

Title: 6V-92TA DDC Engine Exhaust Emission Tests Using Methyl Ester

Author(s): Leon Schumacher, D. Fosseen, W. Goetz, S. Borgelt, and W. Hires

Publication Date: 1995

Summary:

A 6V92TA Detroit Diesel Corporation diesel engine was fueled on blends of 10, 20, 30, and 40% soydiesel/diesel fuel. The engine was tested in an Environmental Protection Agency (EPA) certification test cell capable of the heavy-duty engine test cycle. A 56.6m³/min (200 cfm) DPF-CVS dilution tunnel, gaseous bench and particulate bench provided full gaseous and particulate emissions data. Fueling with biodiesel/diesel fuel blends reduced particulate matter (PM), total hydrocarbons (THC), and carbon monoxide (CO), while increasing oxides of nitrogen (NO_x). The optimum blend of biodiesel and diesel fuel was a 20/80 biodiesel/diesel fuel blend. Retarded fuel injection timing reduced NO_x emissions while maintaining the other emissions reductions results with a 20/80 biodiesel/diesel fuel blend.

The detailed report can be viewed [here](#).

Market Segment: General Interest

Accessibility: Public

Files Available: this report is not available at this time