










August 18<sup>th</sup>, 2010

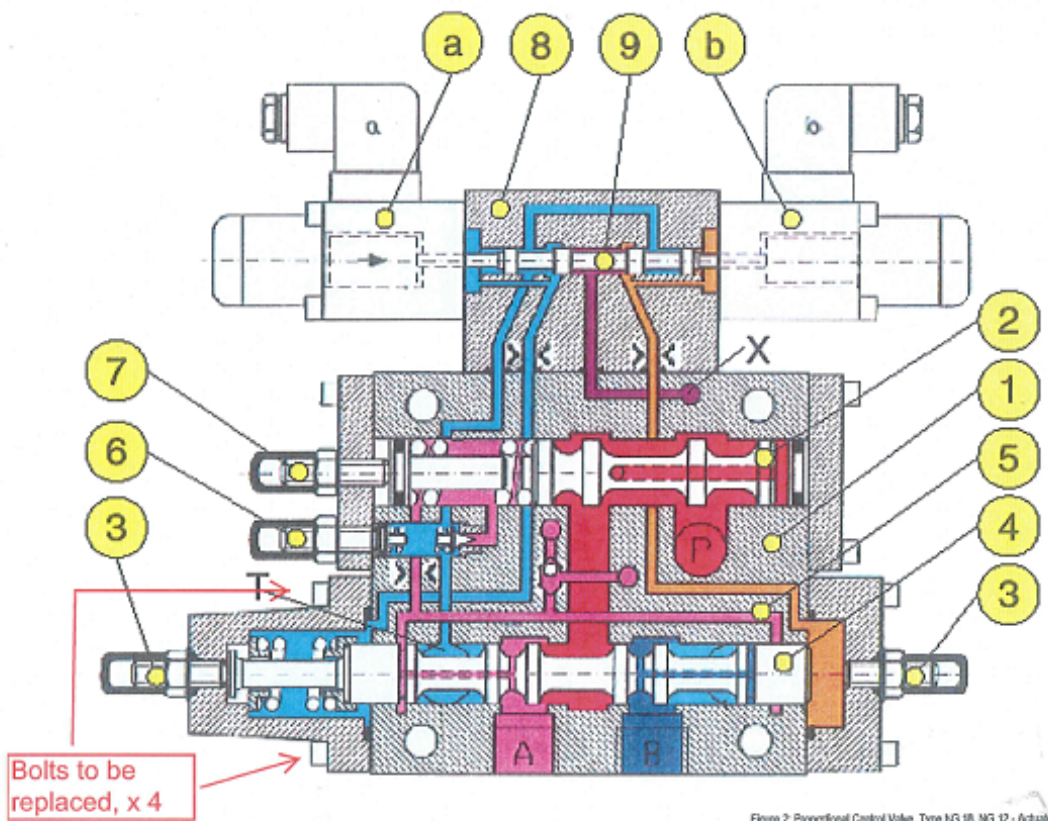
|   |   |  |   |   |
|---|---|--|---|---|
| <b>1. Topic:</b>  |    | <b>EJECTION OF HYDRAULIC VALVE COMPONENT</b> |   |   |
| <b>2. Exposed product(s) / Part(s) / Serial number(s):</b>  | SANDVIK ABM20 SERIES 2 AND ABM25 001 TO 035<br>CONTINUOUS MINERS  |  |   |   |
| <b>3. Possible occurrence of topic:</b>   | <input type="checkbox"/> Transport <span style="float: right;"><input checked="" type="checkbox"/> Maintenance</span><br><input checked="" type="checkbox"/> <b>Operation</b> <span style="float: right;"><input type="checkbox"/> Spare parts</span><br><input type="checkbox"/> Trimming <span style="float: right;"><input type="checkbox"/> Others:</span>  |  |   |   |
| <b>4. Market area:</b>  | <input checked="" type="checkbox"/> EU, Others <span style="float: right;"><input checked="" type="checkbox"/> Canada, USA, Australia</span>  |  |   |   |
| <b>5. Supplementary safety information including new hazard(s) identified how to avoid the hazard(s) and the potential consequences of not avoiding the hazard:</b>   |   |  |   |   |
| <div style="background-color: orange; padding: 5px; display: inline-block;"> <b>WARNING</b></div>  |   |  |   |   |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center; vertical-align: middle;"> <br/><br/>  </td> <td style="padding: 5px;"> <p><b>IMPACT AND HYDRAULIC FLUID RELEASE HAZARD!</b></p> <p>Sandvik has been informed of an incident where the end cap of a hydraulic valve bank was ejected from the valve body and impacted a steel door on the side of the machine.</p> <p>This end cap failure will result in the uncontrolled release of hydraulic fluid.</p> <p>This failure has the potential to injure personnel working in the vicinity of the valve due to impact or uncontrolled release of pressurised hydraulic fluid.</p> <p>The cause of the component failure was identified as corroded end cap bolts.</p> <p>To avoid this hazard, follow the recommendations in section '6. Actions to be taken immediately' and section '8. Recommended Actions'.</p> </td> </tr> </table> |   |  | <br><br> | <p><b>IMPACT AND HYDRAULIC FLUID RELEASE HAZARD!</b></p> <p>Sandvik has been informed of an incident where the end cap of a hydraulic valve bank was ejected from the valve body and impacted a steel door on the side of the machine.</p> <p>This end cap failure will result in the uncontrolled release of hydraulic fluid.</p> <p>This failure has the potential to injure personnel working in the vicinity of the valve due to impact or uncontrolled release of pressurised hydraulic fluid.</p> <p>The cause of the component failure was identified as corroded end cap bolts.</p> <p>To avoid this hazard, follow the recommendations in section '6. Actions to be taken immediately' and section '8. Recommended Actions'.</p> |
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| <b>6. Actions to be taken immediately:</b>  |   |  |   |   |
|    | <p>Fully isolate the machine prior to opening the access panel to the valve banks.</p> <p>At the next opportunity, replace the end cap bolts on all valve banks in excess of 3 years old.</p> <p>For all other valve banks, check tightness of bolts.</p> <p>The end cap bolts to be tightened/replaced are shown in Section 9.</p>   |  |   |   |
| <p><b>The Owner of machinery has a liability to inform and when necessary to train according to the content of this Bulletin all the personnel (like operators, maintenance personnel) whom this Bulletin concerns.</b></p>   |   |  |   |   |
| <b>7. List of Attachment(s):</b>  |   |  |   |   |
| There are no attachments to this Safety Bulletin.   |   |  |   |   |

**8. Recommended Actions:**

Add to the service schedule for the miner to replace the bolts every 3 years. Minimum property class 8.8.  
 Add to the service schedule for the miner to check bolt tightness every 12 months. Maximum torque 18Nm.  
 Notify personnel of the requirement to fully isolate the machine prior to opening the access panel to the valve banks.

**9. Further details to Customers:**

The end cap bolts are identified in the figure below.



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**Approved by Product Line Manager:** Alan Bruce |

**Please contact your local Sandvik office for any further information you may require**