

Performance Testing Of Different Blends Prepared By Mixing Chicken Fat Biodiesel, Tire Oil And Diesel

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Since the birth of Internal Combustion engine, the requirement of fuel based sources has hit the market more as compared to the food resources. Food versus fuel is the dilemma regarding the risk of diverting farmland or crops for biofuels production to the detriment of the food supply. New technologies are being produced on regular basis to counter the petroleum based fuels. Biodiesel has become a widely accepted fuel due to its nature of producing a green and viable fuel for the environment. In this experiment waste tire oil is obtained to produce the green fuel. The tire oil was produced from scrap tires through pyrolysis and pre-treated before blending with biodiesel and diesel fuels. The fuel blends contained 10% and 15% tire oil. Recycling the scrap tires to produce tire oil via pyrolysis is a promising method for reducing the impact of this waste material to the environment. Once pre-treated by filtering and desulfurization, it can be utilised as an alternative fuel for diesel engines. Oil with 15 % of tire oil had better lubrication qualities, cheaper fuel and less viscosity as compared to 10 % tire oil.

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