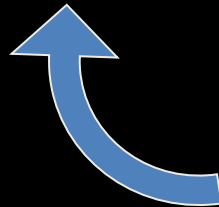
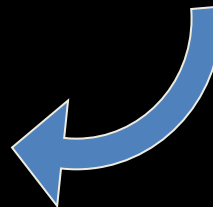
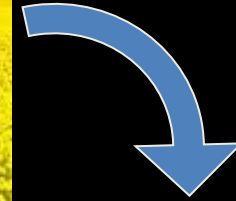


# UBC Biodiesel Project

Chemical and Biological  
Engineering Sustainability



CHBE Research Day – October 9<sup>th</sup>, 2013



**CO<sub>2</sub>**

**78%**

**Soot**

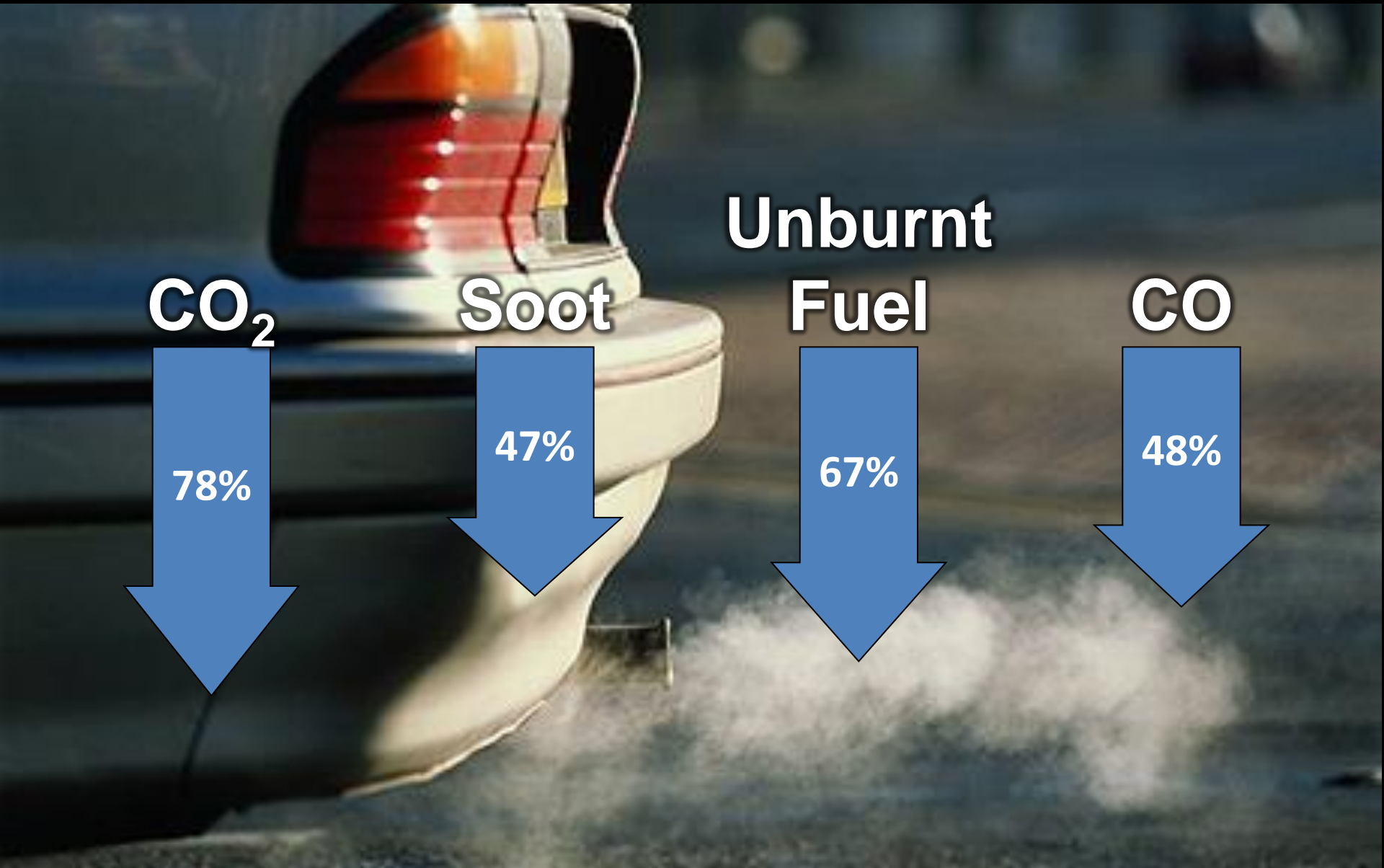
**47%**

**Unburnt  
Fuel**

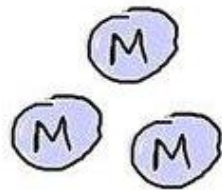
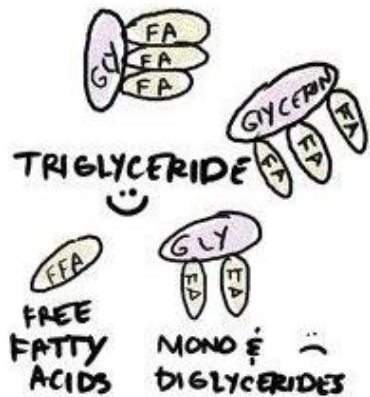
**67%**

