

OIL CONDITION MONITORING

TRANSFORMER OIL TESTING

Providing total confidence in the quality and reliability of transformers with Intertek's TransoilCHECK™ programme.





TransoilCHECK™ - Total Quality Assurance for Transformers

TransoilCHECK™ monitors the condition and change in transformer oil quality, helping to identify potential transformer oil related failures before they occur, reducing disruptions, keeping unscheduled maintenance to an absolute minimum and therefore reducing the risk of potentially expensive downtime.

Intertek's TransoilCHECK™ expertise helps to prevent transformer failure which is vital to the safe and reliable operation of any electrical network.

Preventing Transformer Failures

Preventing transformer failure is vital to the safe and reliable operation of any electrical network.

Transformer breakdowns usually cause power outages and interruptions. To compound the damage, unforeseen repair and maintenance costs are incurred, and new unexpected equipment investment is required.

Testing the condition and quality of transformer insulating oil provides data showing the actual condition of the transformer, and its remaining lifetime. Information from oil analysis can help anticipate potential failures, and guide precisely targeted maintenance and replacement plans.

Transformer oil testing is a proven loss prevention technique that should be a part of any condition based predictive maintenance program. Essentially an early warning system, transformer oil testing allows management to identify maintenance priorities, plan work assignment schedules, and order necessary parts and materials.

Transformer Oil Tests

- Appearance
- Color
- Corrosive Sulphur
- Density
- Dielectric breakdown voltage
- Dissolved gas analysis
- Furfural and related compounds
- Interfacial tension
- Kinematic viscosity
- Oxidation Stability
- Sediment, sludge
- Specific gravity
- Suspended particles in oil, visual
- Trace analysis
- Water content
- Additional expertise

Transformer Oil Integrated Testing Solutions

TransoilCHECK™ offers accredited transformer lubricant system testing. Test

reports provide trending information and fully interpreted results, with easy-to-understand summaries and recommendations. With a single point of contact, Intertek provides convenient access to a full range of expert global testing, consultancy, and problem solving capabilities, including mode-of-failure and forensic analysis.

Quality Analysis & Reporting

TransoilCHECK™ is a key monitoring tool to maximise the reliability and availability of your transformers. As a fully integrated solution, TransoilCHECK™ supports all aspects of your transformers' oil systems, and gives you simple, easy access to Intertek's full range of related services.

Transformer Oil Quality Services

- Accredited testing and fast turnaround times
- A full suite of transformer fluid analysis services
- 24 hour support with a dedicated on-call hotline for urgent requirements
- Online access to your test reports
- A single point of contact for all our testing and expert consultancy services
- Additional resources and capabilities

Type Test Services for Transformers & Electrical Power Equipment

Type Test Certificates provide evidence a transformer is compliant to safety standards and regulatory specifications (e.g. IEC 60076). Intertek works with utilities, authorities, and others to help ensure that each document issued is accepted, and provides assistance in maintaining procurement project standard and technical updates. Certificate, mark, and listing options are issued for individual markets. ASTA Type Test Certification provides independent compliance for samples tested against product safety standards. Variations of this certificate, such as 'Certificate of Verification by Test', conform to standard requirements IEC 61439. ASTA Type Test Certificates are issued, sealed, and bound, to prevent misuse.



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