

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine

Date: 8/12/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2806.8 Total Time: 2806.8

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new CH48110-1 oil filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1: 78/80 #2: 72/80 #3: 78/80 #4: 77/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Set timing to 25 degrees. Replaced ring gear with servable unit. 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 2916.8.

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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 1A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine

Date: 8/12/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2806.8 Total Time: 2806.8

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 3170695 1A

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 9/9/2025 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2852.4

Total time: 2852.4

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

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

A/C Make/Model: Diamond DA40

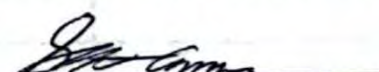
Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2899.1 Total Time: 2899.1

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 78/80 #2:76/80 #3:77 /80 #4:78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. 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 3009.1

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

ENGINE SERVICE AND

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 11/4/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

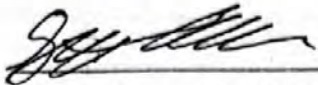
Engine S/N: L-30388-51A Tach Time: 2672.5

Total time: 2672.5

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed suction screen inspected, cleaned, reinstalled with new crush gasket to proper torque spec and safetied to comply with AD 2024-21-02 next due at next oil change. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2707.3 Total Time: 2707.3

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 78/80 #2: 79/80 #3: 78/80 #4: 77/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Replaced fuel nozzle AV2524864-2 for cylinder #2. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Replaced drain back line on cylinder #4. Installed overhauled prop governor P/N: C210776 S/M: 00197. 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 2817.3

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2707.3 Total Time: 2707.3

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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

Engine Date: 6/20/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

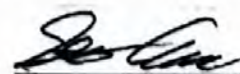
Engine S/N: L-30388-51A Tach Time: 2760.8

Total time: 2760.8

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications. Installed new tension spring on mixture control.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Engine

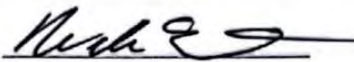
Date: 7/1/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2526.4 Total Time: 2526.4

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.


William Painter A&P 3170695 IA

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 8/9/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2574.9

Total time: 2574.9

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2623.0 Total Time: 2623.0

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 76/80 #2: 78/80 #3: 76/80 #4: 78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Installed overhauled left side magneto (P/N:4347 S/N:09041758 W/O: 48368). Installed overhauled right side Magneto (P/N:4370 S/N:21071198 W/O: 48368) Replaced fuel finger filter o-ring. Replaced oil drain with overhauled saf-air quick drain (P/N:P5000). 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 2733.0

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2430.9 Total Time: 2430.9

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.


Scott Emmons A&P 4560305

ENGINE SERVICE AND

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2430.9 Total Time: 2430.9

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 76/80 #2: 76/80 #3: 76/80 #4: 78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Retimed mags to 25 Degrees. Replaced fuel filter o-ring. 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 2540.9

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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


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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2430.9 Total Time: 2430.9

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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

Engine

Date: 7/1/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2526.4 Total Time: 2526.4

Engine Date: 5/24/2024 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A


Engine S/N: L-30388-51A Tach Time: 2485.0

Total Time: 2485.0

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications.

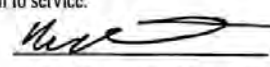
Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new CH48110-1 oil filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1: 79/80 #2: 79/80 #3: 78/80 #4: 78/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Replaced muffler mounting brace(D4L-7806-20-01). Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Set timing to 25 degrees. 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. Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

MAINTENANCE RECORD

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 11/30/2023 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 2306.5
Total time: 2306.5

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Engine Date: 12/26/2023 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 2336.0 Total Time: 2336.0

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 78/80 #2:79/80 #3:79/80 #4:78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Retimed mags to 25 Degrees. 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 2446.0 Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

Engine Date: 12/26/2023 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 2336.0 Total Time: 2336.0

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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


Engine Date: 2/9/2024 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 2379.6

