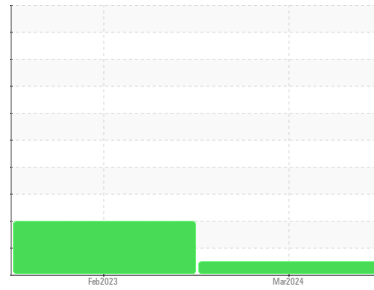




# FUEL REPORT

## Sample Rating Trend



**NORMAL**



Area  
**[20240793]**

Machine Id  
**Detroit 51 Louisiana Ave NW**

Component  
**Diesel Fuel**

Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (35 GAL)**

### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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.

#### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>DC0030697</b>	DC0014129	---
Sample Date	Client Info			<b>11 Mar 2024</b>	22 Feb 2023	---
Machine Age	yrs	Client Info		<b>0</b>	0	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L4.0</b>	L4.0	---
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.6</b>	2.63	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>16</b>	20	---
Sulfur (UVF)	ppm	ASTM D5453		<b>19</b>	37	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>36.4</b>	---	---

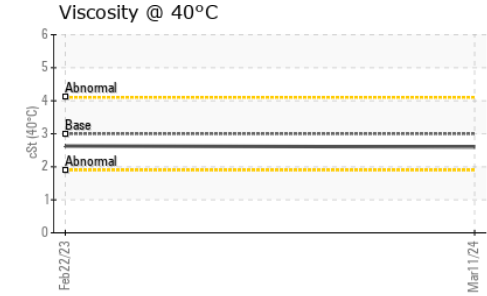
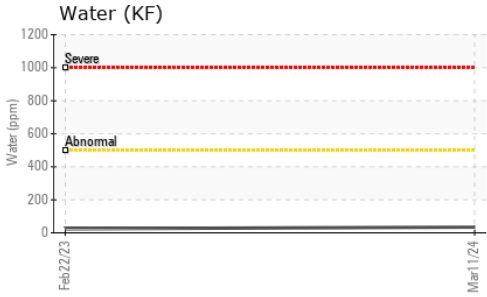
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	0	---
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	---
Water	%	ASTM D6304	<0.05	<b>0.003</b>	0.002	---
ppm Water	ppm	ASTM D6304	<500	<b>35</b>	24.3	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	---	● 3291	---
Particles >6µm		ASTM D7647	>640	---	● 1192	---
Particles >14µm		ASTM D7647	>80	---	● 188	---
Particles >21µm		ASTM D7647	>20	---	● 59	---
Particles >38µm		ASTM D7647	>4	---	1	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	● 19/17/15	---

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	11	---
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---

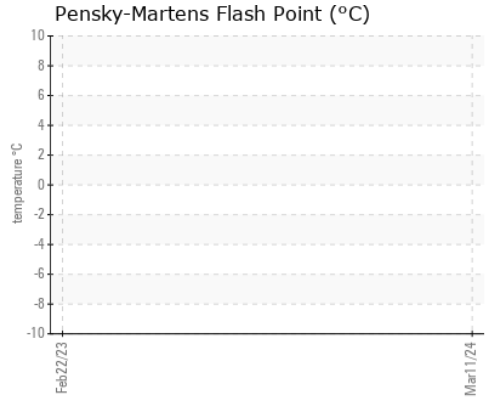


# FUEL REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0030697 **Received** : 01 Apr 2024  
**Lab Number** : 06135936 **Tested** : 12 Apr 2024  
**Unique Number** : 10955401 **Diagnosed** : 12 Apr 2024 - Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: API, Cetane, Fuel, Screen )

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)

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