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This circular replaces:

Hexavalent Chromium (Cr6, CrVI)

Valid for: **All engines and gensets**

Contents:

- General information
- Appendix
  - B 0-0-12 Safety notes for working with hexavalent chromium (Cr6)

General information

Caterpillar has been advised by a third party and has confirmed through independent lab testing that hexavalent chromium (yellow powder) has been detected on exhaust and heat shield systems on Caterpillar engines. Caterpillar products meet all hexavalent chromium applicable regulations and requirements where originally sold.

Caterpillar Energy Solutions GmbH has determined Cr6 is not present in the materials or processes used for engine components.

Since, in general, the generation of Cr6 on engines is not yet understood, residues containing Cr6 cannot be excluded.

Hexavalent chromium may be encountered in-use from sources such as aftermarket parts, interactions with maintenance materials and/or certain operating environments. While lab testing is the only sure way to know if hexavalent chromium is present, an indication that hexavalent chromium may be present are yellow residual deposits (figure 1 below), typically in areas of high heat such as on exhaust manifolds or exhaust insulation.

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Note:
There is no revision service for the parts numbers specified in this document. Only the spare parts documentation is binding for the identification of spare parts.

Copies to:
- TR
- According to SIT 7010

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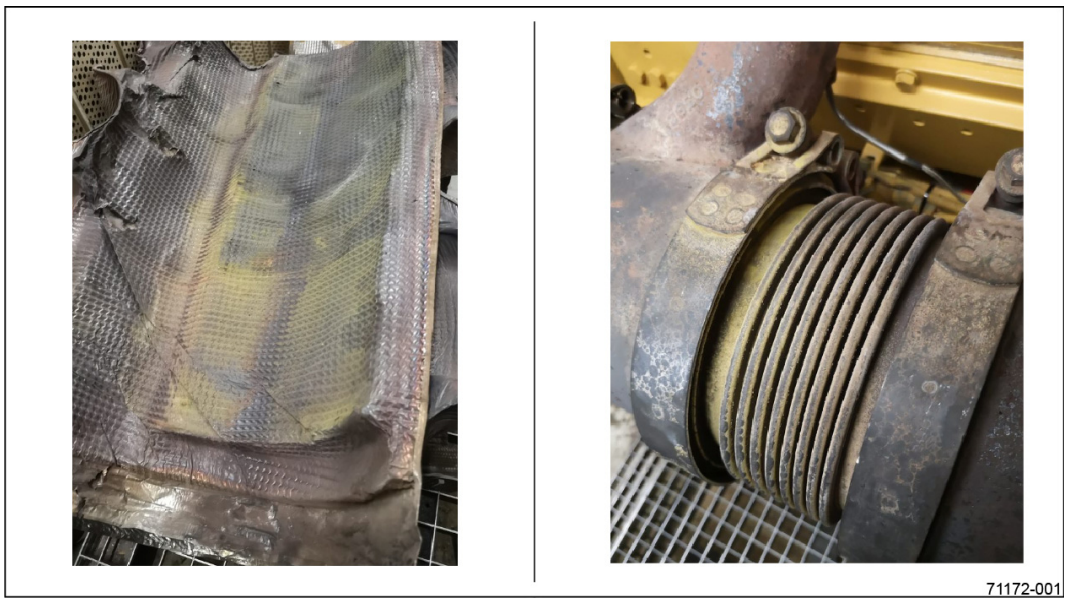

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If such yellow residual deposits are found on the engine, engine component parts, or associated equipment or package, Caterpillar recommends following local regulations and guidelines and good hygiene and safe work practices. Precautionary examples are listed below:

- Avoid creation of airborne dust containing the yellow deposits. If generation of airborne dust cannot be avoided, it is advisable to use a face shield or goggles and a negative pressure half mask respirator with P-100 cartridges (or equivalent).
- Wear personal protective equipment to prevent skin and eye exposure. Wear cut proof nitrile gloves and a disposable protective suit.
- Wash hands and face with soap and water prior to eating, drinking, smoking or during rest room breaks to prevent ingestion of any yellow powder
- Avoid release of the residual deposits to the environment. All waste generated during the repair process including cleaning towels, and used PPE need to be collected and stored in a proper container pending disposal as hazardous waste.

Should you need any further information, help or assistance relating to Caterpillar's processes or the compliance associated with these products, please do not hesitate to contact your local representative.

Additional information on the health effects of Hexavalent Chromium is available via the url below or please review your local guidelines.

https://www.osha.gov/Publications/OSHA-3373-hexavalent-chromium.pdf

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Appendix

Introduction of a new job card B 0-0-12 Safety notes for working with hexavalent chromium (Cr6).

Please amend the accompanying job card in your existing documentation.

Service Information

This document was created digitally and is valid without a signature.

This is a translation of the German original. All translations are based on the German original.

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