

BELT

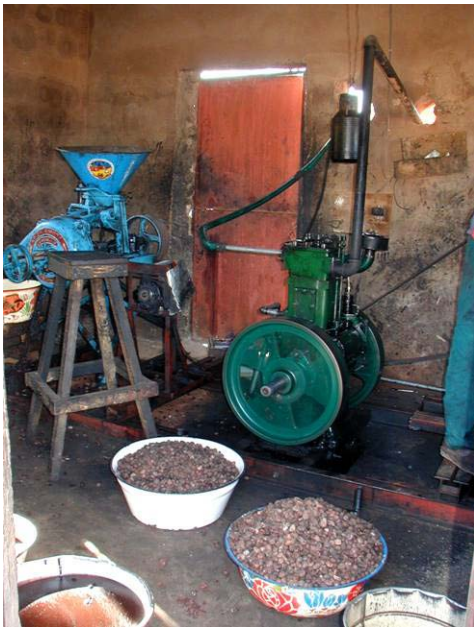
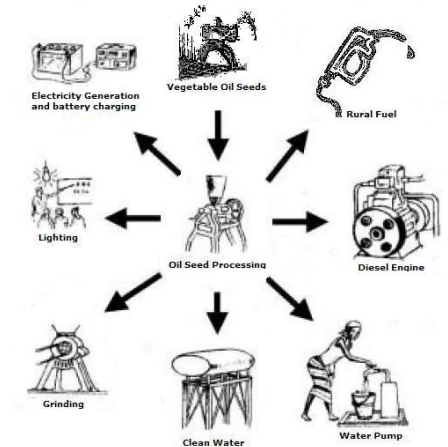
(Biofuel Engine Longevity Test)

Columbia University
Manhattan College
City College



Context & Motivation

- Resource limited settings
- MFP's (Multifunction Platforms)
- Non-edible plant oils



Approach

Possibilities

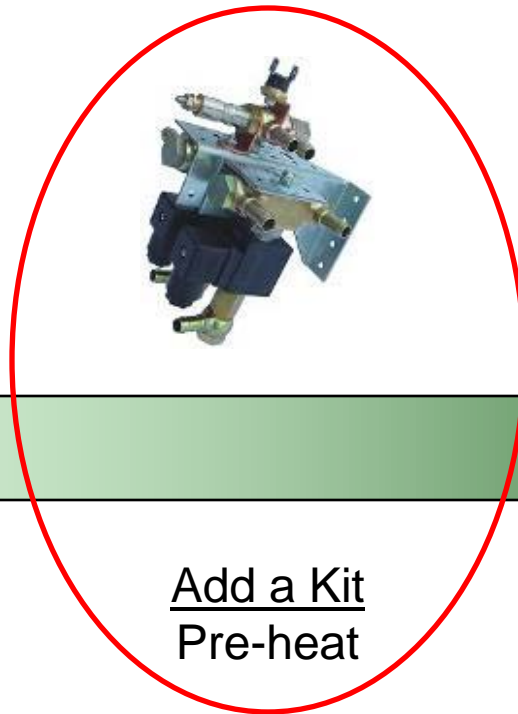
- Similar energy density
- Increases lubricity

