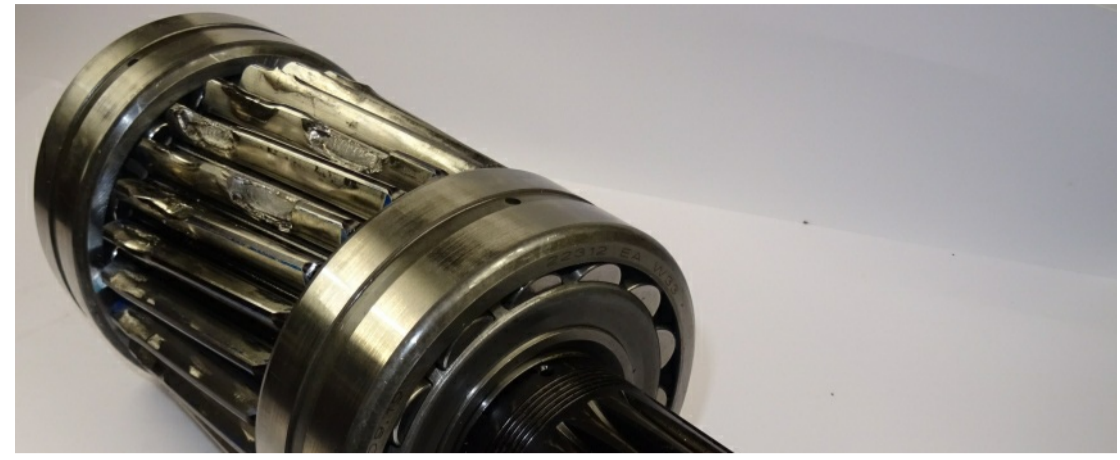


# FAILURE OR DAMAGE OF MECHANICAL COMPONENTS

Analyse and understand the failure of a component, transmission or a mechanical equipment



## Your expectations

A mechanical transmission component (bearing, gear, reducer, shaft, coupling, pinion, ball joint, chain, splines, clutch, gearbox, shaft line ..... ) is considered to have failed when it no longer performs its function correctly: noise, vibrations, poor performance, overheating, wear, chipping, galling, cracking, breakage.

Following the failure of a mechanical transmission component, you want to carry out an analysis to:

- Identify the causes, origins and remedies;
- Understand the degradation phenomenon(s);
- Determine the responsibilities of the parties involved (designer, manufacturer, installer, user, maintenance);
- Prevent recurrence.

## Our solutions

Cetim proposes and carries out a factual, exhaustive and multidisciplinary investigation, based on all the observations and parameters linked to the failure:

- On-site expertise;
- Analysis of the failure, taking into account the history, operating conditions and environment of the component and machine;
- Search for any manufacturing or implementation defects;
- Laboratory resources for testing components on test benches;
- Simulation resources to confirm damage hypotheses;
- Advice and support for failure resolution and redesign.

## Your benefits

Cetim, independent and neutral technical centre, is a leader in the analysis of mechanical behaviour in operation.

- With over 50 years' experience, it deals with nearly 1,500 new cases every year, in all areas of mechanics: mechanical, metallic, plastic and composite damage, etc.

- Our organisation is recognised by legal experts and insurance companies.
- Neutrality and independence, guaranteeing you the objectivity of our results.
- A comprehensive, multi-skilled approach that deals with failures from their origins right through to the implementation of practical solutions.
- Support via tailored and customisable training courses, with Qualiopi certification.



**Question and Answer Service**  
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