Hydrogen as a Supplemental Fuel in Diesel Engines

Anil Singh Bika, Luke Franklin, David B. Kittelson

Department of Mechanical Engineering University of Minnesota Minneapolis, Minnesota

Poster Location: P-16



Hydrogen as a Supplemental Fuel in Diesel Engines

1. Objective

Evaluate engine emissions using diesel and biodiesel with small amounts of hydrogen port fuel injection in a VW TDI



increasing hydrogen

Interesting Findings 2.

concentrations decrease with increasing amount of H₂ input

*BP50 is 50 ppm sulfur diesel and B99 is 99% soy methyl ester biodiesel.