



# FUEL REPORT

Sample Rating Trend

**NORMAL**



Area  
**[W95431]**  
 Machine Id  
**CATERPILLAR CAROLINA BAY @ AUTUMN HALL**  
 Component  
**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.

### Fuel Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0683034</b>	---	---
Sample Date	Client Info	<b>09 Feb 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 4.1	<b>2.48</b>	---	---

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	<b>0</b>	---	---
Sulfur (UVF)	ppm ASTM D5453	<b>10</b>	---	---


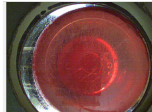
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	<b>0</b>	---	---
Sodium	ppm ASTM D5185m <0.1	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Water	% ASTM D6304 <0.05	<b>0.004</b>	---	---
ppm Water	ppm ASTM D6304 <500	<b>42.0</b>	---	---
% Gasoline	% *In-House <0.50	<b>0.0</b>	---	---
% Biodiesel	% *In-House <20.0	<b>2.1</b>	---	---

## HEAVY METALS

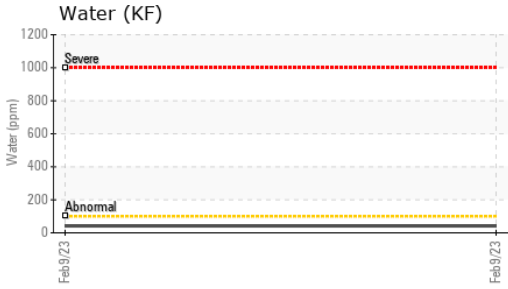
method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Nickel	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Lead	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Iron	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Calcium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Phosphorus	ppm ASTM D5185m <0.1	<b>4</b>	---	---
Zinc	ppm ASTM D5185m <0.1	<b>0</b>	---	---

## SAMPLE IMAGES

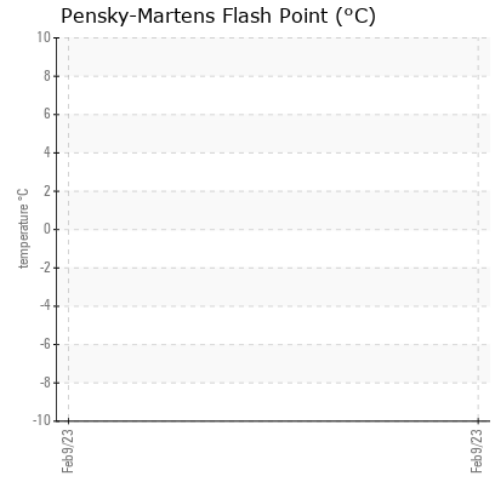
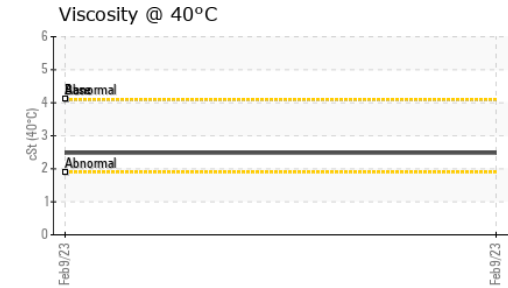
method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image



# FUEL REPORT



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0683034 **Received** : 15 Feb 2023  
**Lab Number** : **05769126** **Diagnosed** : 27 Feb 2023  
**Unique Number** : 10338734 **Diagnostician** : Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: COOL, 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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