

Title: Biodiesel Particulate Emissions and Fuel Storage

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Summary:

The concentration of biodiesel blends with diesel fuel effect the particulate emissions of internal combustion engines. One general tendency can be observed: blends with a biodiesel content up to 50% show a tendency of a slight (5% up to 30%) reduction in particulate emissions compared to diesel fuel, when used in diesel engines. An optimization of fuel and engine parameters can result in a reduction of particulate emissions from auto engines, when biodiesel is properly added to conventional diesel fuel.

This report helps answer the question of storage stability of biodiesel through descriptions of general experiences from biodiesel projects, special issues like temperature sensitivity, oxidation, materials compatibility, and polluting effects of storage, and ongoing research. It is concluded that the storage of biodiesel does not have to be problematic, when care is taken of fuel properties and material compatibility.

Market Segment: General Interest

Accessibility: Private

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