

**Title:** Fueling Direct Injected Diesel Engines With 2% Biodiesel Blends

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**Publication Date:** Feb 1998

**Summary:**

The Agricultural Engineering Department at the University of Missouri-Columbia has monitored the fueling of a 1996 Dodge pickup truck equipped with a 5.9L (360 in 3) Cummins engine with a two percent blend of methyl-ester soybean oil (soydiesel/biodiesel) and petroleum diesel fuel (B2) for more than 40,608 miles. The pickup averaged 18.61 miles/gal. Analysis of engine lubrication oil suggested that the engine was wearing at a normal rate. Exhaust emissions were measured at Iowa State University. The black exhaust smoke normally observed when a diesel engine accelerates was reduced each time the engine was fueled with B2, but CO, HC, and NOx were not affected. Although the findings from this study are far from conclusive, the results from this study were positive concerning the use of B2 as a fuel for diesel engines.

**Market Segment:** Premium Diesel

**Accessibility:** Public

**Files Available:** *this report is not available at this time*