



Summary

Industry:	Metals
Application:	Transformer Repair
Actual Saving:	£n/a
Payback Period:	n/a



Transformer Repair for Steel Producer

ERIKS ensure costly failure is avoided

ISSUE

After taking a routine insulating oil sample from a Steel producing customer's 3000 KVA transformer, a dissolved gas analysis test was undertaken by ERIKS Power Services team who found high traces of hydro carbon gas in the sample. This indicates that electrical activity was causing a high temperature within the transformer case from the transformer windings. To investigate this potential problem ERIKS booked to attend site in the first few days of the Steel Companies annual two week shut down. On attending site, draining down the oil out of the inside the transformer and removing the lid, the internal windings and tap changer were inspected, and surprisingly, a bad cable connection was found at the base of the windings. Due to the time constraints, its was considered undertaking the remedial work on site. But because the roof would have to be removed from the building to lift the windings out of the transformer tank the customer was not keen for this to be performed.

SOLUTION

ERIKS Power Services team disconnected the transformer, jacked out of the sub station, lifted it onto a low loader and transported it to one of ERIKS 26 workshops. The lid was again removed and the windings lifted out of the tank. A repair was undertaken, the windings fully proof tested and on passing the test returned to the tank. The insulating oil was filtered by ERIKS own mobile filtration machine to remove any particles and water content and returned to the tank.

The transformer was returned to site, jacked back into position, re-connected, electrically tested, commissioned and made ready for the plating mill to start work on the Monday after the shutdown period.

Due to the fast response by ERIKS to a potential catastrophic failure 120 people were able to return to work without the knowledge that they could have been laid off with loss of earnings and loss of production if ERIKS had not identified this fault.

OTHER BENEFITS

- ERIKS Power Services ensured a potentially catastrophic failure avoiding any danger to employees
- If the Transformer had failed the loss of production would have been huge

FURTHER COMMENTS...

ERIKS Power Services ensure that you meet duty holder obligations maintain your HV network, not only ensuring you meet legislations but that you avoid costly downtime but also serious injury to employees.

MORE INFORMATION

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