

Turning Trap Grease into Gold

Trap Grease --> Brown Grease --> \$\$\$\$



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Overview

- Introduction
- Trap waste collection
- Trap waste processing
- Uses for brown grease
- Brown grease sales
- Summary

Trap Waste Processing

- Grease standards
- Delivering from truck into system
- Heating, settling, and separation
- Draining
- Finishing and storing



Grease Standards

- Brown grease
 - Less than 50% FFA (though in practice, higher)
 - Less than 2% MIU
- Yellow grease
 - Less than 15 % FFA
 - Less than 2 % MIU

Trap Waste Collection

- Collecting trap waste



Delivery From Truck

- Trap waste is pumped from truck into cone-bottomed tank



Heating, Settling, and Separation

- Trap waste is heated to 165°F-185°F
- First separation causes water, trash, and large particulates to fall to the bottom of the cone-bottomed tank



Draining

- A valve at the bottom of the tank is opened and slurry is passed through an expanded metal screen into a waste tank

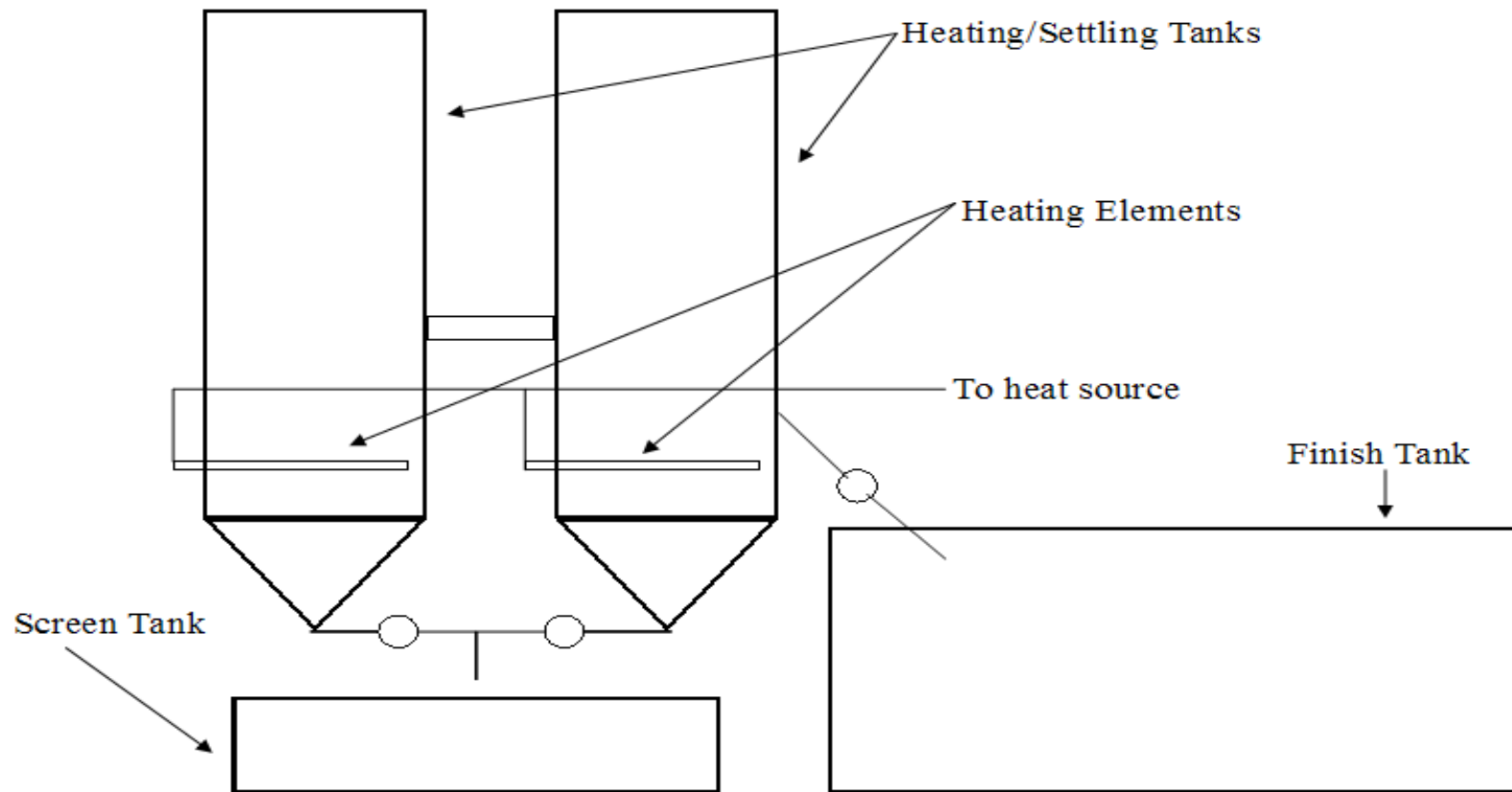


Finish and Storage

- Grease is placed in finish tank and heated again
- Final separation occurs and water/particulates drained



