



The Chemical Company

# **Construction Unit Damage and Corrosion Attack at CO<sub>2</sub> Reciprocating Compressors**

by:

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## **Abstract:**

At the Ludwigshafen Verbund site of BASF Aktiengesellschaft, saturated carbon dioxide is compressed at about 250 barg. This process has been working since 1975 without any problems. In 2003 unexpectedly high corrosion rates of up to 8 mm/year occurred. The causes, the automatic effect of CO<sub>2</sub> corrosion, and remedy measures were recorded.