

TRANSFORMERS AND ROTATING MACHINERY

Why are oil analyses so important?

PREVENTION OF TRANSFORMER FAILURES

The transformer is a crucial link in any electrical network. A sudden breakdown usually goes hand in hand with unforeseen maintenance costs, investments in new equipment, and production interruptions.

The **insulating oil** in a transformer says a great deal about the actual condition of the transformer as well as its remaining lifetime. Accurate information about the oil makes it possible to anticipate potential failures and put in place a precisely targeted maintenance and/or replacement plan.



REDUCED MACHINERY WEAR AND CONTAMINATION

Failure of rotating machinery such as gas and steam turbines and gearboxes causes huge costs from lost production and replacement or maintenance.

A regular analysis of the **lubricant oil circuit** can determine if lubrication is still sufficient and if any abnormal machinery wear or varnishing is developing. This enables the planning of optimal maintenance actions such as oil replacement or filtering, which reduce wear and sludge formation.



TRANSFORMERS

> Insulating oil

- Electrical insulation
- Cooling
- ... and information carrier

> Insulating paper

- Insulation windings

ROTATING MACHINERY

> Lubricant oil

- Lubrication
- Elimination of contaminants
- Corrosion protection
- ... and information carrier

HOW IT WORKS?

All of our oil analysis services, for both insulating oils and lubricant oils, encompass four steps:

Sampling > Analysis > Interpretation > Recommendation