

Your Expert for Gearbox Repairs



for All Brands



- Analysis and investigation inspection
- General inspection
- Modification and adaption
- Nondestructive examination
- All-around carefree package
- Education and training



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The GGT GearSaver® – Gearbox Condition Monitoring System

As an established and long-standing manufacturer of gearboxes, GGT GMEINDER GETRIEBETECHNIK GmbH has already contributed to many innovations and changes in the railway industry.

The challenges of climate-neutral passenger and freight transport and the operator's desire for increasing service life and the lowest-possible maintenance costs represent a major challenge for all manufacturers in the industry, in which we are breaking new ground

to make our products more durable and low-maintenance. With the GGT GearSaver® we combine our immense experience in railway gearboxes with particularly reliable and accurate measurement technology for a completely new approach to continuously

monitoring the condition of railway gearboxes.

The GGT GearSaver® system has been designed to monitor and evaluate the condition of the gear oil and to not only detect any damage as early as possible,



processes. For example, inspection effort can be spared and condition-based maintenance planning can be implemented by specifying the exact oil levels in the gearboxes

Thanks to the comprehensible and clear reporting of the GGT GearSaver® system, all measuring data are visually displayed to the operator. A specialist at GGT GMEINDER GETRIEBE TECHNIK GmbH evaluates these data and gives recommendations for action. In addition to the comprehensive reports, important measured variables are available at any time in an online portal.

By means of the GGT GearSaver® system, GGT Gmeinder GETRIEBE TECHNIK GmbH provides operators with a completely new and measurement data-based solution for preventive maintenance, which saves valuable resources, minimises or even prevents damage incidents, and reduces maintenance costs.

but also to prevent it, if possible. The overwhelming majority of all damage to gearboxes is caused by missing or incorrect lubrication, which can be avoided by continuous monitoring and timely replacement of the oil. As a multi-criteria sensor, the GGT GearSaver® monitors a large number of relevant physical quantities that provide information about the condition of the gear oil.

Monitored parameters:

- **Operating temperature of the oil**

To prevent excessive ageing of the oil due to excessive temperatures

- **Relative humidity of the oil**
To prevent contamination of the oil by water or any corrosion damage

- **Oil level in the gearbox**

To avoid damage caused by insufficient lubricant in the gearbox

- **Oil conductivity**

To prevent any damage due to operation of the gearbox with old oil and contamination by foreign substances

- **Measurement and binding of ferromagnetic particles**

To prevent any damage caused by abrasion particles and for early detection of damage symptoms

The comprehensive data collected by the GGT GearSaver® not only prevents damage, but also simplifies and monitors periodic maintenance



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