




Biodiesel and Eastman Chemical Company

Darren Curtis, P.E.
Reliability Technology Dept.

East Tennessee Clean Fuels Coalition
Biodiesel Workshop
August 26, 2009



History of Biodiesel at Eastman

- Started investigating the usage of biodiesel at Eastman in October 2004
- Started using biodiesel in Eastman fleet in 2005
 - B10 – March 2005
 - B20 – April 2005
 - Biodiesel has been in use for 4.5 years
- Switched locomotives to biodiesel in 2007
 - B10 – July 2007
 - B20 – August 2007
- Biodiesel usage at Eastman
 - 2008 – 92,000 gal (B100)
 - 2009 – 63,000 gal YTD (B100)
– 108,000 gal (Annualized)

EASTMAN

Eastman's Experience with Biodiesel

- Equipment problems / Issues
 - No equipment damage
 - Fuel filters plugging due to cleaning effect
 - Biodiesel gelling
- Raw materials
 - Animal fats
 - Soybean oil
- Qualified/Certified manufacturers
- Winter-time usage
 - B10 from Nov 1st – April 1st
 - Anti-gelling additives

EASTMAN

Equipment

- Approximately 237 pieces of equipment
- Equipment includes:
 - Medium duty trucks
 - Heavy duty trucks
 - Lifting equipment – cranes, boom trucks
 - Earthmoving equipment (dozers, backhoes, etc.)
 - Locomotives
 - Miscellaneous – farm tractors, emergency trucks, pumps

EASTMAN



EASTMAN



EASTMAN



EASTMAN



EASTMAN



EASTMAN

