



Andrew Finne
Air Safety Investigator
Office of Aviation Safety

Date: February 6, 2026

Subject: CEN24LA121 - Reexamination of Exhaust Valve Guides

Contact: Tony Wiegman - Maintenance Instructor

This is a summary of reexamination of the Exhaust Valve Guides by the airplane operator. Additional questions were raised following the NTSB Material Laboratory examination and a request was made to the operator to further clean and measure the Exhaust Valve Guides due to the cylinders being returned to the operator.

The operator cleaned all four valve guides with MEK prior to using a T-gauge for measuring the interior diameter of the guide in three locations. The guide was measured on the rocker side, mid span, and piston side. Any results below the minimum diameter of **.4985** as described in, Part 1, Reference 615, Chart S, of the Lycoming *SSP-1776-5-PT1 Service Table of Limits*, will be denoted in bold red. The results are in figure 1.

Cylinder	Piston Side	Mid Span	Rocker Side
1	.4990	.4976	.4972
2	.4983	.4977	.4975
3	.4985	.4980	.4971
4	.4974	.4972	.4962

Figure 1. Exhaust Valve Interior Dimension Measurements

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