Brown Grease Plant



Uses for Brown Grease

- POP Diesel Fuel™
- Burner fuel
- Heavy fuel oil substitute

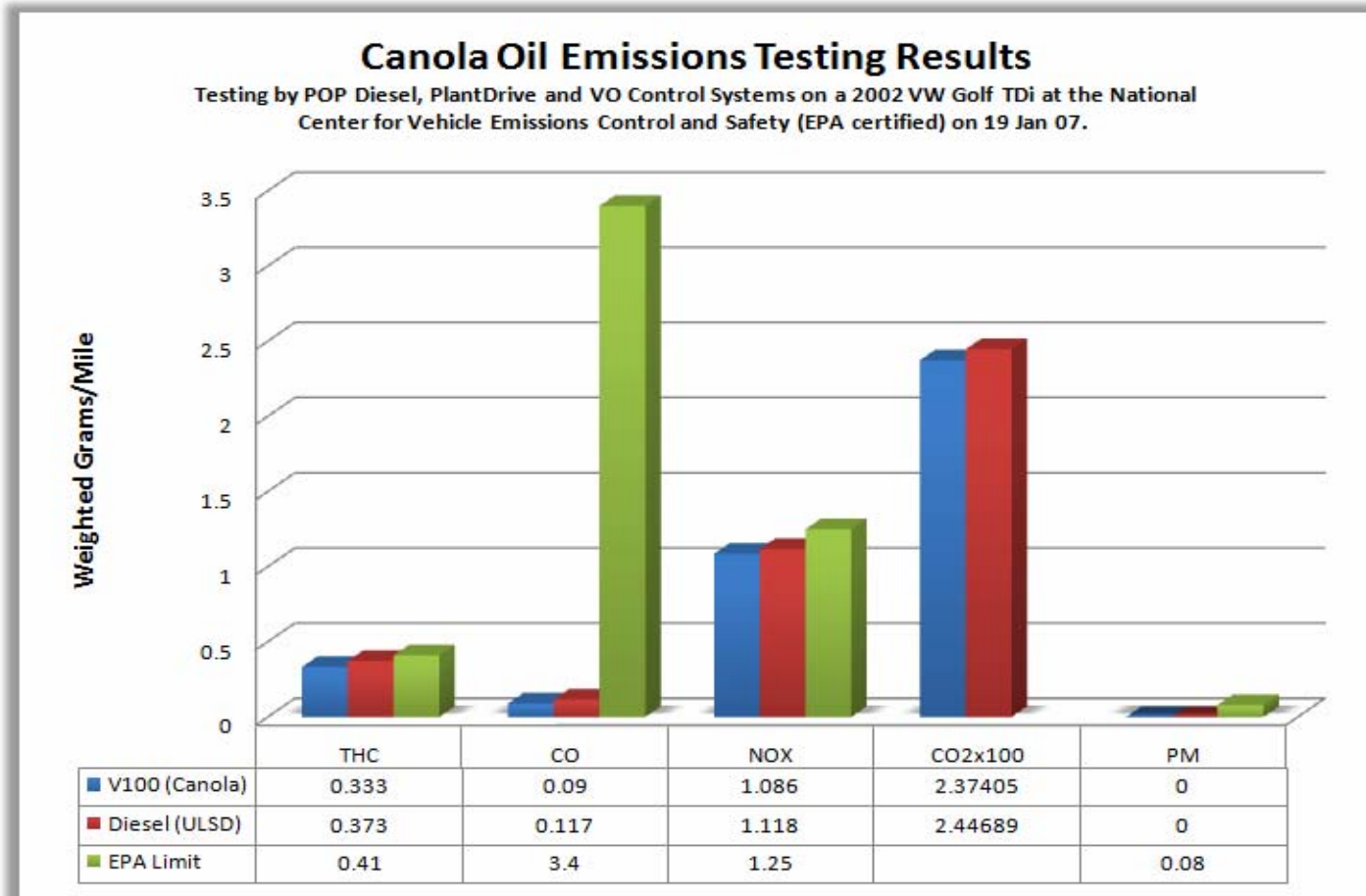
Vehicle Example 1



Vehicle Example 2



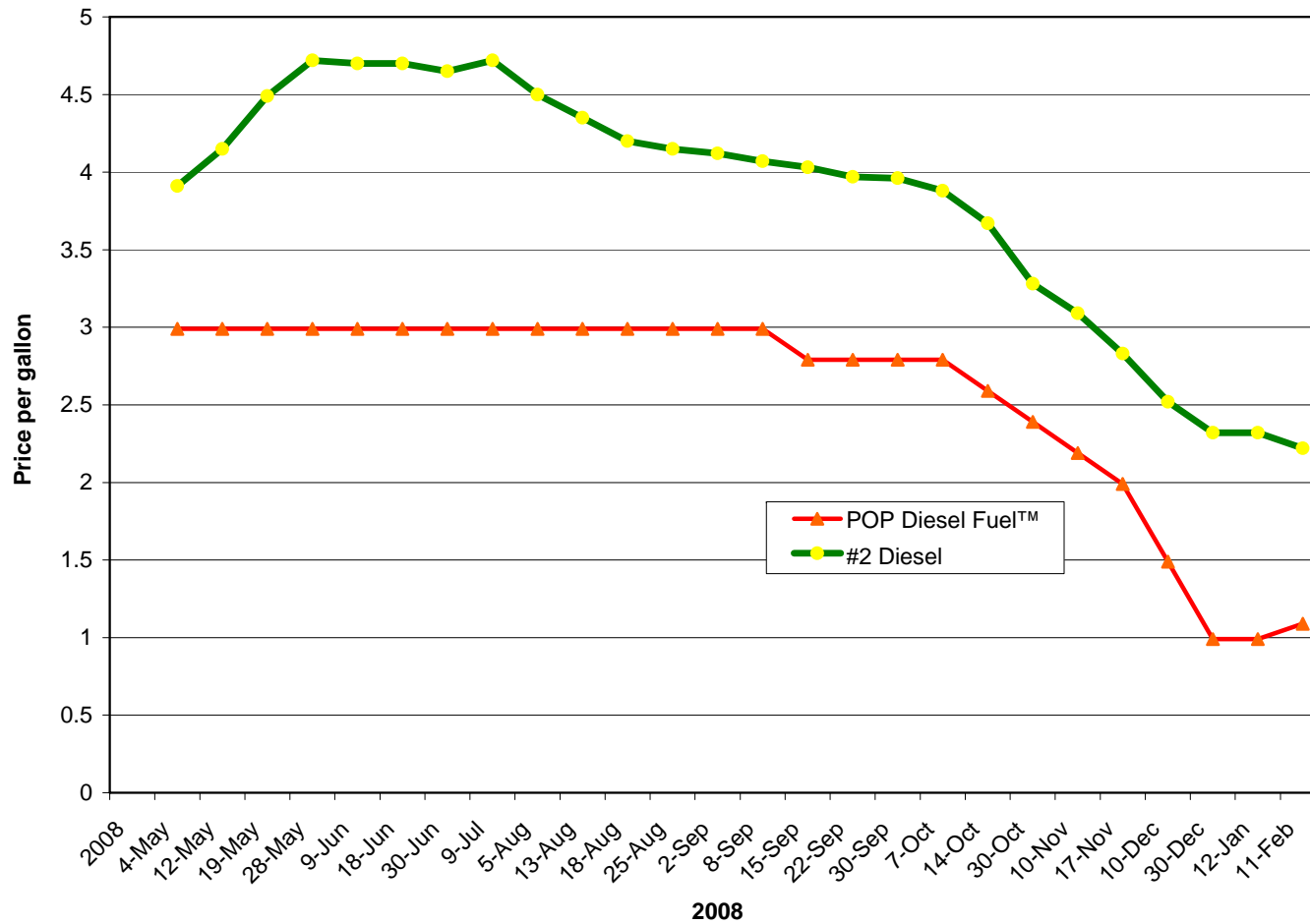
Emissions Testing



POP Diesel Fuel™ Pricing



Price advantage of POP Diesel Fuel™



Savings per Vehicle

with Use of POP Diesel Fuel Fuel™

- Gallons of #2 diesel used per month = 1,000
- Price of #2 diesel per gallon = \$2.09
- Price of POP Diesel Fuel™ = \$1.09
- Savings per gallon with POP Diesel Fuel™ = \$1.00
- Savings per month on 1,000 gallons = **\$1,000**

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Questions and thank you!



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