

Trap Grease: From Liability to Asset



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What is Biodiesel?

- Diesel fuel replacement
 - Can run in most diesel engines and home heating systems without any equipment change
- Made from fats, oils, or greases instead of petroleum
- Lower air emissions
- Reduces dependence on foreign oil



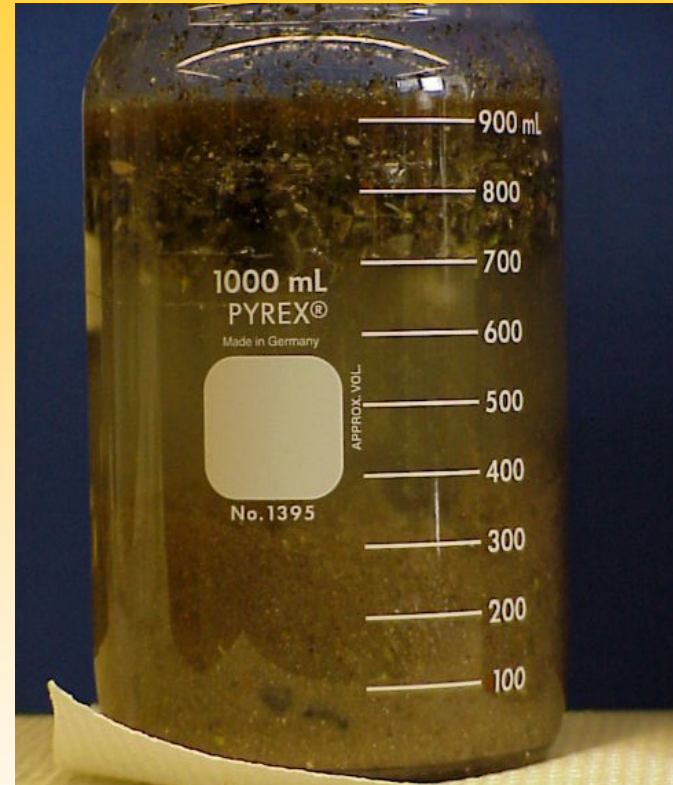
Standard Biodiesel Feedstocks



But There's A Big Difference



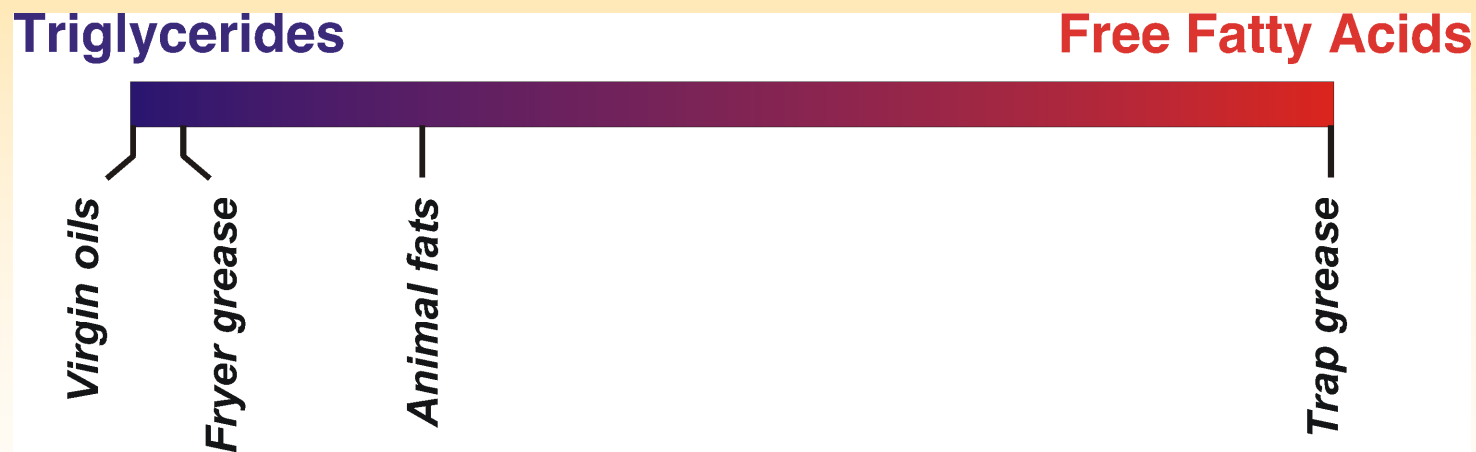
Between this....



...And this

Trap Grease: Chemically Different

- Fats, oils and greases are composed of
 - Triglycerides
 - Free fatty acids (FFAs)
 - Fresh (“virgin”) oils are 100% triglycerides
 - Trap grease is up to 100% FFAs



PFoD's Approach

- Urban model of fuel production from waste
- Pilot plant operating in Philadelphia - scaling up now
- Support from USDA, PA DEP



Process Steps



- Dewater/filter
- Chemical conversion
- Fuel polishing

Fuel Meets National Quality Standard



Other Similar Materials

- Dissolved Air Floatation/Float grease
- High FFA Lard/tallow
- Food processing wastes
- Rendering wastes
- Partially hydrolyzed edible oils



Benefits to Agencies

- PFoD creates a better “disposal” option
- Justifies increased enforcement of municipal trap codes
- Increases public support and awareness of compliance issues
- Reduces sewer overflows
- Reduces grease strain on WWTP



Benefits to Treatment Plants

- Alternative disposal option – cost avoidance strategy
- New revenue streams
- Make your own fuel: fleets, sludge incineration
- Leverage costly infrastructure
- Public relations opportunities



More information

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