamp on
tire 6.00-6 S/N
instructions listed in
Maintenance Manual

nd systems. No

eries
listed above,
approved for


Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 8/10/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1733.5 Total Time: 1733.5

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1555.0 AFTT: 1555.0

Work Performed: Inspected and cleaned sparkplugs. Installed new Slick ignition harness P/N M4004 and Checked mag timing.

Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/24/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1596.2 AFTT: 1596.2

Work Performed: installed a new pilot's side step. P/N: DA4-5300-61-00.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 5/23/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1596.2 AFTT: 1596.2

Work Performed: replaced alternator with new P/N: ALU-6521LS. S/N: H-W030064. W/O M348340. From Hartzell engine technologies.

Run up and leak check performed with no defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 6/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1634.8 ATT: 1634.8

Work Performed: Replaced right main tire, tube, and brake rotor. Replaced pilot side rudder adjustment cable and right return spring. Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Emergency backup batteries (28 AA) Next Due 4/2024. Complied with ICA instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171, no defects. Complied with GDL 82 ICA's. Differential compression test performed results as follows: #1: 72/80 #2: 76/80 #3: 74/80 #4: 78/80. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 1744.8. Complied with AD 2009-10-04 Nose landing gear leg. Inspection performed per Diamond SB No MSB40-04/3 next due ATT 1834.8 or 12 months whichever comes later. Complied with AD 07-11-21 Fuel Selector universal joint by inspection under section F (4) Next due ATT 2634.8.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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 3170695 IA

CARRIED FORWARD

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 3/24/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 **Tach Time:** 1502.4 **AFTT:** 1502.4

Work Performed: Replaced backup battery with 28 AA 1.5 volt batteries with date code March 2033. **Next due:** 4/1/2024

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/20/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 **Tach Time:** 1542.0 **AFTT:** 1542.0

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Adjusted parking brake cable. Replaced exhaust clamp on number 4 down pipe. Replaced Exhaust shroud hanger bracket P/N D41-7806-20-01. Complied with instructions listed in Concorde RG Series Main Aircraft Battery Component Maintenance Manual No. 5-0171. No leaks or defects found at this time.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/20/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 **Tach Time:** 1542.0 **Total Time:** 1542.0

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 4/27/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 **Tach Time:** 1553.0 **AFTT:** 1553.0

Work Performed: Replaced fuel Prob. In the right tank with serviceable probe from Diamond DA40, N506MA, S/N 40.497.

Performed operational inspection of aircraft and systems. No defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

AIR TIME

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 1/4/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1444.5 AFTT: 1444.5

Work Performed: Cleaned, inspected, and serviced all wheel bearings. Inspected and lubricated all flight controls. Replaced fuel pump with new from C J Aviation products, LLC part number 5100-009CJ from work order 304250. Installed new Battery From Concorde Battery Corporation P/N RG24-15M from work order 34242-041. Complied with AD2015-19-07 by visually inspecting fuel injector fuel lines and clamps between the fuel manifold and fuel injector nozzles. No leaks or defects found at this time. Next inspection due by AFTT 1554.5.

Performed ground run and operational inspection of aircraft and systems. No leaks or defects noted at this time.

All work listed above was performed I/R/T Diamond DA40 Series 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.



Scott Emmons A&P 4560305

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Airframe Date: 1/4/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

A/C S/N: 40.249 Tach Time: 1444.5 Total Time: 1444.5

Work Performed: I certify this aircraft has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Diamond DA40 Maintenance Manual and AC 43.13. This aircraft was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305



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

DATE: MARCH 04, 2022 | DIAMOND DA40-180 | S/N: 40.249 | REG: N249DS
TACH: 1473.7 HRS. TTAF: UNKNOWN

RESTORED COWLING TO RECEIVE THE ORIGINAL EXHAUST. REMOVED POWERFLOW SYSTEM AND INSTALLED ORIGINAL EXHAUST. REMOVED AND REPLACED FIRE PAINT TO THE BOTTOM OF THE COWLING. WORK COMPLETED IN ACCORDANCE WITH DIAMOND DA 40-180 AMM.



GLENN M. LAWLER

A&P 2151929IA