

Background

Our client carry out refurbishment and maintenance of trains, during a routine maintenance inspection a number of leaks were found on the traction transformer.

Normally such a repair would be carried out by removing the transformer from the train and transport it to the manufacturer for repair and return. This would incur significant expense as well as taking the train out of service for a number of weeks.

Solution

Eden Transformer Oil were contracted to handle all oil works and re-gasket the leaking components in situ.

To enable access to the leaking components the oil was removed to clean drums on EU specification sump pallets. The high voltage cable was removed and the bell housing disassembled in to its individual components, Eden have specialised gasket cutting equipment to allow bespoke gaskets to be cut on-site.

The oil circulation pump had to be removed for re-gasketing and inspection. As a heavy component a small lifting platform was used to lower the pump and then the gaskets fitted. Had the pump been found faulty or damaged it could have been replaced as part of the works.

The cooling bank flange was re-gasketed.

The oils were purified to far exceed the requirements of BS EN 60422:2013. The train was inspected by the maintenance manager and the train returned to service the following day.



About Us

Eden was formed by Alan Denbow and Eddie Gregory in August 1985.

Former employees of Burmah Castrol, they realised that the vast majority of electrical engineers were simply replacing expensive transformer oil without fully appreciating the additional technical benefits of purification to the electrical equipment, and that Eden could achieve a more convenient solution at a significantly lower cost.

In more recent years the treatment of transformer oil is the first choice for a cost effective and efficient maintenance program: the increasing cost of new oil, the importance of productivity and equipment downtime, coupled with the environmental benefits of avoiding the transportation of hazardous waste and use of virgin products, are all part of the equation.

As well as providing on-site transformer oil treatment, if needed, Eden can supply and install new or reconditioned insulating liquid and provide all of the on and off-site sampling and analysis to ensure transformers are supervised and maintained according to British Standards (BS EN 60422:2013) and insurance underwriters requirements.

Our online store is ideal for customers requiring smaller quantities of insulating liquids, desiccant breathers, spill kits and other regularly used consumables. All of our products are sourced in the UK and used on site every day by Eden staff, so they are tried and tested in the field.



Registered Address

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Waste Carrier License: CBDU1214230 **Waste Storage Permit :** EPR/BB3506LF