

TRANSFORMER OIL REGENERATION MACHINE



Transformer Oil Regeneration/Polishing system developed by Sumesh is an advanced machine that removes the odour from the distilled Transformer oil, apart from a drastic improvement in colour. This machine prevents industries from discarding the contaminated transformer oil, lube oil, hydraulic oil, turbine oil etc after removing the carbon content present in these oils after distillation process. This is an economical and an environmental friendly alternative to clay/hydrogen processing plant.

RE-GENERATION PROCESS OF USED TRANSFORMER OIL

Process Description

Oil Filtration by Activated media is the final polishing process in re-refining of used oil. The process consists of small adsorption columns loaded with a bed of activated media. Generally distilled oil fed to the top of the media bed and purified oil is collected from the bottom of column.

1. Regeneration of used Oil:

Used Oil without any free water can be fed directly to the oil Polishing Unit. We will get the final Product once the oil starts coming out from the fixed bed percolation columns. This is the oil quality we can get after passing the oil through fixed bed percolation columns. Used Oil Photo is shown in the beaker (Before) shows the quality of oil going to be feeded in our Oil Polishing unit. The final result shall be as per the beaker shown after passing through the percolation columns.

2. Reactivation of Media:

This is the immediate step after regeneration of oil to ready the fix bed columns for the next batch process. Stop the regeneration of oil and purge the hydrocarbon out from media with the help of vacuum. Later, we reactivate the media under controlled temperature. This reactivation is thermal reactivation without using any chemical. Eventually, we have burned off the adsorbate from the activated media filled inside the columns. Exposure of activated media to elevated temperature will affect the active surface adversely.

3. Cooling:

Temperature of media/adsorbent inside the columns is high after reactivation hence it needs to be cooled down to below 80 C before take the columns for the production of oil. Activated Media can be used more than 250 cycles, depends on Initial quality of oil.



Before



After



Sumesh Petroleum Pvt. Ltd.
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