

Determination of Various Properties of Biodiesel Produced from Different Feedstocks

Authors : Faisal Anwar, Dawar Zaidi, Shubham Dixit, Nafees Ahmedii

Abstract : This paper analyzes the various properties of biodiesel such as pour point, cloud point, viscosity, calorific value, etc produced from different feedstocks. The aim of the work is to analyze change in these properties after converting feedstocks to biodiesel and then comparing it with ASTM 6751-02 standards to check whether they are suitable for diesel engines or not. The conversion of feedstocks is carried out by a process called transesterification. This conversion is carried out to reduce viscosity, pour point, etc. It has been observed that there is some remarkable change in the properties of oil after conversion.

Keywords : biodiesel, ethyl ester, free fatty acid, production

Conference Title : ICMAE 2016 : International Conference on Mechanical and Aerospace Engineering

Conference Location : Jeddah, Saudi Arabia

Conference Dates : January 26-27, 2016