Title: Advantages of Biodiesel Fuel Over Typical Diesel Fuel

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Summary:

The United States uses billions of gallons of diesel fuel every year. As a result of combustion of this fuel tons of pollutants are dispersed into the air annually. Toxic air pollutants cause coronary and pulmonary problems, systemic damage by disrupting the functions of the endocrine system, which regulates hormones, the immune system, and the nervous system. The emissions of these toxic substances could be reduced a great deal through the use of biodiesel fuel as a substitute for the typical diesel fuel. In this experiment it was proven that the biodiesel fuel, made through process of tranesterification of soybeans, is more environmentally friendly than typical diesel fuel, but just as efficient.

The outcomes of the experiments indicated the use of biodiesel fuel under the same conditions results in the 26% reduction of particulate matter and hydrocarbon emissions and an 11% reduction in the carbon monoxide emissions, but only a .02% reduction in the carbon dioxide emission, when compared to the use of typical diesel fuel. However, the two fuels are just as efficient.

Market Segment: General Interest

Accessibility: Public

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