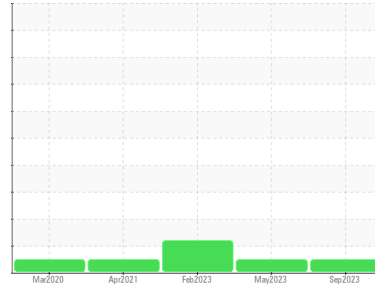




# FUEL REPORT

Sample Rating Trend

**NORMAL**



Area  
**[W121559]**

Machine Id  
**CUMMINS HILLCO SUPPORT CHERRY**

Component  
**Diesel Fuel**

Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (2082 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

There is no Bacteria, Yeast and/or Fungus indicated in the sample. The water content is negligible. 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>WC0797375</b>	WC0683033	WC0711881
Sample Date	Client Info			<b>21 Sep 2023</b>	01 May 2023	08 Feb 2023
Machine Age	hrs	Client Info		<b>0</b>	117	0
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L4.0</b>	---	4.5
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.56</b>	2.6	2.59

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>0</b>	0	0
Sulfur (UVF)	ppm	ASTM D5453		<b>8</b>	---	6

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	0	0
Sodium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Water	%	ASTM D6304	<0.05	<b>0.004</b>	0.004	0.005
ppm Water	ppm	ASTM D6304	<500	<b>45.8</b>	46.5	50.9
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	0.0
% Biodiesel	%	*In-House	<20.0	<b>4.6</b>	---	5.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	---	---	▲ 19758
Particles >6µm		ASTM D7647	>640	---	---	▲ 1925
Particles >14µm		ASTM D7647	>80	---	---	54
Particles >21µm		ASTM D7647	>20	---	---	6
Particles >38µm		ASTM D7647	>4	---	---	0
Particles >71µm		ASTM D7647	>3	---	---	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	---	▲ 21/18/13

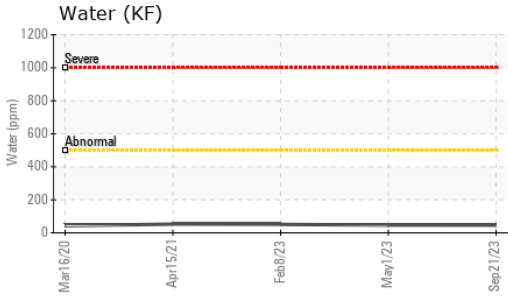
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>2</b>	0	2
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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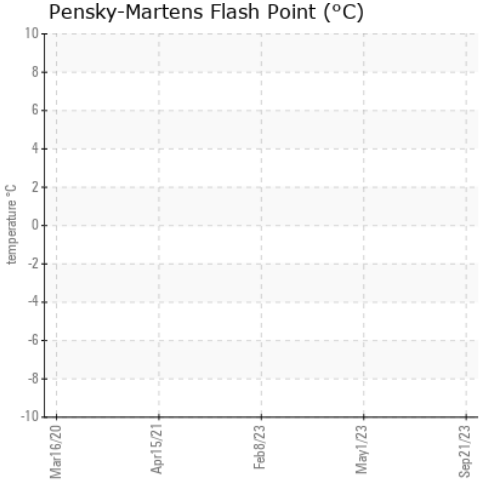
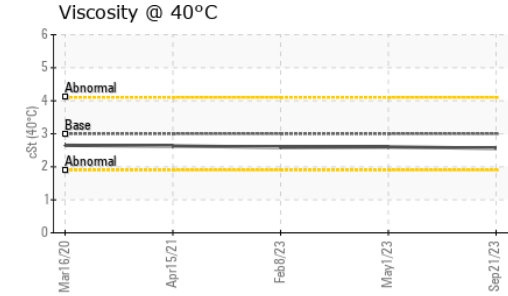




# FUEL REPORT



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0797375 **Received** : 27 Sep 2023  
**Lab Number** : 05962606 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10669157 **Diagnostician** : Doug Bogart  
**Test Package** : DF-5 ( Additional Tests: 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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