

Key Benefits in Using Ethanol-Diesel Blends

Range of Ethanol Diesel Fuels in Program

Ethanol-Diesel Fuel

7.7 vol% Fuel Ethanol

0.6 vol% Additive

91.7 vol% Regular Diesel

Ethanol-Biodiesel-Diesel Fuel

7.7 vol% Fuel Ethanol

0.6 vol% Additive

20.0 vol% Biodiesel

71.7 vol% Regular Diesel



Summary

- Verified Ethanol-Diesel blends are fully compatible with at least B20
- Quantified Ethanol-Diesel blends consistently provide benefits regarding the key emissions of PM and NO_x vs. “cleanest” ULSD base fuel on a variety of heavy duty engines
- Demonstrated renewable fuel combinations can be complementary
 - B12.3 and B20 can boost PM reduction synergistically
 - Increased NO_x emissions can be ameliorated
- Established after treatment devices with Ethanol-Diesel consistently provide synergistic emissions benefits for all regulated emissions
- Determined Ethanol-Diesel and Ethanol-Biodiesel blends respond to cold flow improver technology

