

## Overview

Operating from our purpose-built laboratory and backed by over 30 years of experience in providing specialist oil, insulation and SF<sub>6</sub> gas testing and diagnostic services. Powerlink's Laboratory Services provides a comprehensive transformer, reactor and high voltage oil-filled plant monitoring and condition assessment service.

The analytical tests performed by the laboratory enable you to make informed decisions on how best to maintain and operate your valuable electrical assets. If further technical advice is required, engineering plant specialists are available to help you determine the optimum strategy. We are your partner in extending the life of your transformers, reactors and high voltage oil-filled plant.

Our laboratory is staffed by a team of dedicated, experienced and qualified chemists and scientists. We are supported by professional engineering staff who are industry recognised experts in the areas of transformer, reactor and high voltage plant design, diagnostics, asset management and their cumulative affects on network performance.

We offer customers training courses in interpreting oil and insulation test data and how this can be applied to assessing the maintenance, serviceability and residual life of a range of high voltage substation plant.



## Laboratory Services — Powerlink Queensland

### Registered Office

33 Harold St Virginia  
Queensland 4014  
Australia

### Postal Address

GPO Box 1193 Virginia  
Queensland 4014  
Australia

**Email** [OilTestingServicesRequests@powerlink.com.au](mailto:OilTestingServicesRequests@powerlink.com.au)

**Web** [www.powerlink.com.au](http://www.powerlink.com.au)

### Telephone

(617) 3860 2260  
(during business hours)

### Facsimile

(617) 3860 2321

### After Hours

1800 240 408



**SAFE FOR LIFE**  
Everyone. Everywhere. Everyday.



## Laboratory Services



Innovative Solutions. Cutting Edge Techniques.



## Laboratory Services — Working in your best interests

### An industry leader

- Purpose-built laboratory
- Confidential, independent and impartial diagnosis
- Expert advice and technical support
- Emergency service available 24/7
- Comprehensive condition assessment
- Customised special insulation investigations and research
- Customised reports and data formats
- Industry-approved sample containers
- Oil and insulation sampling instructions
- Training in oil and insulation sampling procedures

### Independent and impartial advice

We have no ties to manufacturers or maintenance service providers meaning there is no potential conflict of interest. You can be assured of high quality advice that is independent and unbiased. Our focus is on providing clear and accurate diagnostic information and recommendations that provides you with optimum technical support for your transformers, reactors and other high voltage plant.

### Polychlorinated biphenyls (PCB)

We are a NATA accredited laboratory with over 15 years' experience in PCB detection and analysis.

### Comprehensive condition assessment

The condition of the internal insulation system of oil-filled high voltage plant can be assessed by performing Dissolved Gas Analysis (DGA), oil quality screens and testing for Furanic compounds.

Our extensive database of test histories for transformers, reactors and other high voltage plant ranging from 415 volts to 500,000 volts and up to 1,500MVA provides valuable reference data for analysis, diagnosis and benchmarking.

### Transformer life estimation

We are a leader in developing algorithms for estimation of remnant life and failure probability by utilising DPV, Furan and DGA test data collated from several thousand transformers. With such knowledge, appropriate strategic risk management techniques can be taken.

### Customised reports and data formats

Reports can be customised to your requirements and results can be supplied in any common data format. You can access detailed current and historical reports to help monitor and maintain your transformers and other high voltage plant at Powerlink's website, [www.powerlink.com.au](http://www.powerlink.com.au).

### Confidentiality of your data

In conforming with our quality assurance procedures and our customer's commercial business needs, all customer test data is kept strictly confidential and is only provided to a third party if the original customer/owner of the data instructed us in writing to do so.

### Round the clock emergency service

Laboratory services are available 24 hours a day, 7 days a week. Our highly trained team is always available to assist and advise in any urgent situation. Conveniently located close to Brisbane Airport, our team can pick up urgent samples directly from the airport with prior arrangement, reducing potential transport delays.

### Fast turnaround

For non-urgent situations, average turnaround time for DGA and oil quality tests is 5 working days from the receipt of the oil sample. Every effort is made to ensure that a maximum of 10 working days is not exceeded.

If analysis of the oil samples is urgent, they are given priority and analysed immediately.

### Sample containers

IEC approved sample containers are supplied to customers along with labels for recording sample details and sampling instructions.

### Simple price structure

One price covers the supply of containers, sample testing, test data storage, maintenance and custom reporting.

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