

Area

FUEL REPORT

Sample Rating Trend

ISO

[LNR B2B CUMMINS] C-1-H Bulk Tank Diesel Fuel Flui DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you filter this fluid before use. 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

There is a high amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

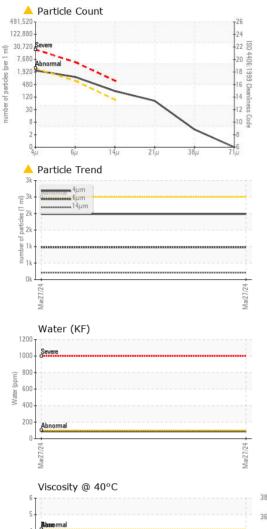
Fuel Condition

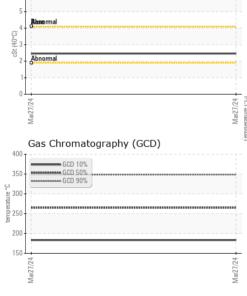
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914197		
Sample Date		Client Info		27 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated		61.5		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		172		
5% Distillation Point	°C	ASTM D86		195		
10% Distill Point	°C	ASTM D86		205		
15% Distillation Point	°C	ASTM D86		213		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		235		
40% Distill Point	°C	ASTM D86		249		
50% Distill Point	°C	ASTM D86		262		
60% Distill Point	°C	ASTM D86		276		
70% Distill Point	°C	ASTM D86		290		
80% Distill Point	°C	ASTM D86		306		
85% Distillation Point	°C	ASTM D86		317		
90% Distill Point	°C	ASTM D86		328		
95% Distillation Point	°C	ASTM D86		346		
Final Boiling Point	°C	ASTM D86		364		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36		
Cetane Index		ASTM D4737	<40.0	47		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.008		
ppm Water	ppm	ASTM D6304	<500	88		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		

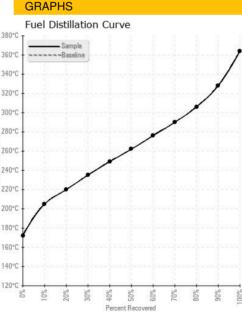


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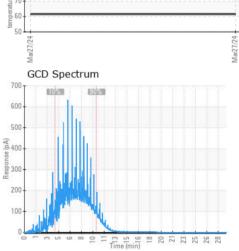




FLUID CLEANLI	NESS	method	limit/base	current	history1	history
Particles >4µm		ASTM D7647	>2500	1984		
Particles >6µm		ASTM D7647	>640	975		
Particles >14µm		ASTM D7647	>80	<mark>人</mark> 204		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	3		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	 18/17/15		
HEAVY METALS	;	method	limit/base	current	history1	history
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES		method	limit/base	current	history1	history
Color					no image	no image
Bottom					no image	no image
GRAPHS			-			
Fuel Distillation C	urve			Pensky-Marte	ns Flash Point (°C)
Ст			00 competendente			~









VITAL FUEL SYSTEMS Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0914197 Received : 03 Apr 2024 1076 CLASSIC RD Lab Number : 06138196 Tested : 15 Apr 2024 APEX, NC : 15 Apr 2024 - Doug Bogart Unique Number : 10963004 Diagnosed US 27539 Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: SERVICE To discuss this sample report, contact Customer Service at 1-800-237-1369. service@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

Report Id: VITAPE [WUSCAR] 06138196 (Generated: 04/15/2024 21:52:16) Rev: 1

Certificate 12367

Contact/Location: SERVICE ? - VITAPE

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