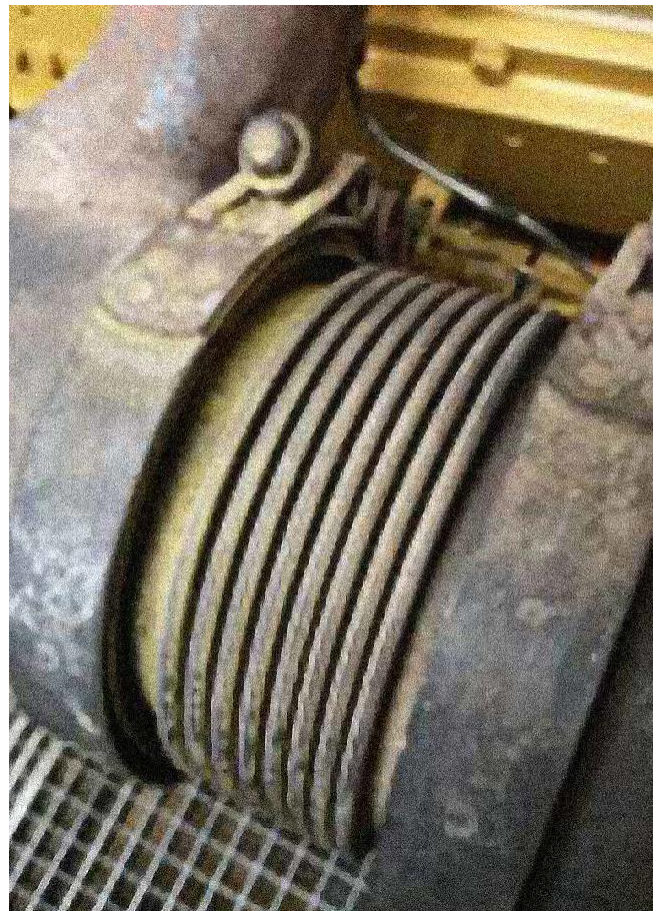


# WARNINGS

for work on exhaust systems of internal combustion engines

There is evidence that in the course of operation of combustion engines in the area of parts of the exhaust system made of stainless steel or the heat insulation can form hexavalent chromium compounds (chromiumVI, Cr6) under certain conditions (high temperatures, presence of catalysts<sup>1</sup>).

Yellow deposits on such parts are an indicator of the presence of such connections.



Cr6 compounds belong to the group of carcinogenic substances according to EU Regulation 1272/2008 (CLP) if inhaled. They are further considered to be a respiratory sensitizer (asthagen) and a skin sensitizer that can cause allergic dermatitis.

1) Catalysts are substances that accelerate or initiate chemical reactions.

# PROTECTIVE MEASURES AND RULES OF CONDUCT

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According to current knowledge, there is **no risk** as long as **no work** is carried out **directly on parts of the exhaust system**.

During work on parts of the exhaust system (disassembly, cleaning, repair, assembly), there is a general ban on smoking and on the consumption of food and beverages.

Before starting work on engines, visually check the area of the exhaust system for the presence of the described deposits. If such deposits are found, if the inspection is not possible without disassembly work (e.g. of thermal insulation) or if the quick test described below is positive, the following PPE must be used to continue the work:

- Disposable protective suit
- Protective gloves nitrile
- Respiratory protection min. P2, e.g. FFP2mask
- Eye protection/full vision goggles

**Do not touch or wipe off any possible deposits with bare hands! Avoid swirling up the deposits at all costs! Do not use compressed air for blowing off! Ensure sufficient ventilation in closed rooms.**

If Cr6 compounds are suspected, a rapid test can be performed. Use the test kit. Observe the manufacturer's instructions for use (Dust and particles appendix)!

Treat surfaces with positive test results or described deposits with Cr6 neutralization liquid. Observe the manufacturer's instructions for use and the operating instructions!

Pick up neutralized residues with a suitable industrial vacuum cleaner with HEPA filter or dampened cloth/rag.

Contaminated PPE, residues from the processing of contaminated parts, and contaminated parts to be disposed of.

collect even in tightly sealed containers.

Dispose of waste with AVVSchl.Nr. 160902 separately.

**After completing work and before consuming food and beverages, hands must be cleaned thoroughly.**

**Deposits detected and positive results of rapid tests must always be reported in the working report to note!**

## **Note / Repair**

The protective measures and rules of conduct in these operating instructions are based on the information known at the time of preparation (10.11.2021). If new information should become known, the hazard measures and rules of

The safety assessment and the operating instructions must be adapted accordingly. The accuracy and completeness of the information on this information sheet are not guaranteed. Subject to change without notice.