

ABSTRACT

The use of lubricating oil is increasing day by day with the increasing number of motorized vehicles. Various efforts have been made to increase the production of refined petroleum, one of which is by recycling used oil to be used as diesel fuel. This study uses an initial heating temperature of $\pm 300^{\circ}\text{C}$. Then, given a treatment in the form of a mixture of sulfuric acid (H_2SO_4) with a certain concentration. Then, treated in the form of a mixture of sodium hydroxide (NaOH) with the same concentration as the concentration of sulfuric acid (H_2SO_4) to remove the acid level in the solution given sulfuric acid (H_2SO_4). Then, the used lubricating oil that has been treated can be checked for its characteristics with the applicable oil standards.

Keywords: *used lubricating oil, sulfuric acid, sodium hydroxide*