Total time: 2379.6

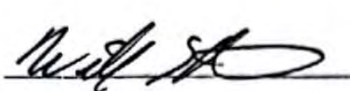

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected, and re-installed to proper torque specifications.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Kane Aviation LLC 22 Waypoint Dr NW Roanoke, VA 24012</p> <p>Engine Date: 9/09/2023 Tail #: N249DS</p> <p>A/C Make/Model: Diamond DA40</p> <p>Engine Make: Lycoming Engine Model: IO-360-M1A</p> <p>Engine S/N: L-30388-51A Tach Time: 2198.4</p> <p>Work Performed: Replaced left Magneto with servable mag from Aircraft Magneto Service (model 4347 S/N 16080536 under work order 40525). Replaced sparkplugs with new UREM38S plugs.</p> <p>Run up and leak check performed with no leaks or defects noted at this time.</p> <p>All work listed above was performed I/R/T Lycoming IO-360 Operators 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.</p> <div style="text-align: right; margin-top: 20px;">  William Painter A&P 31706951A </div> </div> <div style="width: 45%;"> <p style="text-align: center;">Kane Aviation LLC 22 Waypoint Dr NW Roanoke, VA 24012</p> <p>Engine Date: 10/4/2023 Tail #: N249DS</p> <p>A/C Make/Model: Diamond DA40</p> <p>Engine Make: Lycoming Engine Model: IO-360-M1A</p> <p>Engine S/N: L-30388-51A Tach Time: 2227.1</p> <p>Total time: 2227.1</p> <p>Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.</p> <p>Run up and leak check performed with no leaks or defects noted at this time.</p> <p>All work listed above was performed I/R/T Lycoming IO-360 Operators 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.</p> <div style="text-align: right; margin-top: 20px;">  Scott Emmons A&P 4560305 </div> </div> </div>					

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 11/3/2023 **Tail #:** N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming **Engine Model:** IO-360-M1A

Engine S/N: L-30388-51A **Tach Time:** 2264.3 **Total Time:** 2264.3

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 79/80 #2: 79/80 #3: 79/80 #4: 78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Retimed mags to 25 Degrees. 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 2374.3

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

Engine Date: 11/3/2023 **Tail #:** N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming **Engine Model:** IO-360-M1A

Engine S/N: L-30388-51A **Tach Time:** 2264.3 **Total Time:** 2264.3

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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

Engine

Date: 7/11/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2099.2 Total Time: 2099.2

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.



William Painter A&P 3170695 IA

Engine Date: 7/31/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2147.0

Total time: 2147.0

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Engine Date: 8/25/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2182.1 Total Time: 2182.1

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 76/80 #2: 77/80 #3: 77/80 #4: 78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Retimed mags to 25 Degrees. Replaced lower filler tube gasket 72059. 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 2292.1

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

Engine Date: 8/25/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2182.1 Total Time: 2182.1

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.



Scott Emmons A&P 4560305

ENGINE SERVICE AND

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 5/2/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2025.9 Total Time: 2025.9

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, torqued and safetied. Differential compression test performed results as follows: #1: 72/80 #2: 74/80 #3: 71/80 #4: 76/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Confirmed mags to 25 Degrees. Replaced lower filler tube gasket 72059. 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 2135.9**

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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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Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 6/12/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2072.9

Total time: 2072.9

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

TOTAL SINCE MFG.				
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Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 5/2/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2025.9 Total Time: 2025.9

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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

Engine

Date: 7/11/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 2099.2 Total Time: 2099.2

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new CH48110-1 oil filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1: 78/80 #2: 75/80 #3: 78/80 #4: 72/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Removed both mags for 500hr inspection. Installed mags PN: 4347 SN: 18110387 inspected by Aircraft Magneto Service WO: 39507 and PN: 4370 SN: 16090980 inspected by Aircraft Magneto Service WO: 40524. Set timing to 25 degrees. 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 2209.2.** Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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 Paipier A&P 3170695 IA

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 1/20/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1928.7 Total Time: 1928.7

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, lubricated, torqued and safetied. Differential compression test performed results as follows: #1: 75/80 #2: 72/80 #3: 74 /80 #4: 73/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Reset mags to 25 Degrees. Replaced lower filler tube seal. 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 2038.7 Run up and leak check performed with no leaks or defects noted at this time.

