

BIODIESEL PERFORMANCE

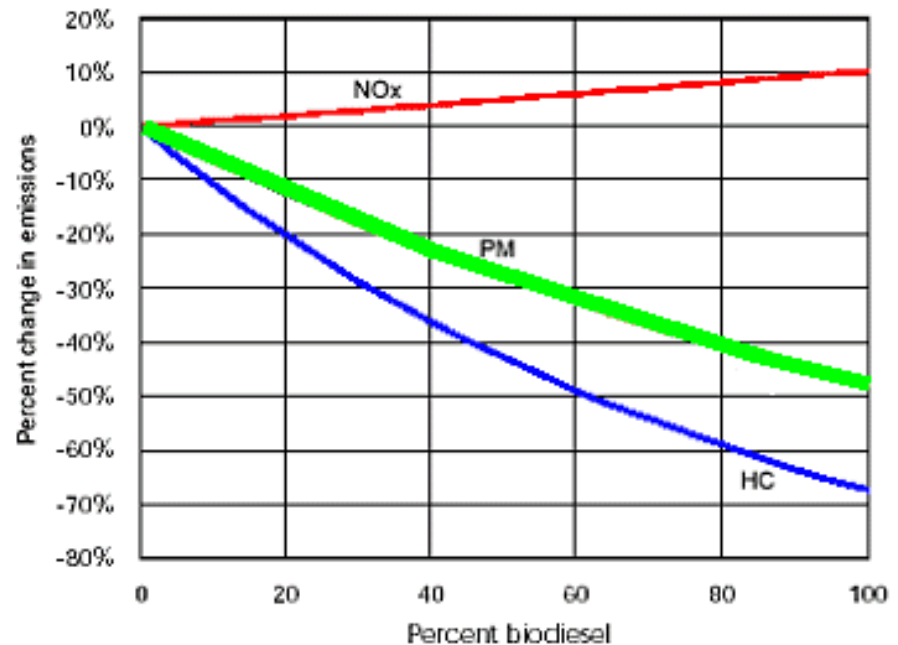
USET, Inc.

Biodiesel Production in Indian Country

What is Biodiesel?

- Fuel made from vegetable oil
- Comes in blends
 - ▣ B100 vs. B20
- Not the same as using Pure Vegetable Oil
- Reduces emissions

Figure 1: Tailpipe Emissions of Biodiesel relative to Conventional Diesel[†]



Source: U.S. EPA

Biodiesel Performance - Overview

- No modification needed to engine
- Cleans engine – need to check fuel filter
- Dissolves natural rubber – may need to check fuel lines
- Gels at warmer temperatures than petroleum diesel

[VIDEO](#)

Blends Over B20

- ❑ Does not meet ASTM standards
- ❑ Degrade rubber faster
- ❑ Will loosen and clog filter immediately if there is high levels of sediment present
- ❑ Stores up to ~6 months
- ❑ At high blends, unburned oil may make its way into the oil pans causing engine sludge problems

Case Study: Hoover, Alabama

- Collect grease from restaurants and community
- 161 vehicles use B20
- 40+ vehicles use B100



Hoover, Alabama WVO to Biodiesel Case Study, EPA
Region 4 Biodiesel Workshop PowerPoint

Questions

