

ABSTRACT

This study aims to study the performance of diesel fuel motors using diesel fuel and a mixture of diesel fuel with plastic fuel. The fuel has a mixture of 95 ml diesel oil 5 ml plastic waste oil, 90 ml solar 10 ml plastic waste oil, 85 ml solar 15 ml plastic waste oil, 80 ml solar 20 ml plastic oil waste. The results showed an increase in performance but the power produced was low by using a mixture of diesel fuel with plastic fuel oil among others, the effective shaft power produced by mixing diesel fuel with plastic oil fuels produced lower power than pure diesel fuel, but Fuel Consumption (SFC) on diesel fuel mixed with plastic waste oil is less than pure diesel fuel, compared to fuel (AFR) in solar mixed fuel with plastic waste oil is higher than the material pure diesel fuel, diverts the efficiency of solar mixed fuels with oil plastic waste higher than pure solar fuel, replaces thermal efficiency in solar mixed fuels with higher oil plastic waste compared to pure diesel fuel.

Keywords: Performance, Diesel Fuel Motor, Plastic Waste Oil