

Technical Bulletin / Safety Alert

Unique ID No: TBS2012-TBSA-01 Rev: 1

(This document supersedes all previous versions of the above TBSA)

Subject: Driftrunner & Brumby Master Cylinders – Incident Notification

Date: 20th September 2012

Applicable to: Design Registered Transport Braking Systems MDR083991TBS, MDR083991TBS-1 & MDR096013TBS

Revision Status: Rev 0 – Original Issue (6th July 2012) Rev 1 – Updated Investigation Report (20th September 2012)

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:

VLI Diesel Pty Ltd previously advised equipment owners and end users of a product issue affecting recently manufactured Driftrunner and Brumby Master Cylinder Assemblies.

VLI Part No.	Description
9-02201101	Service Brake Unit (Master Cylinder)

Incidents were reported of pressure decay of the service brake system on Driftrunner vehicles.

Emergency brake systems are not affected.

This TBSA provides an update to equipment owners and end users on the status of the investigation into the product issue.

Investigation & Cause:

Initial investigations identified bypassing in the master cylinder and the supplier confirmed that a batch of piston cup seals (refer item no. 3 in Figure 1 below) did not conform to designed dimensional requirements. An interim batch of seals was produced to address non-compliant product whilst the master cylinder supplier resolved the original issue with the piston cup seal supplier. It has been reported that some of the interim batch of seals have suffered a similar bypassing issue to that of the original supply. Due to this non-conforming product the master cylinder supplier has sought piston cup seal supply from an alternative (Quality System endorsed) supplier and these new seals are now available.

The master cylinder supplier has completed performance testing of the master cylinders and resolved the piston cup seal dimensional conformance issue with all new master cylinders contain conforming product. These master cylinders can be identified by the marking "AHYD21-1238R-M" stamped on the housing mounting flange plate.

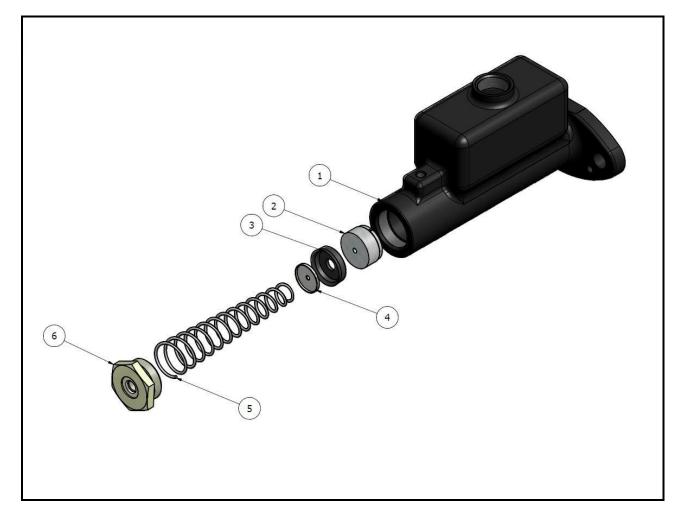


Figure 1: Master Cylinder Assembly GA. Item 3 is the piston cup seal.

Recommendations:

Equipment owners and end users should continue to inspect ABC brand master cylinders installed to their Driftrunner and Brumby vehicles. Mico master cylinders are not affected. All ABC master cylinders must be tested as follows:

- 1. Gauge (nominally 0 2000psi) to be installed down-stream of the master cylinder.
- 2. Service Brake pressure applied and held.
- 3. Observe pressure gauge. Pressure (nominally 1100 1200psi) must not decay within approximately 30 seconds.

Any master cylinder assemblies that do not meet the above performance test requirements are to be removed from service and replaced with conforming product supplied by VLI Diesel Pty Ltd.

Immediate Action:

VLI Diesel has inspected existing stock of master cylinder assemblies to confirm product conformance.

End users to immediately inspect Driftrunner and Brumby vehicles as per above recommendations.

Future Action:

The release of this TBSA concludes the investigation into this issue.

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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