



Technical Bulletin / Safety Alert

Unique ID No: GEN2008-TBSA-03 **rev:** 0

(This document supersedes SMV TB0908/02)

Subject: Operator Covered in Hydraulic Oil

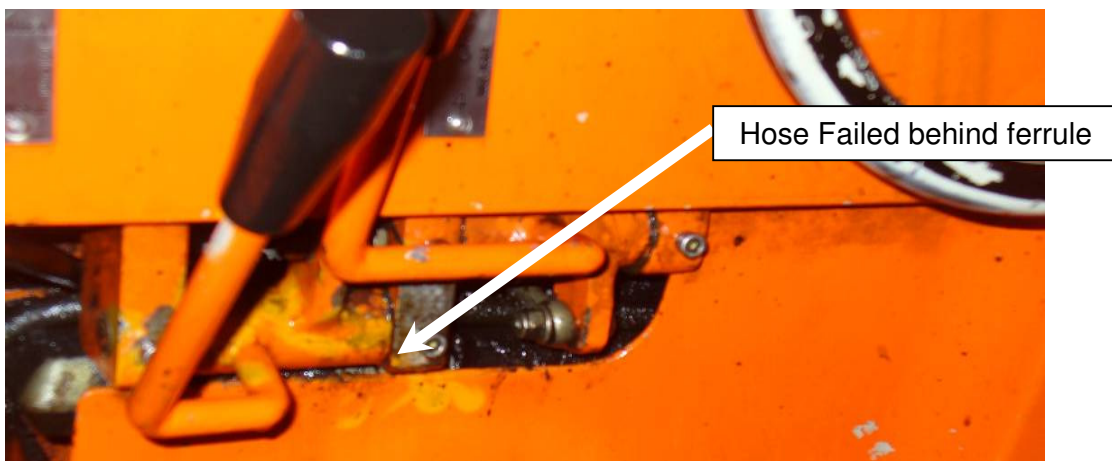
Date: 9/9/08

Applicable to: All JUG-A-0 UL/UV "V1" & "V2" Machines

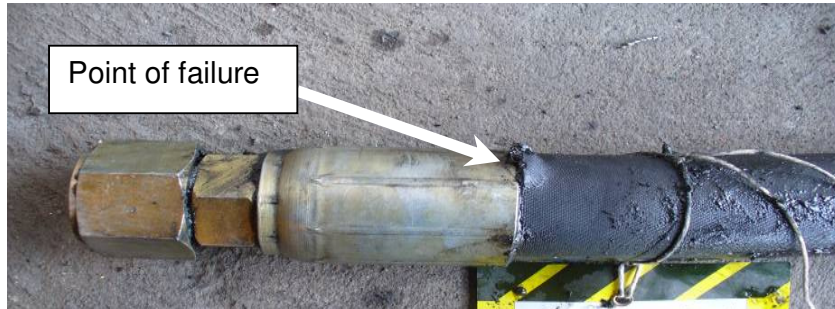
Note: Minimum PPE required to carry out any inspections contained in this TBSA shall be protective clothing & footwear, safety glasses, hearing protection & any site specific requirements. A JSA or equivalent should be carried out prior to performing these tasks.

Occurance:

A nightshift operator was operating a JUG-A-0 when a hydraulic hose blew behind the ferrule and sprayed hydraulic oil through a hole in the cover and covered him in the oil. The hose contains a maximum working pressure of 2700 PSI. The cover is shown below and point of failure is indicated.



The hose was replaced with a hose fitted with suppression sleeving as per the Colliery standard. The hose failure is shown below.



This incident is deemed a Notifiable Incident based on Clause 56(1) (o) of the CMH&S Regulation 2006. The NSW DPI was notified on 1/9/08.

Investigation & Cause:

This hose supplies the main DCV from the hydraulic system logic block. The standard hose fitted to the vehicles is a Gates product, designation M3K SAE100R17, & is 2 wire braids rated to 3000psi & capable of a 6" (150mm) bend radius.

As the system has the capability of going to 2800psi the hose that failed is under rated & should not be used. The failed hose has ruptured at the end of the ferrule where it has either "worked" through, its length was too short, or the assembly process was incorrect. These are all possible causes that could lead to hose failure.

The Colliery has sent the hose back to the manufacturer for assessment of the failure

Recommendations:

Immediate Action:

End users should inspect all of these hose assemblies to ensure they are the OEM standard, part no. 0312-10028.

Future Action:

Cover at least the first 300mm of this end of the hose with burst sleeve.

Fit the cover shown below around the transmission control handles.
Part no. 0508-50042.



Identified in this incident was the potential for any exposed joystick hoses to generate a similar incident. To prevent this it is recommended to fit the cover shown below. Part no. 0508-50043.



Supporting Documentation:

The Colliery has tabled its own report with the DPI.

Conclusion:

Items should only be replaced with those that are rated for the purpose.

Please ensure this document is circulated to all relevant personnel within your organisation.

Should you have any further queries please contact your VLI Diesel Representative.

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