



Biodiesel Emissions Testing with a Modern Diesel Engine – Equipment Only

**Cooperative Research and Development
Final Report**

CRADA Number: CRD-10-399

NREL Technical Contact: Aaron Williams

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Cooperative Research and Development Final Report

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CRADA Title: Biodiesel Emissions Testing with a Modern Diesel Engine - Equipment Only

Parties to the Agreement: Montana State University

Joint Work Statement Funding Table showing DOE commitment:

Estimated Costs	NREL Shared Resources
Year 1	\$ 5000.00
Year 2	\$ 00.00
Year 3	\$ 00.00
TOTALS	\$ 5000.00

Abstract of CRADA work:

To evaluate the emissions and performance impact of biodiesel in a modern diesel engine equipped with a diesel particulate filter. This testing is in support of the Non Petroleum Based Fuels (NPBF) 2010 Annual Operating Plan (AOP).

Summary of Research Results:

- Testing with a 2009 Cummins ISB to investigate the impact of various biodiesel feedstocks on emissions and fuel consumption.
- Published ASME paper ICEF2011-60106, October 2011

Subject Inventions Listing:

- None

Report Date: 3/20/13

Responsible Technical Contact at Alliance/NREL: Aaron Williams

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