

Damage Investigation and Product Qualification

Independent expertise for railway vehicles and infrastructure

Cracks, fractures and material defects in **safety-critical railway components** can have **significant impacts on safety, availability and maintenance costs**.

Identifying the root cause quickly and reliably is essential for **taking appropriate corrective action and preventing recurrence**.

DB Systemtechnik combines extensive railway-specific expertise, decades of practical experience and ISO 17020 accredited inspection services in materials and failure analysis.

Our specialists **deliver independent, objective assessments** supported by **state-of-the-art laboratory capabilities**, providing a trusted basis for decision-making, supplier discussions and regulatory matters.



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Our services

- Damage and failure investigations to determine the root causes of cracks and fractures in safety-critical railway components such as wheels, rails, wheelset axles and turnouts
- Assessment of non-destructive testing findings and classification of defects as manufacturing-related or operationally induced
- Material investigations for DB product qualification programs
- Qualification and requalification of suppliers for wheels, rails, wheelset axles, turnouts and other railway components
- Independent inspection reports and expert assessments
- Technical support for materials- and damage-related railway issues

Your contact

Peter Zimmer

Peter.P.Zimmer@deutschebahn.com

Your advantages

- Independent and impartial evaluations
- Rapid identification of suitable corrective actions for rolling stock fleets and infrastructure
- Support in preventing future failures and recurring damage
- Inspection reports that provide a sound basis for discussions with suppliers and authorities
- Verification of material conformity with applicable standards and requirements
- Railway-specific expertise backed by accredited inspection services and advanced laboratory capabilities