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PERFORMANCE AND EMISSION PARAMETERS OF COMPRESSION-IGNITION (CI) ENGINE FUELLED WITH WASTE OR USED TEMPLE OIL BIODIESEL AT BLENDS

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The biodiesel as a renewable fuel has been recognized as one of the best alternative fuel for diesel engine in the present world. Ignition pressure is the major influencing parameter for the performance and emission of diesel engine. Biodiesel from waste or used temple oil is mainly obtained cheaply from trans-esterification process as compared to biodiesel produced from various resources. Due to many mythological and religious beliefs, thousands of devotees pour oil over the idols in many temples in India, such as Hanuman and Shani temples. Most of the poured oil of the temples get wasted. In this study, the investigation of performance and combustion characteristics of biodiesel of used temple oil is focused with different blends of biodiesel like B100, B40, B30 and B20 in Compression Ignition engine, operating at injection opening pressure (IOP) of 200bar

Biography

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