

TESTING DISSOLVED GAS ANALYSIS ON TRANSFORMER OIL IN PLTA WONOGIRI

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ABSTRACT

The transformer oil is one part of a power transformer that functions among others as a cooling medium and as an isolation medium on the traJo. If there is a disturbance in the transformer as a result of thermal disturbance or electrical disturbance, there will emerge flammable gases in transformer oil. By knowing the type and amount of gas present in transformer oil, it is possible to know the possible disturbance. This method is known as DGA (Dissolved Gas AnalyUs). *DGA test is analysis transformer condition conducted based total dissolved gas in transformer oil. In this paper use four methods for analysis transformer failure that is method TDCG, Key Gass, Roger's ratio, Ratio doernenburg. This method can show interference with clearer and details and a method with a closed system so that reduce the percentage of cases outside the criteria or error analysis.* Dissolved gas analysis is an oil test by determining the failure of dissolved gas in oil so that it can be immediately followed up. Indication of failure arising with thermal-cellulose at low temperatures between 150 ° C - 300 ° C. And the results on moisture content and the breakdown voltage of the transformer oil are in poor condition, it is necessary to purify or filter.

Key word : DGA (Dissolved Gas Analysis) Method, Oil Transformer