



Dear Sirs

In few cases we have received reports that one or two bolt heads (Item 1) have broken off on a camshaft section. In these cases we have recalled the bolt for further investigations to determine the root cause. These investigations revealed that the bolts have either been over-tightened or exposed to corrosion.

**Action:**

Check if any bolts are loose or if bolt heads have broken off. We recommend that the camshaft bolts are checked at intervals of 2000 running hours. If bolts are found broken or loose, all bolts should be replaced by new M16 - quality 10.9 bolts, lubricated with lube oil and tightened with 250 Nm.

**It is very important that the thread holes for the bolt are cleaned from old grease and oil before new M16 - quality 10.9 bolts are installed, in order to secure correct tightening torque.**

By the above-mentioned solution we eliminate also the brittle sensitivity when an M16 - quality 10.9 bolt is installed.

**Please be aware that the thread types for the valve cam and the fuel cam are not the same specification. Therefore, when purchasing new bolts, please do not hesitate to contact us for correct specification of the necessary parts.**

Yours faithfully

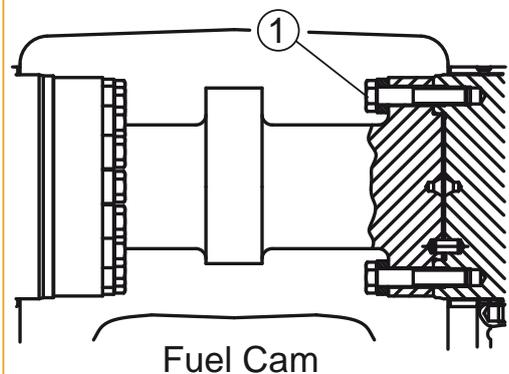
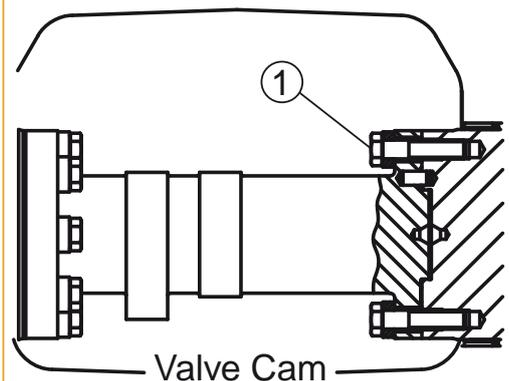
Action code: **At first opportunity**

**Broken Camshaft Bolts (M16 - quality 12.9)**

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SL10-536/MNA

**Concerns**

Owners and Operators of MAN  
Four-stroke Diesel Engines Type  
Propulsion L27/38.



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