Technical Bulletin / Safety Alert

Unique ID No: DES2012-TBSA-02   **Rev:** 2

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

Subject: Fuel Shut Off Cylinder

Date: 18th April 2013

Applicable to: VLI Driftrunner & Brumby Vehicles

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 previously reported the occurrence of VLI Fuel Shut Off Cylinders (Part No. 9-04160114) failing to adequately shutdown a VLI Driftrunner Diesel Engine System. Refer DES2012-TBSA-02 Rev 0 & Rev 1 for previous findings and recommendations.

In summary, the root cause of the fuel shut off cylinder faults was due to a dimensional non-conformance of an internal cushion disc causing interference on the cylinder rod during retraction. The cylinder manufacturer subsequently addressed all available VLI & Supplier stock.

Subsequent to the release of DES2012-TBSA-02 Rev 1 there have been 3 further instances of shut off cylinder faults due to non-conforming internal cushion discs.

Investigation & Cause:

Investigation of the latest cylinder faults has identified that although both VLI & Supplier individual stock had been inspected & replaced, there was unidentified stock in kits that appears not to have been addressed.

Below are the serial no. machines that have been manufactured, repaired or upgraded between August 2012 and present day that may be affected by this kit stock:-

New Build Machines (that may be affected)

Serial	Customer	Plant Number
55537	Solid Energy	SMV26
55538	Mine Lease	MLD02
55539	Solid Energy	SMV27
55540	Cartnal	Mining 12
55541	Impact	IME070
55542	CMM	CMM05
55543	Cape	55543
55544	Impact	IME071
55545	Rio Tinto- KME	MV3531
55546	Impact	IME072
55553	BHP Westcliff	SMV127
55554	BHP Westcliff	SMV128
55560	BHP Appin Mine	55560
55561	Bulga Underground	PT205
55562	Mackay Mine Hire	MMH01
55565	Oaky Creek	TP43
55566	Austar	SMV010
55567	Oaky Creek	TP42
55568	BHP Appin Mine	55568
55569	BHP Appin Mine	55569
55570	BHP Dendrobium	BUSD570
55573	Mine lease Pty Ltd	MLD03
55580	Austar	SMV011

Repaired Machines (that may be affected)

Serial	Customer	Plant Number
5036	Newstan	SMV02
5090	Appin West	5090
5100	Appin West	SMVA5100
5104	Angus Place	SMV2
5106	UGM	5106
5186	UGM	5186
5189	Westcliff	WDE120
5206	Angus Place	SMV06
5228	UGM	5228
5248	Wambo	SMV01
5275	BIS	2317
5282	Mandalong	MT404
5295	BIS	2323
5322	VLIDH	5322
5361	NRE Gujarat	SMV001
5384	Ulan Coal	7087
5349	NRE Gujarat	SMV004
11018	Narrabri	LHD001
11019	Cougar	XH11019

Immediate Action:

It is recommended the abovementioned machines be inspected for fuel shut off cylinder function & non-conforming product is replaced as required.

Future Action:

As part of VLI's continual improvement strategy a modification is taking place to the part that will ensure the potential issue is engineered out. All new cylinders will be supplied with a certificate of conformity & have serial no. tracking. The photographs below show the modified cylinder and serial no. location.

It is recommended that as a minimum these cylinders are replaced at 2 Yearly Mechanical Code D Inspections.

The cylinder's part no. 9-04160114 remains the same.

Recommendations:

It is recommended that all VLI Driftrunner & VLI Brumby Vehicle shutdowns continue to be tested as per the existing OEM recommendations, which includes daily shutdown systems testing.

Where fuel shut off cylinder operation is not occurring correctly, please contact VLI.

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

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

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