

## Complete Equipment Analysis

Magnetech is prepared to offer the highest quality analysis for your transformer needs. Our goal is to increase your operational excellence by making sure that your equipment is in peak condition through detailed examination of oil samples.



Traces Found In Oil	Possible Causes
<i>Methane, ethane, ethylene, and small amounts of acetylene</i>	<i>Thermal condition involving the oil</i>
Hydrogen, methane, and small amounts of acetylene and ethane	Partial discharge
<i>Hydrogen, acetylene, and ethylene</i>	<i>Sustained arcing</i>
Carbon monoxide and carbon dioxide	Thermal condition involving the paper
<i>Hydrogen</i>	<i>Corona or low energy electrical discharge</i>
Acetylene	High energy arcing
<i>Ethylene</i>	<i>Severe localized over heating or low energy arcing</i>
Ethane	General overheating
<i>Methane</i>	<i>Corona or overheating</i>
Carbon monoxide	Cellulose overheating

EQUIPMENT ANALYSIS PACKAGES	Premium	Premium Plus
Neutralization number	✓	✓
Interfacial tension (IFT)	✓	✓
Relative density (specific gravity)	✓	✓
Color	✓	✓
Visual Examination	✓	✓
Dissolved gas analysis (DGA)	✓	✓
Dielectric strength (disk electrodes)	✓	✓
Karl Fischer moisture (KF)	✓	✓
<i>Liquid power factor (PF)</i>		✓
<i>Dissolved metals (ICP)</i>		✓
<i>Oxidation Inhibitor Content (DBPC)</i>		✓



**We're Standing By To Maximize Your Operations**  
Need Other Equipment or Services? We can handle all of your rotating equipment and power system needs. For quality service at your site or in one of our nationwide locations, contact your local Magnetech sales representative.

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