**CO**

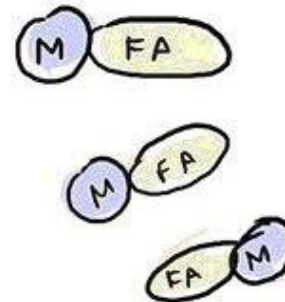
**48%**







POTASSIUM HYDROXIDE  
 acts as the catalyst



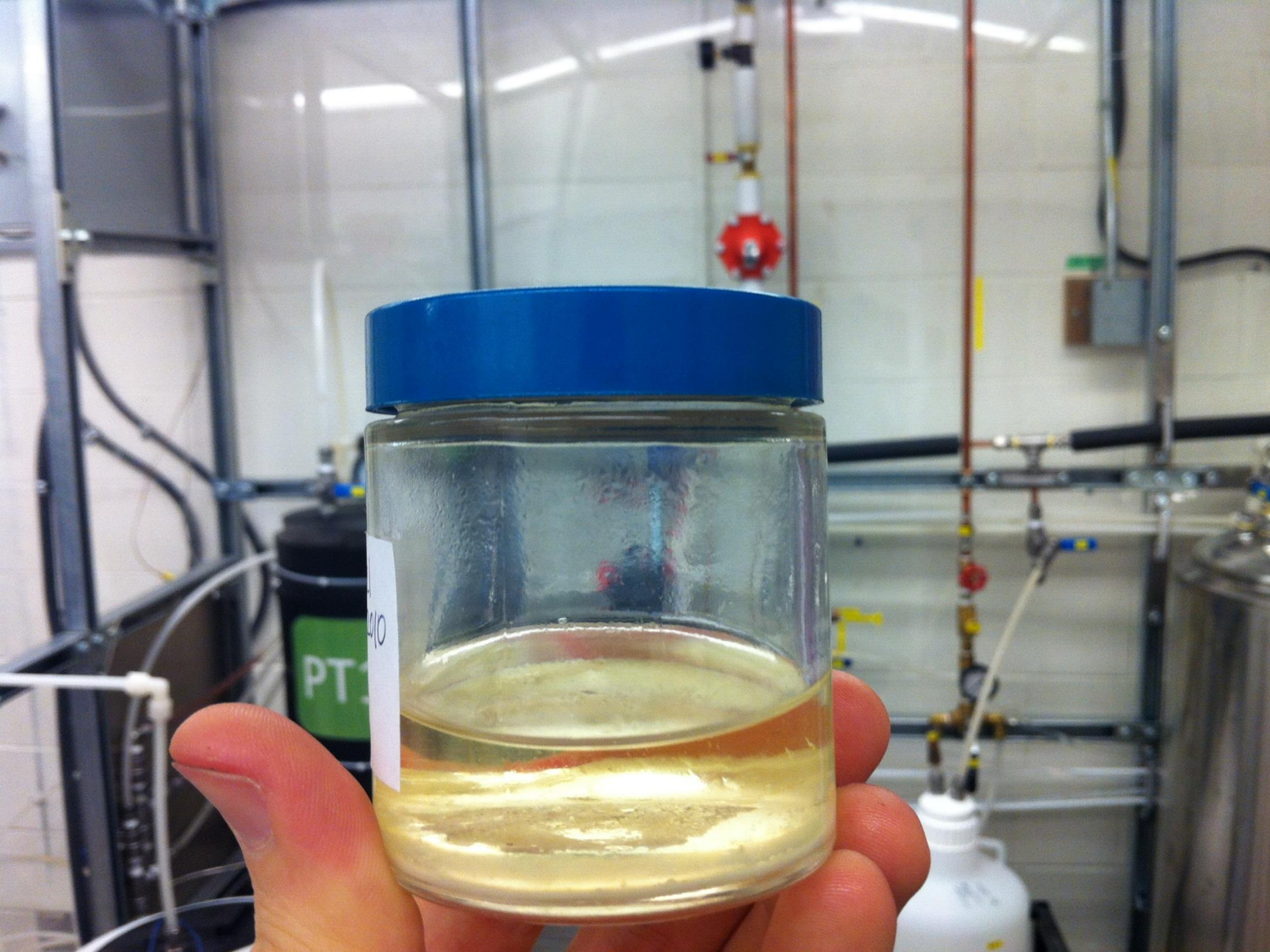
















The image shows four glass jars with gold-colored lids, each containing a different liquid. From left to right: the first jar is filled with a dark red liquid; the second and third jars are filled with a bright yellow liquid; and the fourth jar is filled with a dark brown liquid. Each jar has a black label with white text identifying its contents. The jars are placed on a light-colored wooden surface against a plain white background.

**Fryer Oil**

**Diesel Fuel**

**Biodiesel**

**Glycerol**







8  
THE UNIVERSITY OF  
BRITISH COLUMBIA

G.V.W. 4,500 KG.

DIF

VESEL  
FUEL









Biodiesel blend:  
B

1 2 3  
4 5 6  
7 8 9  
\* 0 #



UBC Sustainability Club  
Biodiesel Station  
2360 East Mall (CHBE Building)  
University of British Columbia  
Vancouver, Canada V6T 1Z3  
2013/03/04 15:35:01  
Mix:B017 B\$/L:\$1.00 P\$/L:\$1.45  
Volume: 0.00L TOTAL: \$ 0.00  
Today you saved 3.00L of



# UBC Sustainability Club Biodiesel Station

2360 East Mall (CHBE Building)  
University of British Columbia  
Vancouver, Canada V6T 1Z3

2013/04/04

09:13:49

Mix: B020 B\$/L: \$1.00 P\$/L: \$1.41

Volume: 171.64L TOTAL: \$228.

85

Today you saved 31.76L of  
petrodiesel & 64.31kg of CO2 by  
replacing it with renewable  
biodiesel

Thank you!  
Have a nice day and  
please come again!



DIESEL

DIESEL  
FUEL



**Blended Fuel Sold – 1025 L**

**Biodiesel Sold – 252 L**

**CO<sub>2</sub> Avoided – 511 kg**









[www.ubcbiodiesel.com](http://www.ubcbiodiesel.com)

