Herguth Laboratories, Inc.
People and Data You Can Count On!

Certificate of Analysis

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Lab No. 601637 (ALTEMP)
Report Date: June 7, 2006

Email: mpboronalt@aol.com
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Sample Description:
Lab Number 601637: Neat Diesel Fuel Sample
Lab Number 601638: 500:1 DFA in Diesel Fuel
Lab Number 601639: 1000:1 DFA in Diesel Fuel

Dear Mike:

Thank you for your confidence in Herguth Laboratories, Inc. Please accept this report and attachments as our conclusion to the above numbered project/sample descriptions.

Conclusion: The data indicate that the samples which contained the DFA additive had better lubricity results for both ASTM test methods than the neat fuel (Table 1). The data showed that the 500:1 treatment of DFA additive provided the best lubrication for the SLBOCLE test; however, the results remained the same for either additive treatment under HFRR test conditions, but a significant reduction in wear scar diameter nonetheless.

Background: Three samples were submitted for lubricity testing per ASTM D6079, Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR), and ASTM D6078, Standard Test Method for Evaluating Lubricity of Diesel Fuels by the Scuffing Load Ball-on-Cylinder Lubricity Evaluator (SLBOCLE). Table 1 displays the result for each test. The samples which contained the DFA additive had better lubricity results for both ASTM test methods than the neat fuel.

Table 1. Lubricity Test Results, ASTM D6078 and ASTM D6079

Sample ID	ASTM D6079 HFRR, wear scar mm	ASTM D6078 SLBOCLE, grams*
601637, Neat Fuel	0.34	4450
601638, 500:1 DFA in Neat Fuel	0.165	5800
601639, 1000:1 DFA in Neat Fuel	0.165	5250

* Reproducibility for ASTM D6078 is 900 grams.

Respectfully submitted,

Mindy L. Villalba
Project Manager

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Lab Number 601637

Mike Phelps
Advanced Lubrication Tech.
30851 West Agoura Road
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06/07/06

Client Code : ALTEMP Sample Date : 05/23/06 P.O. Number : VERBAL
Herguth ID : LAB601637
Description : Neat fuel sample

Test Performed	Proc-Rev	Result
Lubricity of Diesel Fuel by SLBOCLE	6078-1.0	4450 grams
Lubricity of Diesel Fuel by HFRR at 60°C	6079-1.0	0.340 mm

Please see attached report.

Respectfully Submitted,
Herguth Laboratories, Inc.

Mindy L. Villalba, Project Manager

cc: Mike Phelps
Charles Foscue

101 Corporate Place, Vallejo, CA 94590-6968 * Toll-Free Phone 1-800-645-5227 * Fax 1-707-554-0109

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Certificate of Analysis
Lab Number 601638

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06/07/06

Page 1

Client Code : ALTEMP Sample Date : 05/23/06 P.O. Number : VERBAL
Herguth ID : LAB601638
Description : 500:1 DFA in Diesel Fuel

Test Performed	Proc-Rev	Result	
Lubricity of Diesel Fuel by SLBOCLE	6078-1.0	5800	grams
Lubricity of Diesel Fuel by HFRR at 60°C	6079-1.0	0.165	mm

Please see attached report (reference lab number 601637).

Respectfully Submitted,
Herguth Laboratories, Inc.

Mindy L. Villalba, Project Manager

cc: Mike Phelps
Charles Foscue

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Certificate of Analysis
Lab Number 601639

Mike Phelps
Advanced Lubrication Tech.
30851 West Agoura Road
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Agoura Hills CA 91301

06/07/06

Client Code : ALTEMP Sample Date : 05/23/06 P.O. Number : VERBAL
Herguth ID : LAB601639
Description : 1000:1 DFA in Diesel

Test Performed	Proc-Rev	Result
Lubricity of Diesel Fuel by SLBOCLE	6078-1.0	5250 grams
Lubricity of Diesel Fuel by HFRR at 60°C	6079-1.0	0.165 mm

Please see attached report (reference lab number 601637).

Respectfully Submitted,
Herguth Laboratories, Inc.

Mindy L. Villalba, Project Manager

cc: Mike Phelps
Charles Foscue

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