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Combustion efficiency, engine performance and toxic gas emissions linked to blends of petro-diesel and biodiesel

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nterest in biodiesel as a fuel additive has grown considerably and has become an essential part of global sustainable development. The physical and chemical properties of biodiesel affect combustion processes and can improve engine performance. Differences in biodiesel properties could lead to a distinction in fuel injection, fuel combustion, performance and emission features of the diesel engine. Certain features of engine emissions such as smoke opacity and noxious gases, CO, NOx and SO, can be appreciably reduced by the use of specific blended mixtures of biodiesel and petro-diesel. In addition particular physical properties such as biofuel density, viscosity and bulk modulus are associated with engine performance and gaseous emissions. Extensive research has been undertaken on the production of biodiesels from a variety of feedstock and the characteristics of biodiesels on engine performances and emissions have gained widespread attention and are the subject of this talk.

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