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**SPRING INSPECTION AND REPLACEMENT IN A-14167-KY and A-14167-3KY PRESSURE RELIEF VALVES
USED IN ACID SERVICE**

Valves Affected: Midland A-14167-KY and A-14167-3KY Pressure Relief Valves built before September 1, 2023, that are used in acid service.

Summary: This TSB alerts tank car owners/lessees and repair shops to inspect and replace potentially over-hardened valve springs in Midland A-14167-KY and A-14167-3KY pressure relief valves used in acid service. This inspection and replacement should occur at the valve's next service interval.

Background: A-14167-KY and A-14167-3KY pressure relief valves manufactured before September 1, 2023, may contain a valve spring (Part No. 15-225-SS) that does not conform to its original design specifications. The springs from one of the two vendors that make them are potentially over-hardened, which may increase their susceptibility to stress corrosion cracking when exposed to concentrated acid or acid vapors. In rare cases, the corrosion could lead to spring fracture and a consequent valve leak.

Recommended Actions:

- Midland recommends that tank car owners/lessees and repair facilities inspect and replace the 15-225-SS springs in the affected A-14167-KY and A-14167-3KY pressure relief valves at the next service interval. The inspection should include a review of the spring's markings for vendor identification.
- All springs marked "CTI" should be replaced. If a spring's vendor marking is illegible, consider replacing the spring as a precautionary measure.

Inspection and Replacement Procedure: General procedures to disassemble and inspect affected valves, and replace 15-225-SS springs, are available in the [A-14167 Installation, Operation, and Maintenance Manual](#).

Exclusions: 15-225-SS springs in other products or services and springs that are not marked "CTI" are not affected by this issue and do not require replacement.

Replacement Springs: To obtain replacement springs for affected valves free of charge, contact Midland customer service.

Contact Us: For additional questions, visit:

<https://www.opwglobal.com/midland/contact/sales-manager-locator> for contact information.

This TSB is based on extensive testing and performance experience and is the most current information available. Midland reserves the right to make changes in specifications and other information contained in this document without prior notice. The users should in all cases consult Midland to determine whether any such changes have been made.