



APEC Workshop March 19, 2018



Pacific Biodiesel

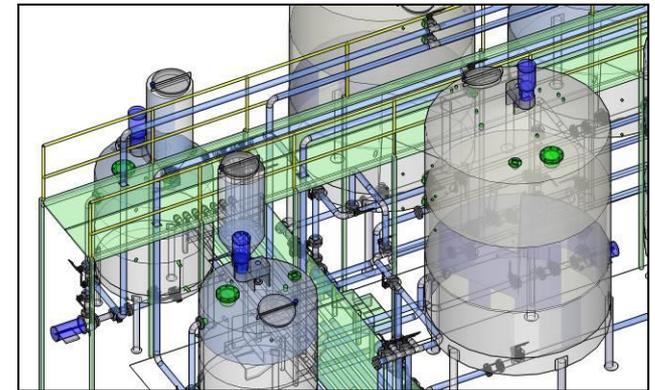


Company History

- Formed in 1995 in Maui Hawaii
- Built 13 biodiesel facilities
- Advanced technology to exceed ASTM standards

Present Company Activities

- Used oil collection
- Farming & oilseed pressing
- Biodiesel production
- Fuel sales and distribution





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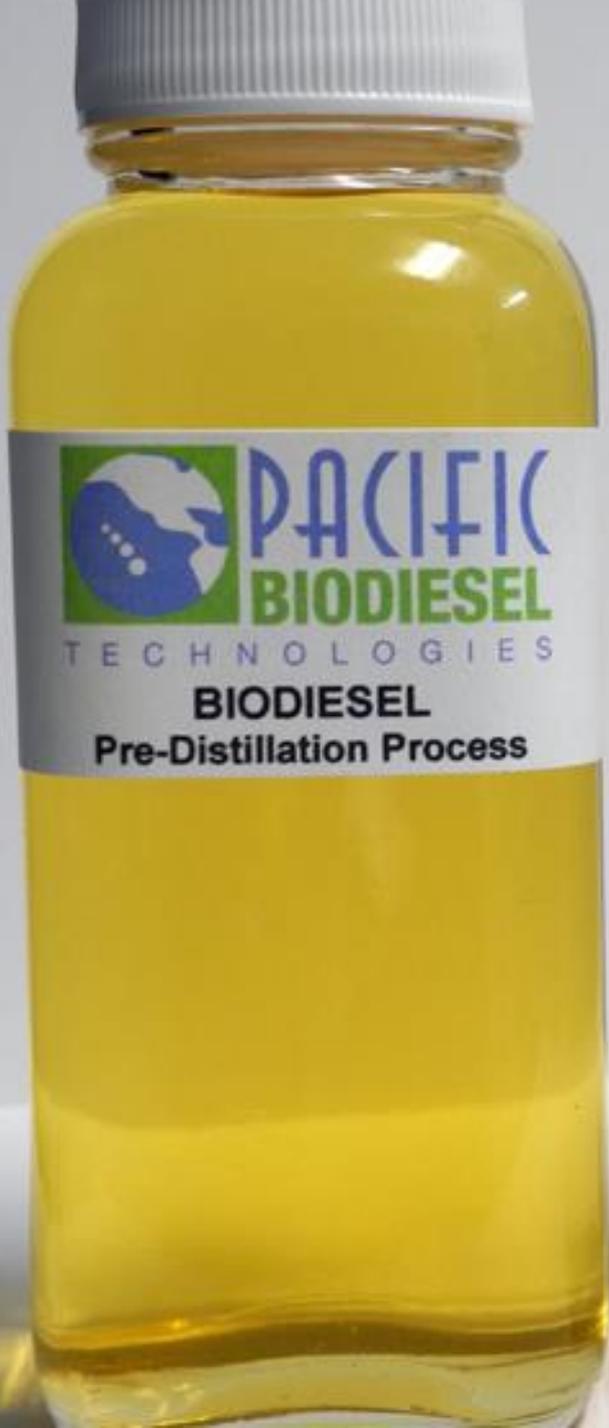


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TECHNOLOGIES

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Pre-Distillation Process



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TECHNOLOGIES

Premium Distilled Biodiesel

Made in Hawaii





VF-015
DEAE

510

VT-6015
PRODUCT RECEIVER

2014
5.5.20



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MPGM 36000KG	MPGM
79365 LB	ON UIC RAILWAYS
TARE 3375KG	36000KG
7440 LB	
PAYLOAD 32625KG	
71925 LB	

