



# Tribology

Everything runs smoothly with our solutions.

Lubricants and insulating oils play a crucial role in safe and efficient rail operations. **Regular monitoring of the chemical and physical parameters of these operating materials is essential** to assess the condition of the lubricants and the associated components.

Our comprehensive analyses and the recommendations we derive from them enable you to **optimise the replacement intervals for your operating materials** and significantly reduce the **maintenance costs for vehicles and systems**. In this way, we help you to **prevent damage to your assets** and **extend the service life of your components**.



© DB Systemtechnik

**Our  
knowledge  
is your success.**

## Our services

- **Development** of railway-specific lubricants
- **Condition analysis** of lubricants and insulating oils
- **Detailed damage analyses** and expert advice to prevent wear
- Use of **state-of-the-art analytical methods** in accordance with national and international standards
- Use of advanced, railway-specific inspection methods
- Use of **accredited test methods**
- Creation of **lubricant-related maintenance documentation**

Our **test methods** include:

- Condition analysis of insulating oils, lubricating greases, engine oils, transmission/hydraulic oils and fuels
- Lubricant substitution
- Tribological testing
- Creation of lubrication plans

## The benefits for you

**Targeted analysis and optimisation of your lubricant and insulating oil portfolio** enables you to **save costs** and **improve operational safety**. Our decades of experience in the area make us a partner you can rely on.

- **Cost savings:** Reduction of lubricant consumption through optimised replacement intervals
- **Damage prevention:** Regular condition monitoring prevents wear-related damage to assets
- **Optimised maintenance costs:** Extension of component service life and reduction of component reconditioning costs
- **Quality assurance:** Batch-by-batch conformity assessments ensure that lubricants comply with quality requirements
- **Guaranteed independence and neutrality** as an accredited testing laboratory

## Your contact

**Thomas Köhler**

thomas.to.koehler@deutschebahn.com

Tel.: +49 (0) 89 1308 7429

**Visit us on the web  
& follow us on LinkedIn**

