



APEC Workshop March 19, 2018



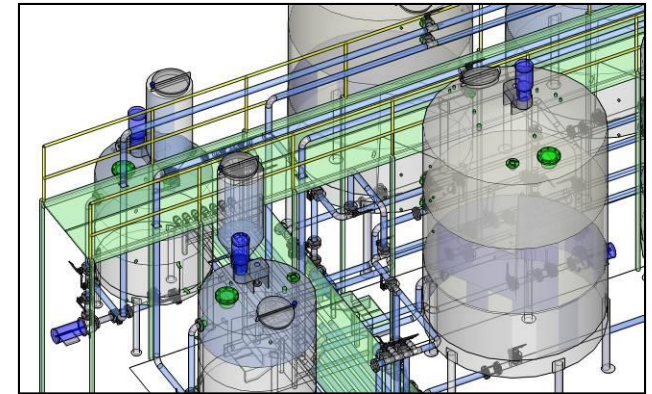
Pacific Biodiesel

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





www.biodiesel.com
(808) 877-7718

M005

PACIFIC BIODIESEL, LLC



Grease Trap and Used Cooking Oil Recycling

(808) 877-7718

GVW 73,200

www.biodiesel.com









TECHNOLOGIES

BIODIESEL

Pre-Distillation Process



**PACIFIC
BIODIESEL**

TECHNOLOGIES

Premium Distilled Biodiesel

Made in Hawaii







VF-015
DEAE

510

2016
F-5030

VT-6015
PRODUCT RECIPIER

CIMC TANK
CIMC ENRIC

TRANSWORLD
Equipment Corp.
Intermodal Equipment Specialists

PBLU 808923 4
22K2



PACIFIC
BIODIESEL

www.biodiesel.com

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)



PACIFIC
BIODIESEL

(808) 935-7718

www.biodiesel.com

PACIFIC BIODIESEL LOGISTICS LLC

GVW 59,200



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WITTKE

Maui
Disposal
242-7999

Maui
Disposal
242-7999

GVW 66,000
USDOT 548799

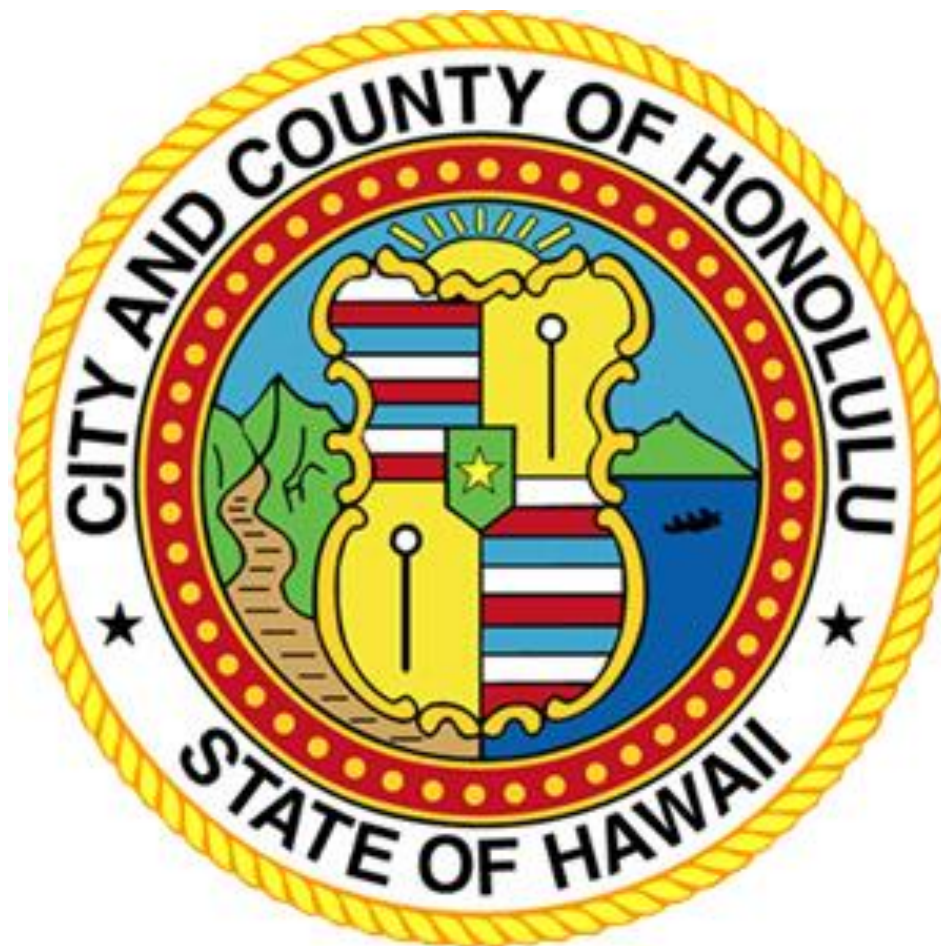
OFF-ROAD FUEL
AVAILABLE

Credit Cards- M-F 7:30am-4:00pm
Fuel Card Holders - 24 Hour Access



Hawaii
Electric
Light

GVW 37,600





PORT SHUTTLE

POWERED BY
BIODIESEL

888

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821 C 888
896559





All Other Airlines




Renew Hawaii

HONOLULU INTERNATIONAL

 Reduced emissions

 Green jobs

 Sustainable Energy



GV
PU
US



HI OG
HAWAII OFF-GRID
Architecture & Engineering

powered by
BIODIESEL







Powered by Biodiesel
for a Cleaner and Greener Hawaii







USS ARIZONA MEMORIAL

38-4



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BIO DIESEL

ET-0501

HESU
20135
2261





CATERPILLAR



Engine Serial Number 55600851

CATERPILLAR

1

CAT



HAWTHORNE CAT



CAT

CATERPILLAR



Schofield Barracks 50MW Fast Start



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TECHNOLOGIES

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