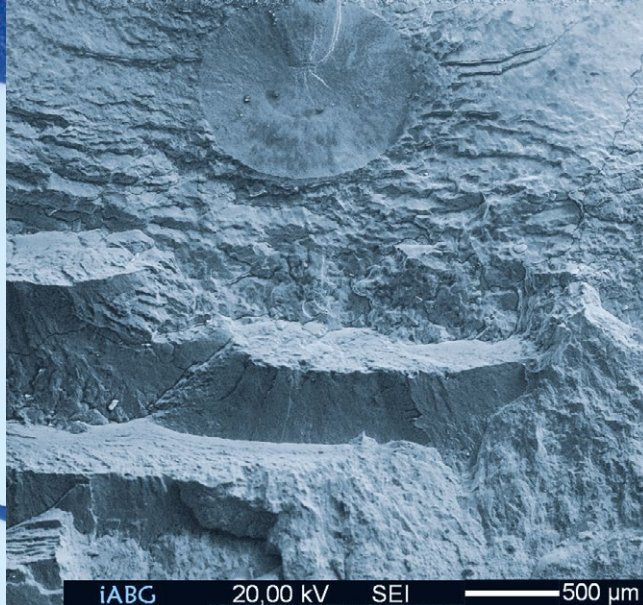


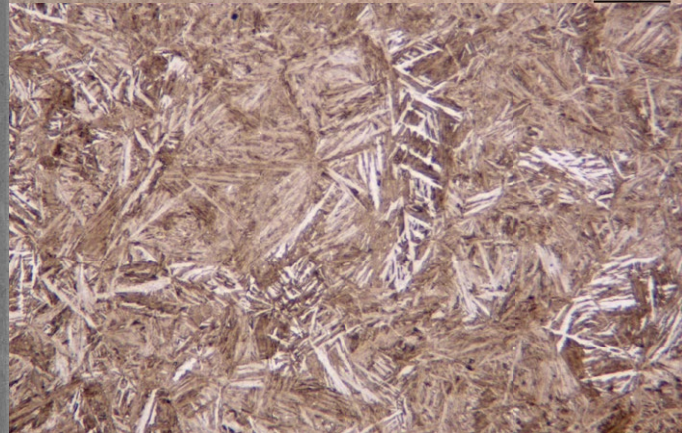
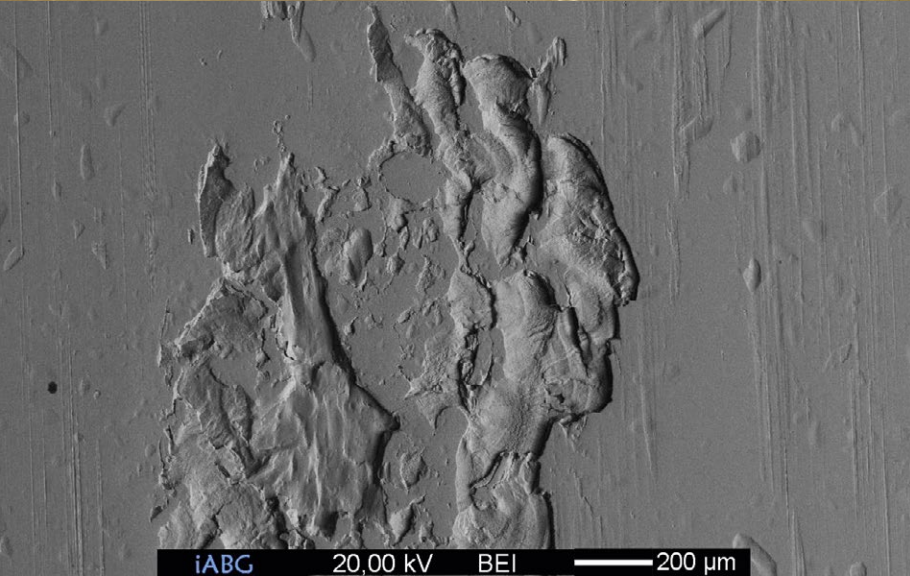
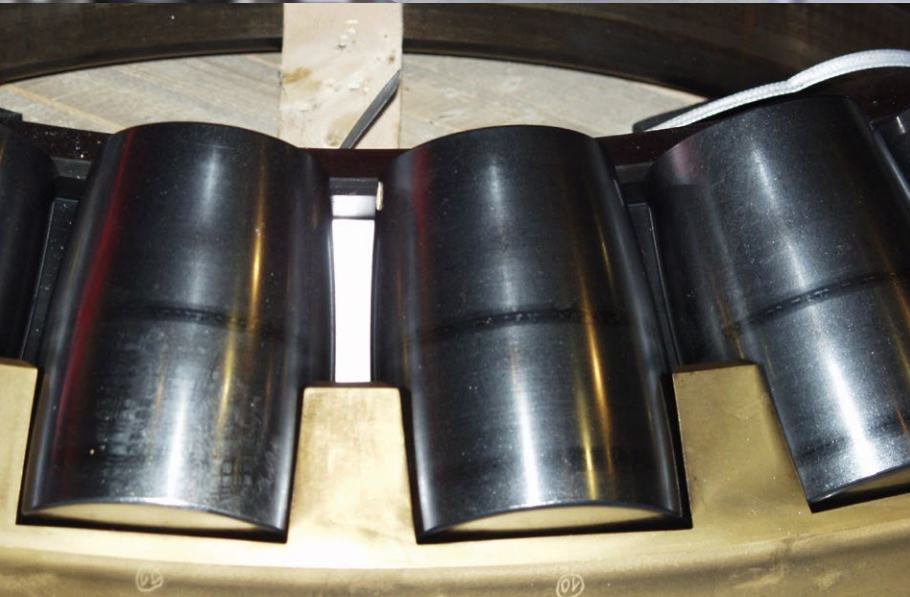
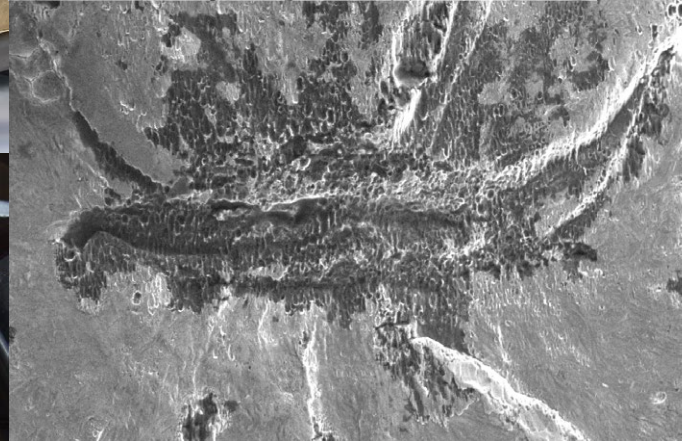
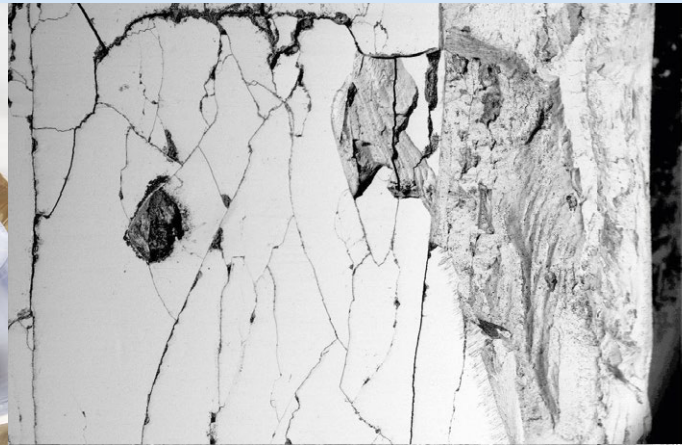
Mechanism – Cause – Prevention



