



Rubber Tyred Vehicles Technical Bulletin

Bulletin Number: TB0828

Date: 17/12/2008

Subject: Failure of Explosion Protection of DES

Purpose

To inform the industry of a failure of an air inlet manifold on a Sandvik Cat3304 DES leading to loss of the explosion characteristics of the DES.

Applicable to

Sandvik 912, 913, 913-6, 915, 130 LHD's, 936 SH's, all vehicles utilising Cat3304 and Cat3306 Diesel Engine Systems.

Description

Sandvik have been advised that an incident recently occurred at a NSW colliery where a Sandvik 913 LHD was operated with a cracked air inlet manifold. This failure compromised the explosion protection characteristics of the DES.

The component had been inspected by a third party in August 2005 and August 2007 as part of an AS/NZS3584.2 Code D inspection.

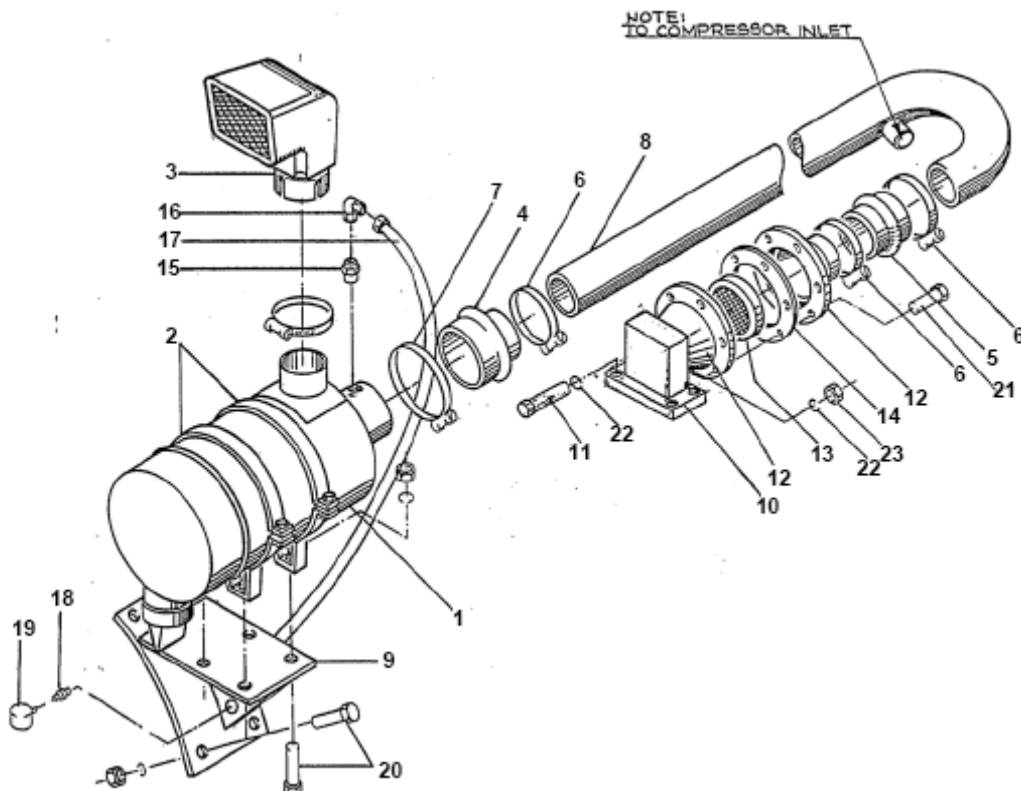


Figure 1 – Typical Sandvik Cat3304 air intake group. Air inlet manifold is item 10, Sandvik Part Number A2U913-241016.

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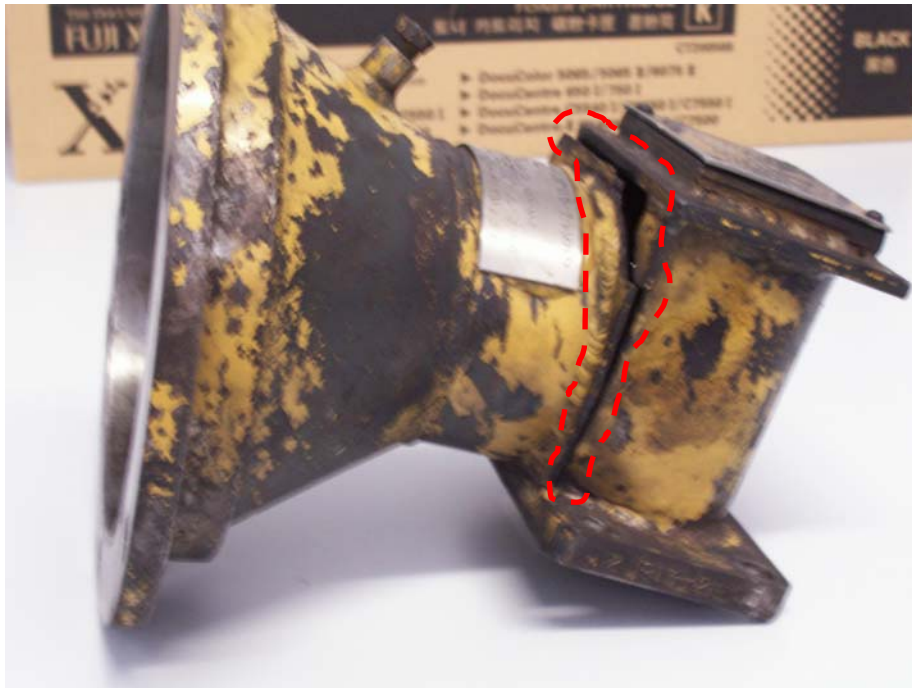


Figure 2 – Photo of cracked manifold. Crack is circled.



Figure 3 – Photo of cracked manifold. Visible section of crack is circled.



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Changes

Sandvik have received the failed manifold from the colliery. Sandvik will conduct an investigation into the failure mode of the component and will advise the outcomes the investigation when available. In the interim, Sandvik recommend End Users of all Cat3304 and Cat3306 DES perform the following inspection as soon as possible:

- a) Conduct an inspection of all Cat3304 and Cat3306 air inlet manifolds in your fleets prior to operation in hazardous zones. For this audit a careful visual examination may be performed, however it is recommended that a dye penetrant crack test is performed.

Sandvik recommend that the following routine inspections are also performed in the interim:

- a) Visually inspect every 10 hours or daily.
- b) Crack test externally every 500 hours or 3 monthly.
- c) Ensure the manifold is inspected as part of the DES Code D service (every 2000 hrs or yearly), in particular the hydrostatic pressure testing, and internal examination of the component.

Any manifolds showing signs of cracking or deterioration should be replaced.

Contact

Contact your Sandvik representative for further information or any questions you may have.

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