

Energy Safety Canada is the national safety association for the oil and gas industry. We develop and support common industry safety standards, deliver effective learning systems, share data analysis and safety expertise with workers and employers, and advocate for worker health and safety. Our goal is the same as industry's – zero injuries, zero incidents.

Share and Collaborate / Energy Safety Canada works collaboratively with organizations to develop Safety Alerts that improve hazard awareness and injury prevention. Canada's leading oil and gas industry trade associations support the sharing of information to help companies of all sizes improve safe work performance.

Disclaimer / This document is intended to be flexible in application and provide guidance to users rather than act as a prescriptive solution. Recognizing that one solution is not appropriate for all users and situations, it presents accepted guidance that generally apply to all situations.

While Energy Safety Canada believes that the information contained herein is reliable under the conditions and subject to the limitations set out, Energy Safety Canada does not guarantee its accuracy. The use of this document or any information contained will be at the user's sole risk, regardless of any fault or negligence of Energy Safety Canada and the submitting organization.

Copyright/Right to Reproduce / Copyright for this document is held by Energy Safety Canada, 2018. All rights reserved. Energy Safety Canada encourages the copying, reproduction and distribution of this document to promote health and safety in the workplace, provided that Energy Safety Canada is acknowledged. However, no part of this publication may be copied, reproduced or distributed for profit or other commercial enterprise, nor may any part be incorporated into any other publication, without written permission of Energy Safety Canada.

To view other safety alerts please visit EnergySafetyCanada.com

VAC TRUCK HINGE PIN FAILURE

DESCRIPTION:

During a vacuum truck inspection the rear tank hinge pin was found to be sheared. Under slightly different circumstances, this could have resulted in catastrophic failure of tank securement. Additional weight or the dumping of fluids could have led to the entire vessel falling off the body of the truck.



Location of sheared hinge pin



Hinge pin sheared

CAUSE OF INJURY OR LOSS:

Road debris accumulation, fluid spillage, and location of hinge pin resulted in pin failure.

CONTRIBUTING FACTORS:

- Buildup of road debris in the hinge pin grease fittings and unprotected location of fittings
- Inspection intervals and greasing frequency

CORRECTIVE ACTIONS:

- Company examined all their vacuum trucks of similar design, to ensure hinge pins are inspected and greased.
- Company had engineer re-position of grease points to more protected location.
- Consider reviewing and, if necessary, revising service intervals. Company choose to revise theirs to every 250 hours.