Systematic failure analysis

VDI 3822 - compliant

Tests and analyses in an accredited
materials testing laboratory





Systematic failure analysis

VDI 3822 – compliant

The IABG materials testing laboratory is an independent facility accredited for material and failure analyses. Our methods and reports comply with the VDI 3822 standard established by the Association of German Engineers (Verein Deutscher Ingenieure, VDI). We perform on-site failure assessments followed by any required analyses and tests to identify the prevailing failure mechanism and derive the failure cause. Our experts then develop suitable corrective measures and advise customers on how to prevent future failures.

Failure mechanism identification

- Metallographic testing
- Macro- and microhardness testing
- Fractographic analysis using
 - Stereo microscopy
 - Scanning electron microscopy
- Chemical materials analysis
- Residual stress measurements

Failure cause analysis

- Definition of a failure hypothesis
- Clarification of the failure cause
- Creation of failure reports

Failure prevention measures

- Consulting specific to the individual customer and problem
- Product- and process-supporting analyses
- Supplier evaluation
- Incoming goods inspection (IGI)

Field monitoring

- Non-destructive testing
- On-site services
- In-the-field metallography techniques
- Replication techniques



AUTOMOTIVE



INFOCOM



MOBILITY, ENERGY & ENVIRONMENT



AERONAUTICS



SPACE



DEFENCE & SECURITY

About IABG

IABG offers integrated, ground-breaking solutions in the sectors Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security. We provide independent and competent consulting. We implement with future viability and target orientation. We operate reliably and sustainably. Our success is based on an understanding of market trends and requirements, on our staff's technological excellence and a fair relationship with our customers and business partners.

As a development partner we provide quality control services and develop solutions in the areas of functional efficiency, quality, design, and materials. We offer a broad spectrum of products and services, ranging from numerical analysis to experimental testing to the realisation of turnkey, customised test systems that we operate for the customer.

IABG Failure Analysis Hotline

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