



Technical Bulletin / Safety Alert

Unique ID No: DES2008-TBSA-01

Rev: 0

(This document supersedes SMV TB0908/01)

Subject: Possible Engine Shutdown Cylinder Failure

Date: 04/09/2008

Applicable to: VLI Diesel Driftrunners & Brumbies

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

Occurance:

During routine 103 inspections on a machine it was found that the engine system would not shutdown. The problem was traced backed to the fuel shutdown cylinder.

See the following excerpts from a report to the colliery by VLI Diesel Product Manager Steve Wilkinson:-

28th August 2008

Report on VLI Diesel Fuel Shut off cylinders.

A potential problem was reported to VLI Diesel regarding the operation of the fuel shut off cylinder fitted to VLI Diesel Driftrunners. VLI Diesel made some initial enquiries to the site to ensure that genuine OEM parts were the ones in question. I requested that one of the faulty cylinders be returned to VLI Diesel Tomago for inspection. I received that cylinder from site on Wednesday 27/8/2008 & proceeded to dismantle & inspect for this report, findings as follows:

Upon receipt seal on cylinder shaft was not in its correct position ie: inside of gland on shaft, instead was floating on shaft itself. (Figure 2).

When disassembled a considerable amount of contaminants were found throughout the internal parts of the cylinder. (Figures 3-11).



Figure 1.



Figure 2.



Figure 3.



Figure 4.



Figure 5.

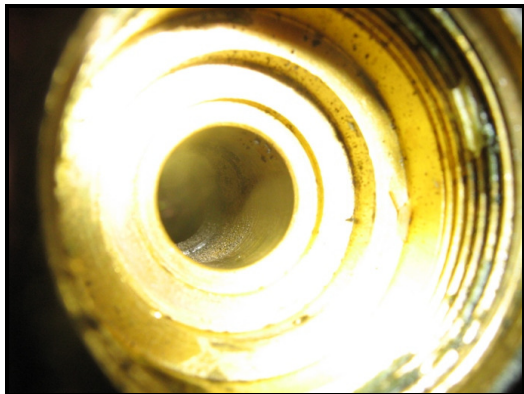


Figure 6.

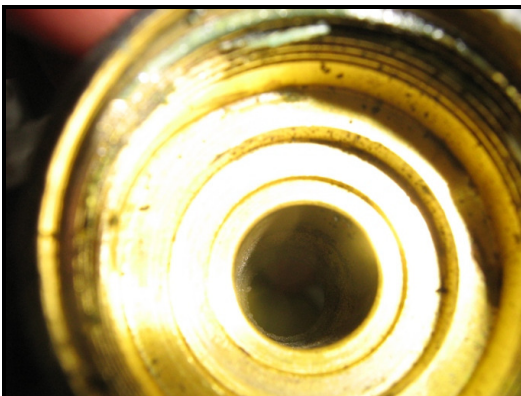


Figure 7.

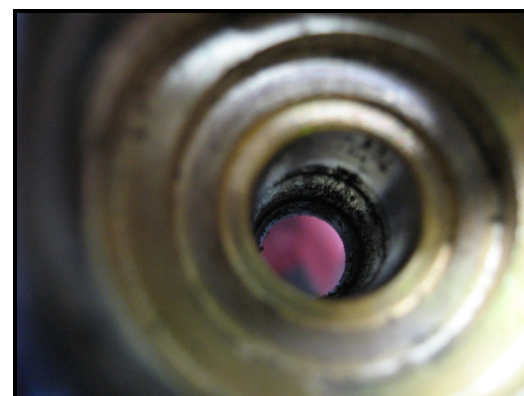


Figure 8.



Figure 9.



Figure 10.



Figure 11.

Conclusion:

It appears the cylinder failed to operate correctly due to contamination of the internal parts due to the ingress of foreign objects into the cylinder body. After dismantling, cleaning & lubrication of the shut off cylinder it functioned correctly without any signs of sticking whatsoever.

Recommendations:

VLI Diesel recommends regular inspections/maintenance of all components fitted to the Drifrunner with particular attention to the pneumatic circuit, safety circuit & Engine componentry.

Regards,
Steve Wilkinson
Product Manager

Investigation & Cause:

See the "Conclusion" in the above report.

Recommendations:

Immediate Action: All machines to have their Shutdown Cylinders inspected for integrity, ingress of contamination, & safe operation.

Machines to have the filtration fitted (if not already) as per Technical Bulletin TB04

Future Action:

Currently reviewing DES Risk Assessment.

Supplier has been contacted regarding their assessment & recommendations as to suitability of the current cylinder.

Supporting Documentation:

DES2007-TBSA-02

Conclusion:

After risk assessment review & consultation with supplier a determination will be made as to the suitability of the current cylinder.

A revision to this Technical Bulletin will then be issued.

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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