

FUEL REPORT

Sample Rating Trend

NORMAL

GOOGLE-LNR-B-2-K

Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

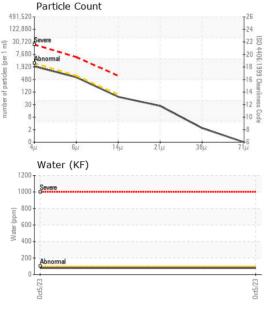
Fuel Condition

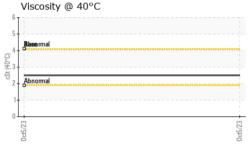
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

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SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0862203		
Sample Date	la una	Client Info		05 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.846		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated		58		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		11		
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DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		163		
5% Distillation Point	°C	ASTM D86		193		
10% Distill Point	°C	ASTM D86		204		
15% Distillation Point	°C	ASTM D86		213		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		233		
40% Distill Point	°C	ASTM D86		247		
50% Distill Point	°C	ASTM D86		259		
60% Distill Point	°C	ASTM D86		272		
70% Distill Point	°C	ASTM D86		287		
80% Distill Point	°C	ASTM D86		303		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86		324		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86		349		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.7		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.8		
Cetane Index		ASTM D4737	<40.0	46.1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	< 0.05	0.007		
ppm Water	ppm	ASTM D6304	<500	79.1		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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Particle Trend

Particle Trend

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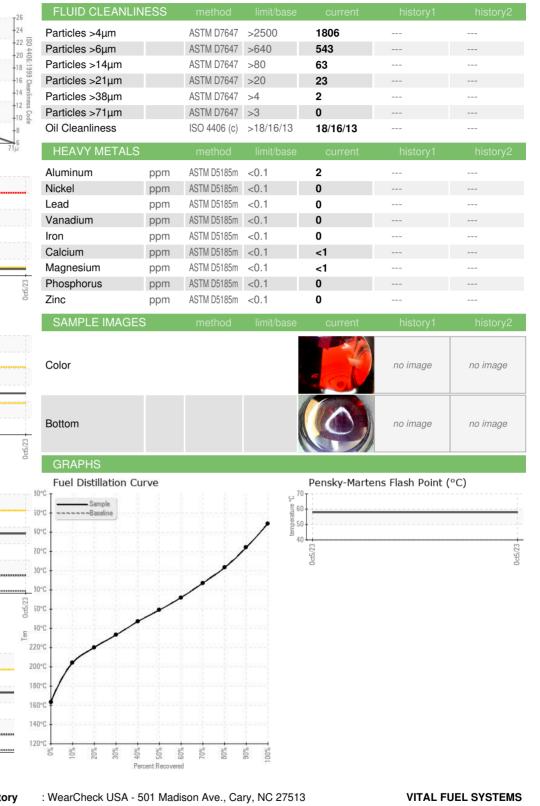
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Laboratory Sample No. : WC0862203 Received : 17 Oct 2023 1076 CLASSIC RD Lab Number : 05981558 Diagnosed : 25 Oct 2023 APEX, NC : 10698853 US 27539 Unique Number Diagnostician : Doug Bogart Test Package : DF-2 (Additional Tests: Screen) Contact: JOHN MORREALE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jmorreale@vitalfuelsystems.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)629-8180 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)303-7399

Contact/Location: JOHN MORREALE - VITAPE