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Request for Interpretation - Response April 21, 2008

Request for Interpretation (RFI) dated March 17, 2008, relating to clause 10.2.14 of ANSI/ALI Automotive Lifts – Safety Requirements for Construction, Testing and Validation (Technical Issue #TI-08-001).

This document summarizes the official response of the Automotive Lift Institute, Inc. (ALI) to the “Request for Interpretation” relating to the requirements of ANSI/ALI ALCTV-2006, Standard for Automotive Lifts – Safety Requirements for Construction, Testing and Validation, as submitted in March of 2008.

Request: The “request for Interpretation” is paraphrased here for clarity.

The ANSI/ALI ALCTV-2006 standard, clause 9.1.1.2.1 requires that the design criteria for material used in the construction of a hydraulic cylinder be subjected to a pressure of not less than 300% for ductile materials, and not less than 500% for non-ductile materials. The corresponding test criterion in clause 10.2.14 only refers to testing the parts at 3 times the maximum operating pressure.

Should clause 10.2.14 include test criteria that specifies testing the parts at 3 times the maximum operating pressure for ductile materials, as well as testing the parts at 5 times the maximum operation pressure for non-ductile materials?

Response: Yes. However, it may not be prudent to test hydraulic cylinders with non-ductile components to 500 percent if the materials of the rest of the cylinder are ductile and only require 300 percent. The test section allows for demonstration by other means such as performing the hydrostatic or pneumatic strength test of the component in a special fixture.