



Technical Bulletin / Safety Alert

Unique ID No: DES2012-TBSA-04 **Rev:** 1

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

Subject: MDR090376DES Exhaust System - Incident Notification

Date: 31st May 2013

Applicable to: VLI Diesel Pty Ltd Diesel Engine Systems covered under design registration no. MDR 090376 DES (Drifrunner & Brumby)

Details of Revision: 0. Original Issue

1. Release of 5-0410102-001 Stud- Exhaust Conditioner

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.

Introduction:

Valley Longwall International (VLI) previously advised the occurrence of an incident in relation to a VLI Drifrunner Vehicle Diesel Engine System covered under design registration no. MDR090376DES, refer DES2012-TBSA-04 Rev 0.

The incident occurred at a NSW Coal Mine, during a weekly service inspection, when the end user detected a leaking joint between the water based exhaust conditioner and the exhaust adaptor extension.

Investigation of the incident by VLI identified that machining to the mounting flange on the exhaust conditioner tank had reduced the depth of one of the threaded bolt holes to the minimum nominated tolerance; subsequently the bolt appeared to have become thread bound at this location, resulting in the reported leaking joint. It was considered likely that the joint integrity was intact on initial installation, and that subsequent in-service thermal cycling had resulted in the failure of the joint integrity.

Upon review of the exhaust conditioner tank to exhaust adapter extension assembly design and the allowable minimum tolerances of the component flanges, it was identified that there was potential for the thread engagement of the nominated bolts to render them thread bound.

Outcome:

To address the potential for the issue that resulted in the incident described above, VLI has developed a stud fastener (Part No. 5-0410102-001) to replace the previously used hex head bolts in this position.

The above stud is also included in the DES Code D Fastener Kit (Part No. 9-13010059).

The revised fastener installation for the exhaust adapter extension to exhaust conditioner fixed joint is shown below:

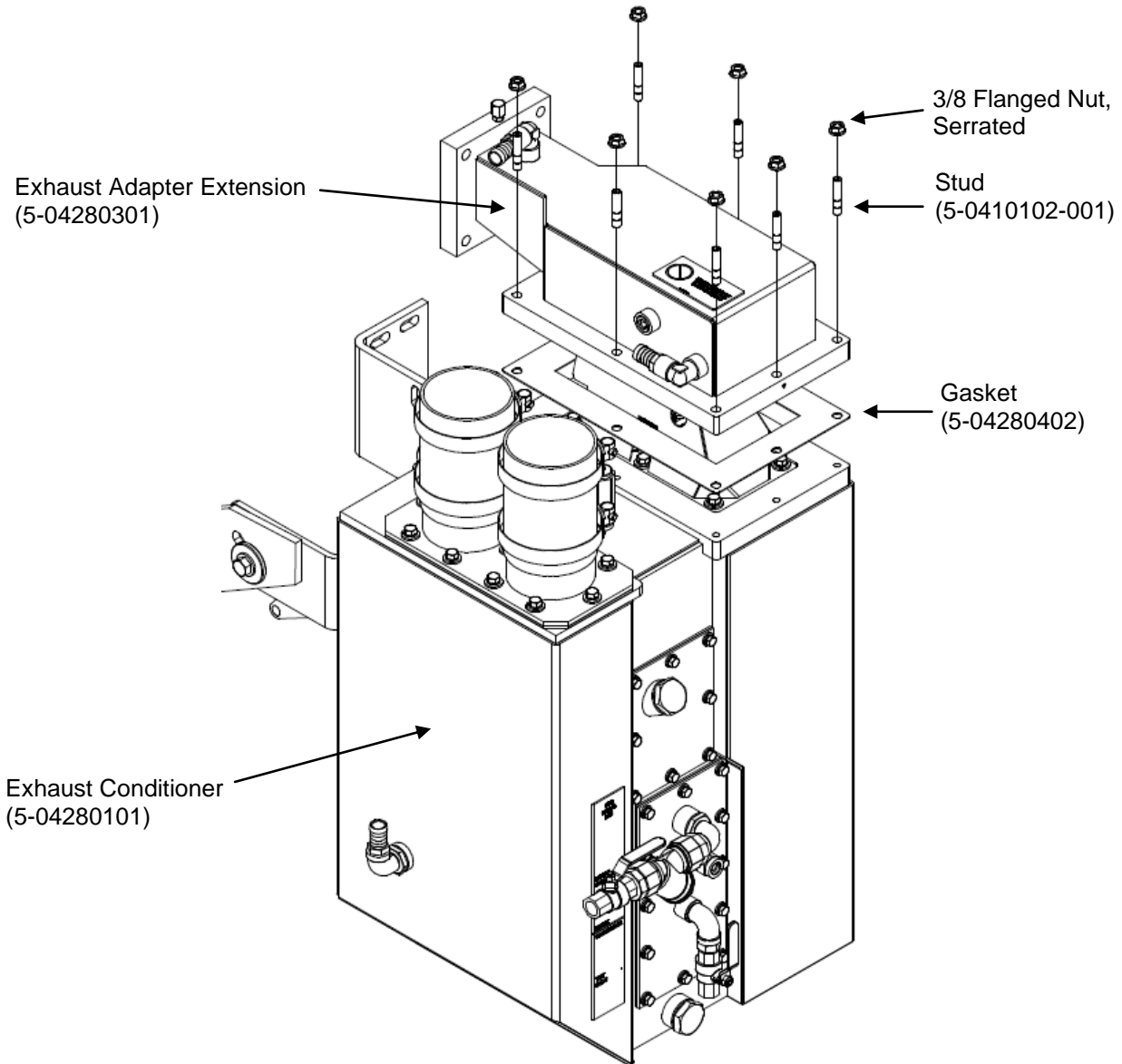


Figure 1: MDR090376DES Exhaust Conditioner Assembly

Recommendations:

All new Design Registered Diesel Engine Systems, MDR090376DES, to include the stud fastener (Part No. 5-0410102-001).

VLI recommends that end users and equipment owners of Design Registered Diesel Engine Systems, MDR090376DES, install the stud fastener (Part No. 5-0410102-001) at the next scheduled Code D mechanical inspection.

VLI recommends end users and equipment owners continue to inspect and maintain MDR090376DES Diesel Engine Systems in accordance with the recommendations of the original equipment manufacturer.

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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