



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

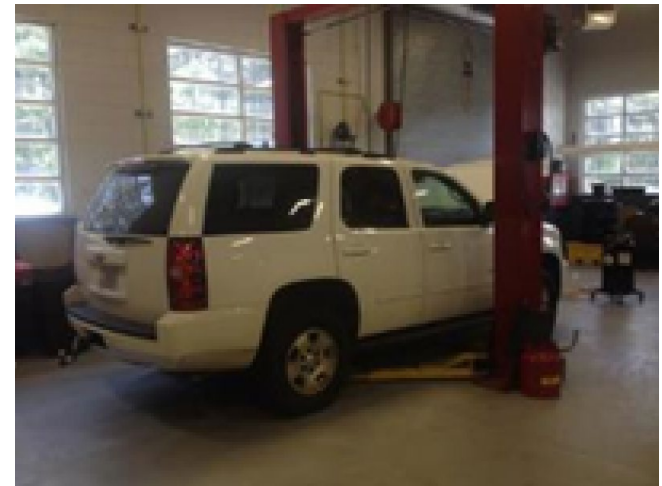
- Meets original equipment manufacturer (OEM) requirements – American Petroleum Institute (API) Certified.
- Reduces toxicity and negative environmental impact.
- BioPreferred Product Category: expand markets for domestic agricultural products.

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:

- osd.mc-alex.ousd-a-s.mesg.dod-sted-program-mbx@mail.mil
- Department of Defense (DoD) Sustainable Products Center (SPC):
<https://www.denix.osd.mil/spc/index.html>



DHS FLETC Demonstration Vehicle