

## **Reconditioning and reclaiming of Transformer oil**

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Reconditioning and reclaiming are not same.

If the oil BDV and water content are high, but other parameters like IFT, power factor are within limits) the oil can be reconditioned by filtering out particles and removing moisture in a vacuum filter machine.

If acidity, IFT and power factor are more than their limits, reconditioning of oil will not improve its condition. Then reclamation of oil may be done where hot oil is sent through a bed of Fuller's earth where ( a sedimentary clay that contains a high proportion of clay minerals which could absorb dust and dirt ) all polar compounds from ageing of oil are removed by the bed.

Synthetic oxidation inhibitors ( improve the oxidation stability of oil, DBPC -Ditertiary-Butyl Para Cresol) and DBP -Ditertiary Butyl Phenol) are added to oil after the above processing. The reclaimed oil is almost equal to new oil and have all the required qualities. But it appears that this process is not widely used in our Utilities.