STEAM
OUTLET

STEAM
INLET

STEAM M.A.W.P.
4 BAR

The New York Times

Big Island Plant in Hawaii Is First to Be Certified as Sustainable





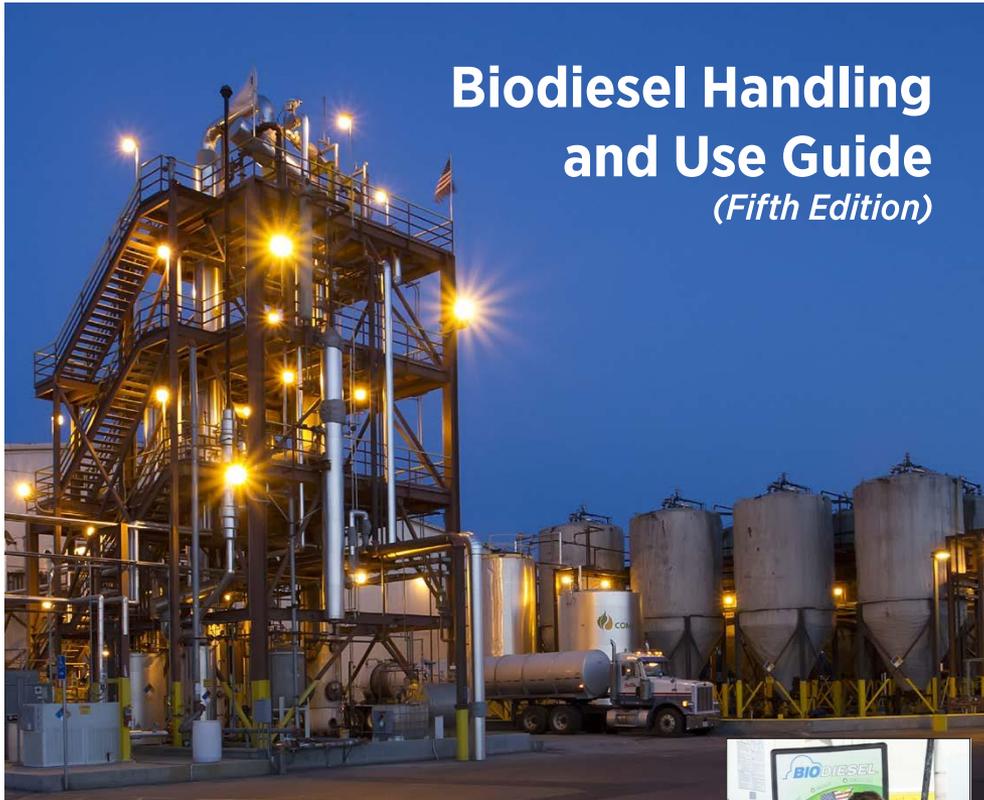
U.S. Biodiesel Specification is
ASTM D-6751 for B100
ASTM D-7467 for B6-B20
ASTM D-975 for B5 or less

- First spec was created in 2002
- Over 16 modifications during 10 years
- Changes are predominantly driven by diesel engine manufacturer's requirements

Biodiesel Effects with DPF and SCR

- Particulate Matter reductions
 - -37% to -50% with B20
 - -71% to -79% with B99
- “The SCR system reduced NOx emissions by 64%-87%, and its performance was not affected by the use of biodiesel”

Biodiesel Handling and Use Guide *(Fifth Edition)*



Engine and Vehicle Manufacturer Approvals

“Federal law prohibits the voiding of a warranty just because biodiesel was used.”



DOE/GO-102016-4875

November 2016

Manufacturers Approving B20

- Audi (MN and IL only)
- Blue Bird
- Case
- Caterpillar
- Chrysler (fleets only)
- Cummins
- Ford
- Freightliner (Cummins powered)
- GM
- Hino
- Isuzu
- John Deere
- Kubota
- Mack
- Thomas Built Buses
- Volkswagen (MN and IL only)
- Volvo
- Yanmar

Manufactures Approving B100

- Case IH
- Deutz
- Fairbanks Morse
- Scania (including Euro 6 engines)



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 *Sustainable Energy*



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Willie Nelson

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BIO DIESEL

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VT-0503

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CATERPILLAR



Engine Serial Number 55K00851

CATERPILLAR

1



CAT

CATERPILLAR



Schofield Barracks 50MW Fast Start



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