

About EOS

Electrical Oil Services (EOS) is a key brand of HCS Group GmbH and a leading supplier of both regenerated and unused electrical insulating oils and associated services in Europe. EOS specialists have 60 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.



Electrical Oil Services

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Mobile Transformer Regeneration Services

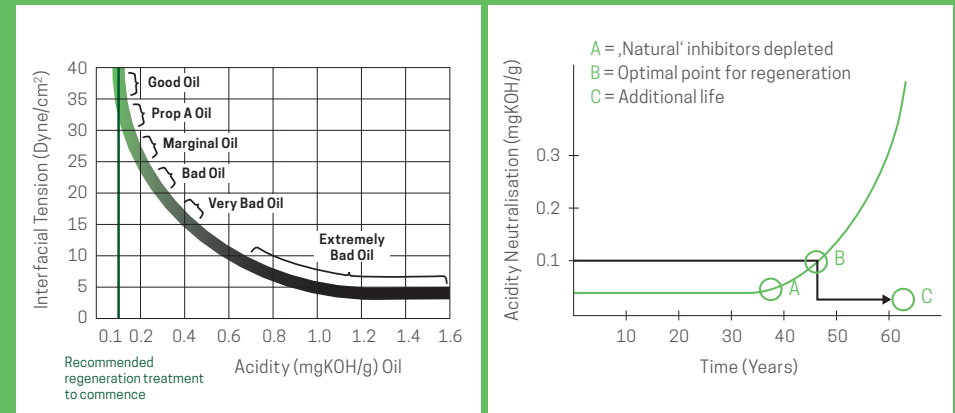
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Transformer Regeneration Services with EOS Mobile Regeneration Unit (MRU)

- ◆ Treats the whole insulation system, not just the oil
- ◆ Removes aging materials such as acids, peroxides and sludge
- ◆ Significantly extended transformer life
- ◆ On-load, off-load or de-energised operation with extensive safety features
- ◆ Added inhibitors replace depleted natural antioxidants and extend oil life
- ◆ Full technical analysis completed by EOS engineers prior to regeneration process
- ◆ Comprehensive on-site laboratory tests in own on-board unit
- ◆ Full test report and follow up



Insulating oil condition assessment



Comparison of neutralisation value versus interfacial tension

Acidity over time

Specifications

Nominal flow rate [l/h]	5,000
Adsorbent material	Bauxite
Oil regenerated per day before reactivation [l]	40,000
Heating [kW]	200

Typical results

Acidity [mgKOH/g]	< 0.01
Dielectric dissipation factor @ 90 °C	< 0.005
Interfacial tension [mN/m]	40
Breakdown voltage [kV]	> 60
Water content [mg/kg]	< 5
Elemental sulphurs	Non-detectable
Mercaptans	Non-detectable