



# Laboratory services Assessment of transformer conditions



## **Electrical Oil Services can assess the condition of your transformers**

The quality of the insulating oil has to be measured on a regular basis in order to ensure operational safety of the oil-filled electrical equipment. In case of deviations from the standardised limit values, the operational safety and lifetime of the transformers inevitably decreases.

With our many years of experience and based on key findings of our laboratory services, we are in the position to offer you a comprehensive assessment of the condition of your insulating transformer oil. These results can be used as a starting point for making well-founded decisions about the maintenance measures to be carried out.

Electrical Oil Services offers you regular tests in accordance with DIN EN 60422 assessing the electrical, physical and chemical properties of your insulating oil. You will receive a comprehensible, summarised condition assessment from us upon completion of the examination. Our technical service is at your disposal for further explanations of the individual parameters.

### We offer you the following insulating oil test measures according to DIN EN 60422:

Appearance and determination of the colour number	DIN ISO 2049
Determination of the breakdown voltage	DIN EN 60156
Determination of water content	DIN EN 60814
Determination of acidity	DIN EN 62021-1
<ul> <li>Determination of dielectric loss factor (tan δ)</li> </ul>	IEC 60247
Inhibitor determination and oxidation stability	DIN 60422
Determination of interfacial tension Ring method	DIN EN IEC 62961

### In addition, we carry out the following analyses for you:

0	Gas-in-oil analysis	DIN EN 60	0567
0	Furfurol analysis	DIN EN 61	L198
٥	Determination of PCB content	DIN EN 12766	-1, -2

### Contact us today for an accurate condition assessment of your transformer.



#### **About EOS**

Electrical Oil Services (EOS) is a Haltermann Carless Group company and a leading supplier of both regenerated and unused electrical insulating oils and associated services in Europe. EOS specialists have 70 years' experience in the production and marketing of insulating oils and supply both large and small customers in the electricity distribution industry with tailor-made solutions.

With its three locations in Europe EOS is in the position to offer a complete transformer service package to large and small customers in the electricity distribution industry all over Europe.



### **Electrical Oil Services**

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