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

Engine Date: 1/20/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1928.7 Total Time: 1928.7

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1970.1

Total time: 1970.1

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed to proper torque specifications.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Engine Date: 3/31/2023 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1991.9

Total time: 1991.9

Work Performed: Removed spark plugs cleaned, inspected and re-installed to proper torque spec.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Engine Date: 9/24/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40


Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1793.3

Work Performed: Replaced left Magneto with new Champion model 4347 S/N 22011089.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1830.1 Total Time: 1830.1

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine 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

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

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1830.1 Total Time: 1830.1

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new AA48110-2 filter, lubricated, torqued and safetied. Differential compression test performed results as follows: #1: 78/80 #2: 80/80 #3: 79/80 #4: 78/80. Removed fuel injectors, cleaned, and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Reset mags to 25 Degrees. 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 1940.1

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

Engine Date: 11/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1879.1

Total time: 1879.1

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 8/10/202 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 1733.5 Total Time: 1733.5

Work Performed: I certify this engine has been serviced and inspected I/A/W a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service



Scott Emmons A&P 456035

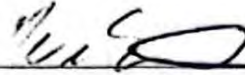
Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 9/7/2022 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 1754.3

Work Performed: Replaced all four cylinders with overhauled cylinders. Overhauled by Triad Aviation, INC under W.O. 27411.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 9/14/2022 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 1766.2 Total time: 1766.2

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

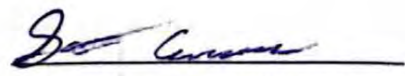
Engine Date: 9/19/2022 Tail #: N249DS
A/C Make/Model: Diamond DA40
Engine Make: Lycoming Engine Model: IO-360-M1A
Engine S/N: L-30388-51A Tach Time: 1784.4

Total time: ~~1784.4~~ 1784.4 + 56

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Removed oil screen inspected, cleaned reinstalled and safetied Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

Engine

Date: 6/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1634.8 Total Time: 1634.8

Work Performed: Drained oil. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new CH48110-1 oil filter, torqued and safety wired. Serviced with 7 quarts of Phillips 20W-50. Differential compression test performed results as follows: #1: 72/80 #2: 76/80 #3: 74/80 #4: 78/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. 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.

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 7/18/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1686.5 Total time: 1686.5

Work Performed: Drained oil and serviced with 7 quarts of Phillips X/C 20W50. Removed oil filter, cut open, and inspected. No contaminants found. Installed, torqued, and safetied new AA48110-2 filter. Removed spark plugs cleaned, inspected and re-installed.

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

All work listed above was performed I/R/T Lycoming IO-360 Operators 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

ENGINE SERVICE AND

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine

Date: 6/28/2022 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1634.8 Total Time: 1634.8

Work Performed: I certify this engine has been serviced and inspected I/R/T a 100 Hour Inspection I/R/T Lycoming IO-360-M1A Maintenance and Overhaul Manual, Diamond DA40 Maintenance Manual, and AC 43.13. This engine was found to be in an airworthy condition and is approved for return to service.



William Painter A&P 3170695 IA

Kane Aviation LLC
22 Waypoint Dr NW
Roanoke, VA 24012

Engine Date: 8/10/202 Tail #: N249DS

A/C Make/Model: Diamond DA40

Engine Make: Lycoming Engine Model: IO-360-M1A

Engine S/N: L-30388-51A Tach Time: 1733.5 Total Time: 1733.5

Work Performed: Drained oil and serviced with Phillips 20W-50. Removed, cut open, and inspected old oil filter. No contaminants found. Installed new CH48110-1 filter, lubricated, torqued and safetied. Differential compression test performed results as follows: #1: 71/80 #2: 70/80 #3: 69/80 #4: 73/80. Removed fuel injectors, cleaned and inspected, and reinstalled to proper torque specifications. Inspected and lubricated all engine controls. Removed, cleaned, and inspected spark plugs and reinstalled to proper torque specifications. Reset mags to 25 Degrees. 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 1843.5.

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

All work listed above was performed I/R/T Lycoming IO-360 M1A Maintenance and Overhaul 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 456035