

Official Test Report

Form #: T06-13 - Initial Release, 11/26/2013

ISO 17025:2005 Accredited Laboratory

April 24, 2017

LCM Project 17.042101

Dieselpcraft

PO Box 4625
 Auburn, CA 95604

Attn: John Nightingale
 sales@dieselpcraft.com

Fuel Cleanliness Analysis: Evaluation of Treatment

Fuel samples submitted 4-14-2017 were analyzed by ISO Cleanliness test methods 4407/4406. Weight measurements and particle counts of the filtered samples suggest the treatment is removing approximately 99% of the debris from the fuel.

Table 1: Test Results.

LCM Sample ID	Client Sample ID/Description	Fuel Cleanliness Results ¹
17.042101-01	Before Treatment	Particulate Content (>1.2µm): 182mg/L ± 5mg/L ISO 4407 Particles per 100ml¹: ≥ 5µm: 8378000 ≥ 15µm: 3805000 Fibers: 17654 ISO 4406 Cleanliness Code: -/24/22
17.042101-02	After Treatment	Particulate Content (>1.2µm): 2mg/L ± 1mg/L ISO 4407 Particles per 100ml¹: ≥ 5µm: 128000 ≥ 15µm: 30500 Fibers: 1543 ISO 4406 Cleanliness Code: -/17/15
Membrane Filter Pore Size: 1.2µm Microscope: BA310Met-T SN:1480000644		Effective Filtration Area: 177mm ² Lighting Method: Incident Sample Volume: 100ml
1: Determination of solid particles contamination by the counting method using a microscope under transmitted/incident light in accordance with ISO 4407:2002.		



Figure 1: Before and After Comparison. 3.2mm square from 177mm² filter region.
Sample volume: 100ml for both images.

**The results presented in this report relate only to the samples tested.
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Analyst
Kristofer S. Weissaupt
Scientist



Certifying Manager
Robert M. Fisher, PhD
Chief Scientist



810 NW 45th Street • Seattle, Washington 98107
Phone: (206) 508-1470 • E-mail: mail@labcornmaterials.com
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