Limitations

- Higher viscosity
- Poor cold flow properties



Alter fuel
Biodiesel



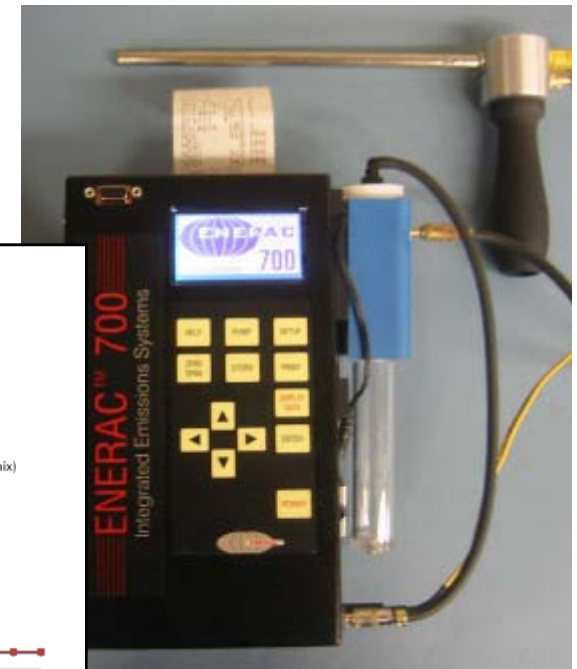
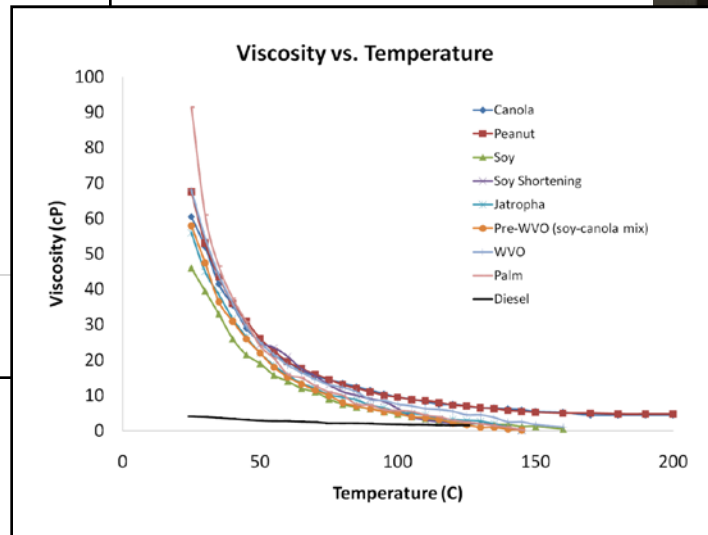
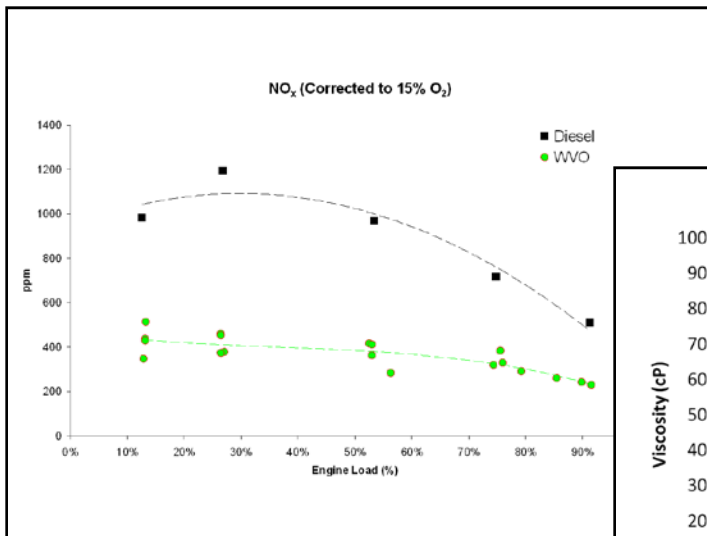
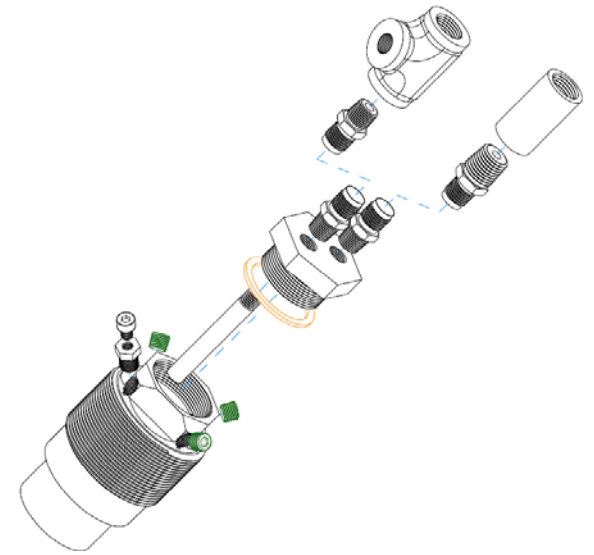
Add a Kit
Pre-heat



Alter engine
Elsbett

Methods

1. Design, build, test kit
2. 500 hour longevity test
3. Lab & Field test sites



Participants

NYC: Columbia University, Manhattan College, City College

Field Partners: Pilgrim (Uganda), Makerere University (Uganda), Mali Biocarburant (Mali)

