



# Sustainable Technology Evaluation and Demonstration (STED) Program

## Biobased Synthetic Motor Oil Demonstration



### Technology Description

Full synthetic motor oils made from biobased feedstocks in place of petroleum oil.

### Potential Impact

- Reduce related petroleum consumption by at least 30%.
- Extend oil service intervals; product and labor cost savings.
- Increase engine longevity / vehicle useful life, reducing operational costs.

### Benefits

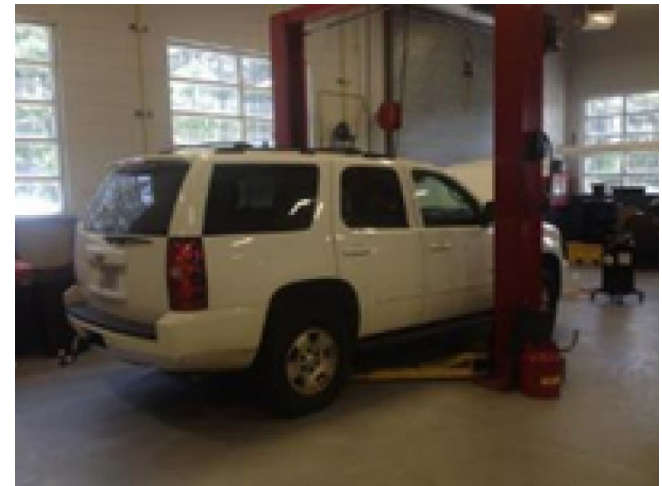
- Meets original equipment manufacturer (OEM) requirements – American Petroleum Institute (API) Certified.
- Reduces toxicity and negative environmental impact.
- BioPreferred Product Category: expand markets for domestic agricultural products.

### Demonstration Sites

- Demonstrated at 12 U.S. Air Force (USAF) bases, two Navy bases, Ft. Irwin, four NASA Centers, DHS FLETC, and U.S. Postal Service (USPS) Facility (Merryfield, VA).
- No oil related issues; six new biobased National Stock Numbers (NSNs) established.

**For additional information please contact:**

- [DoW STED Program email](#)



**DHS FLETC Demonstration Vehicle**