

FUEL REPORT

Sample Rating Trend







Machine Id

C-2-C
Component

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

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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

Moderate concentration of visible dirt/debris present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

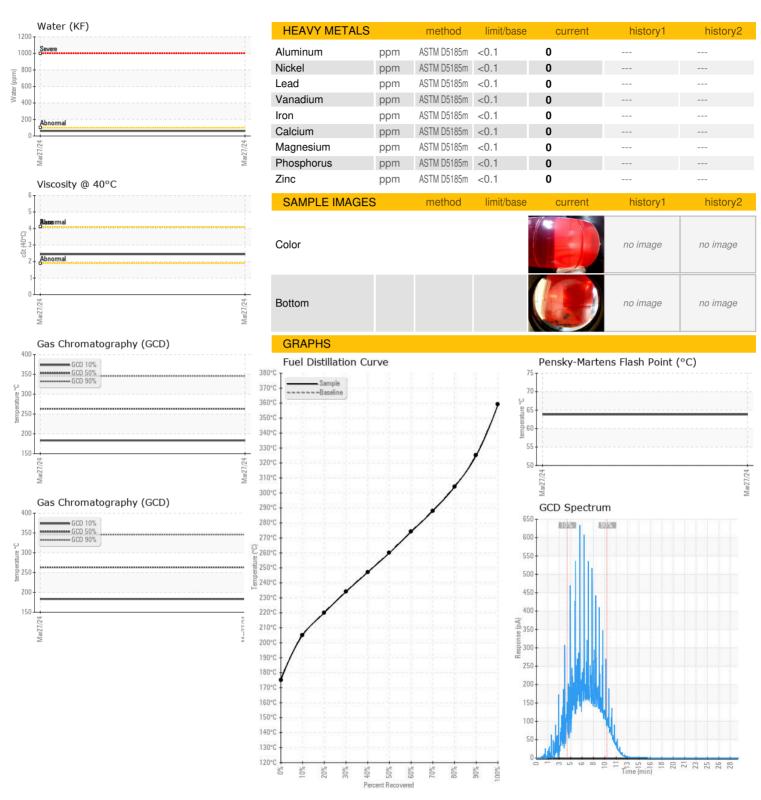
Fuel Condition

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

				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914200		
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	2.44		
Pensky-Martens Flash Point	°C	*PMCC Calculated		63.8		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		9		
DISTILLATION		method	limit/base	-	hiotonut	history
DISTILLATION			IIIIII/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		175		
5% Distillation Point	°C	ASTM D86		196		
10% Distill Point	°C	ASTM D86		205		
15% Distillation Point		ASTM D86		212		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		234		
40% Distill Point	°C	ASTM D86		247		
50% Distill Point	°C	ASTM D86		260		
60% Distill Point	°C	ASTM D86		274		
70% Distill Point	°C	ASTM D86		288		
80% Distill Point	°C	ASTM D86		304		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86		325		
95% Distillation Point	°C	ASTM D86		344		
Final Boiling Point		ASTM D86		359		
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37		
Cetane Index		ASTM D4737	<40.0	49		
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	0.006		
ppm Water	ppm	ASTM D6304	<500	61		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0914200 Lab Number : 06138203

Unique Number : 10963011

Received **Tested** Diagnosed

: 03 Apr 2024 : 15 Apr 2024 Test Package : DF-2 (Additional Tests: Fuel, Screen)

: 15 Apr 2024 - Doug Bogart

US 27539 Contact: SERVICE service@vitalfuelsystems.com T: (919)629-8180

VITAL FUEL SYSTEMS

1076 CLASSIC RD

APEX, NC

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: VITAPE [WUSCAR] 06138203 (Generated: 04/15/2024 21:53:38) Rev: 1

Contact/Location: SERVICE ? - VITAPE

F: (919)303-7399