

# Effect of Mixed Biodiesel fuel on the Efficiency of Diesel Engines: A Review

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## I. INTRODUCTION

The enormous increase in the number of automobiles and the increasing demand electricity has resulted in greater demand for petroleum products. The increasing demand for petroleum products has led to the oil crisis in the recent times. Therefore, there is an urge for finding out a replacement and attention has been focused on developing the renewable or alternative fuels to replace the petroleum based fuels for vehicle usage.

Fossil fuels produced by underground heat and pressure are consumed more rapidly than being created. Insufficient quantities or unreasonable price of petroleum fuels deeply concerns us, whereas the renewable energy is a promising alternative solution because it is clean and environmentally safe. Due to petroleum fuel, pollution and accelerating energy consumption have already affected equilibrium of the earth's landmasses and biodiversity. Carbon monoxide (produced when combustion is inefficient or incomplete), carbon-di-oxide (a product of the combustion of materials with carbon in them), hydrocarbons (produced as a result of poor fuel ignition), nitrogen oxides (produced when combustion occurs at very high temperatures), sulfur oxides (produced when elemental sulfur is present in the fuel), and particulates that are generally produced during combustion are other specific emissions of concern. So it is time to search for its alternative fuels.

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