



# **The Effort Toward Biodiesel Development at Chrysler LLC**

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# Chrysler and Diesel Technology



## In the United States Chrysler:

- 3.0 L CRD Jeep Grand Cherokee (42 States)
- 3.0 L Dodge Sprinter
- 6.7 L Cummins Turbo Diesel on Dodge Ram 2500 and 3500
- 5.9 L 2009 Dodge Ram 1500 LD Diesel



## In Mexico & South America:

- 5.9 L Cummins Turbo Diesel on Dodge Ram

## In Europe Chrysler offers a full line of products:

- **Chrysler** 300, Grand Voyager, PT Cruiser, Sebring & Sebring Cabrio
- **Dodge** Avenger, Caliber, Journey & Nitro
- **Jeep** Cherokee, Commander, Compass, Grand Cherokee, Patriot, Wrangler & Wrangler Unlimited



# Chrysler and Biodiesel



- **The first fill of every Chrysler Diesel vehicle leaving a North American Assembly Plant is B5**
- **Chrysler is an active participant in NextEnergy, Detroit, MI,**
  - NextEnergy is a non-profit corporation founded to enable commercialization of energy technologies that positively contribute to economic competitiveness, security, and the environment
  - Governors initiative to drive alternative energy development in MI.
- **Chrysler was a vocal proponent the B6 – B20 standard through the ASTM sub-committee process**
- **Seed crop test plots at Chrysler sites!**
  - Rose Township
  - Chelsea Proving Grounds
  - Many more in 2008



**PETER CREMER**  
NORTH AMERICA, LP



# Energy Independence and Security Act of 2007



The EISA sets some hard targets that will be difficult to meet

## Industry fleet avg. of 35 MPG by 2020

- Will require the application of all known and promising technological improvements to be applied to the traditional internal combustion engine (ICE), increase in diesel presence
- Will require a massive influx in the availability of flexible fuel vehicles
- Will require the electrification of the fleet as quickly as commercial viability allows

## 36 Billion gal of renewable fuel by 2022

- New Renewable Fuels Standard (RFS) goes well beyond the Energy Policy Act of 2005



*“Our dependence on oil creates a threat to America's national security, because it leaves us more vulnerable to hostile regimes, and to terrorists who could attack oil infrastructure.”*

**President Bush**

# Warranty Issues Related to B20



**Chrysler has and will continue to support the use of biodiesel blends up to B20 but requires**

- An established specification
- Sufficient opportunity to test our products to those specifications
- Centrally located military, government and commercial applications



**However, Chrysler retains the right to void the vehicle warranty if the damage is caused by external conditions such as the customer's choice of fuel blend**

**There are reasons why "Moonshine" is "regulated"**



# Chrysler Diesel Technology of the Future



## Jeep® Renegade Concept Vehicle

- Introduced at the 2008 North American International Auto Show
- Dual mode Hybrid Electric/Diesel
  - Lithium Ion Battery technology with a projected 40 all electric range
  - Coupled with a 1.5 L, 3 cylinder BLUETEC Diesel Engine which extends range to 400 miles

