



Enervac™
INTERNATIONAL ULC
A CLARK-RELIANCE COMPANY



Online Transformer Dry-Out – Mining Customer, Eastern Canada

Problem

In an Eastern Canada mining location with a large electrical infrastructure, the power transformers which contain copper windings, oil for cooling and insulation and paper insulation (typically cellulose) have a primary enemy – MOISTURE. Moisture ingress into a transformer can be caused by many factors but if left unchecked, high moisture levels can lead to a catastrophic failure.

The rectifier transformer oil volume was 25,000L. The customer usually would run with a large 1200-1800 Gal/hr degasser. Heating the oil inside the TFO, draining the degassifier removing moisture for about 12 hours, then starting the process again. This means the transformer must come offline.

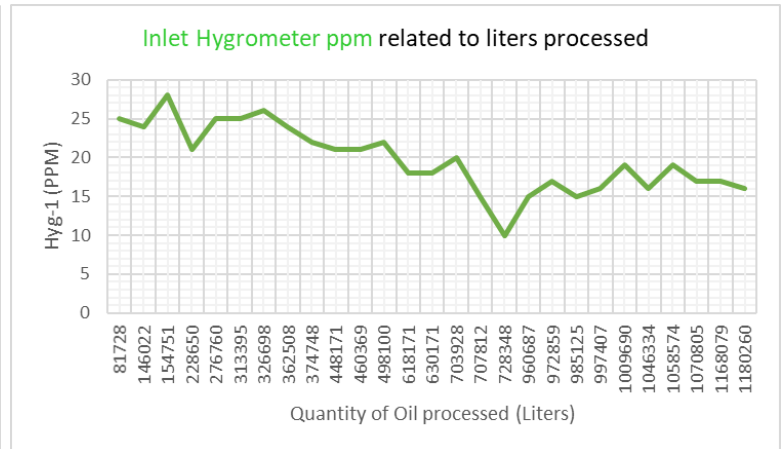
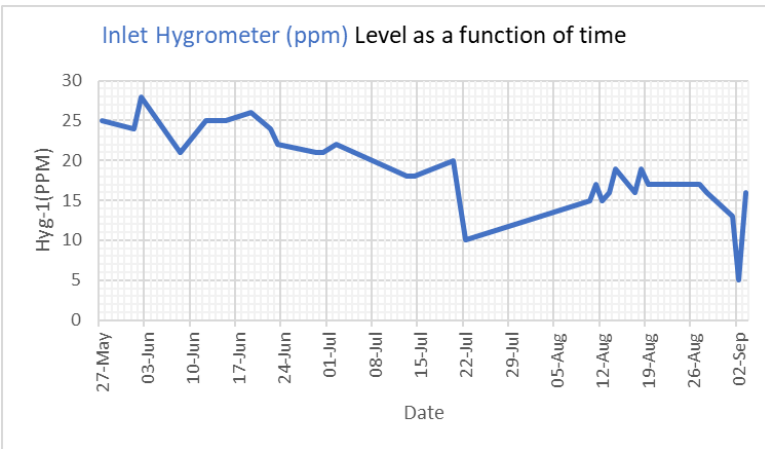
Solution

The Enervac Model ENERDry Transformer Dry-Out System 150 was the proposed solution. This system only needs a short time to connect and can be utilized to dry the transformer to acceptable levels without taking it out of service.

The moisture measurements were taken at the inlet and the outlet on a continuous basis using the two built in Doble hygrometers. The entire process was monitored remotely via cellular connection.



Results: Starting water was **35 PPM** – After 7 weeks of dry-out, the ending moisture was **3 PPM**.



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