

Emission Performance of Modern Diesel Engines Fueled with Biodiesel

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Vehicle and Engine Testing

Motivation

- Lack of data showing biodiesel's impact on emissions in modern diesel engines
- Lack of data showing how DPF and NAC regeneration events impact fuel economy and emissions

Approach

- Testing of VW Jetta, International MaxxForce and Cummins ISB
- Emissions and fuel economy testing during active DPF regeneration events
- VW Jetta operated over 8,000 miles to determine frequency of DPF regen
- Emissions testing conducted with 4 different petroleum diesel fuels and 5 different biodiesel feedstocks

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