



# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area

**CITY OF ROCK HILL [17795]**

Machine Id

**[CITY OF ROCK HILL] PORT 4444**

Component

**Diesel Fuel**

Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (125 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 or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

### 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>WC0957760</b>	---	---
Sample Date	Client Info	<b>25 Jun 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Fuel Color	text *Visual Screen	Yellow	<b>Yellow</b>	---
ASTM Color	scalar *ASTM D1500		<b>L3.0</b>	---
Visc @ 40°C	cSt ASTM D445	3.0	<b>2.4</b>	---
Pensky-Martens Flash Point	°C *PMCC Calculated	52	<b>59.7</b>	---

## SULFUR CONTENT

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

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	<b>170</b>	---
5% Distillation Point	°C ASTM D86		<b>192</b>	---
10% Distill Point	°C ASTM D86	201	<b>202</b>	---
15% Distillation Point	°C ASTM D86		<b>209</b>	---
20% Distill Point	°C ASTM D86	216	<b>217</b>	---
30% Distill Point	°C ASTM D86	230	<b>232</b>	---
40% Distill Point	°C ASTM D86	243	<b>245</b>	---
50% Distill Point	°C ASTM D86	255	<b>259</b>	---
60% Distill Point	°C ASTM D86	267	<b>273</b>	---
70% Distill Point	°C ASTM D86	280	<b>288</b>	---
80% Distill Point	°C ASTM D86	295	<b>304</b>	---
85% Distillation Point	°C ASTM D86		<b>315</b>	---
90% Distill Point	°C ASTM D86	310	<b>326</b>	---
95% Distillation Point	°C ASTM D86		<b>343</b>	---
Final Boiling Point	°C ASTM D86	341	<b>356</b>	---

## IGNITION QUALITY

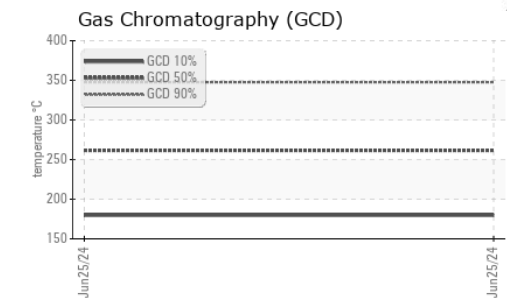
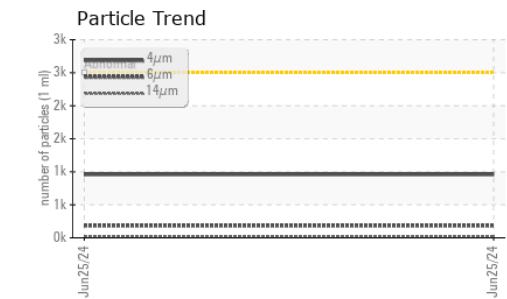
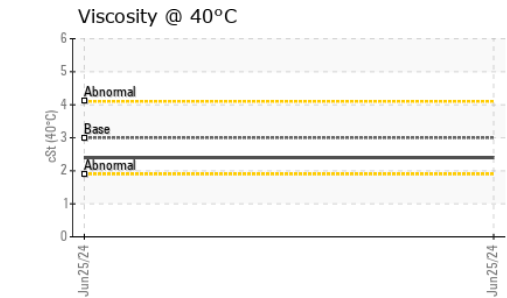
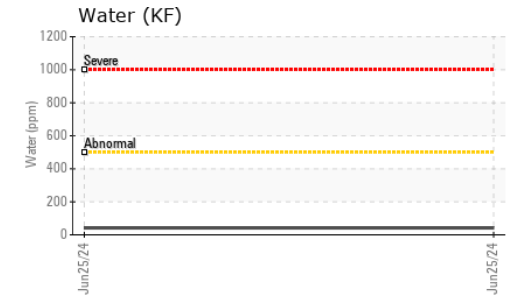
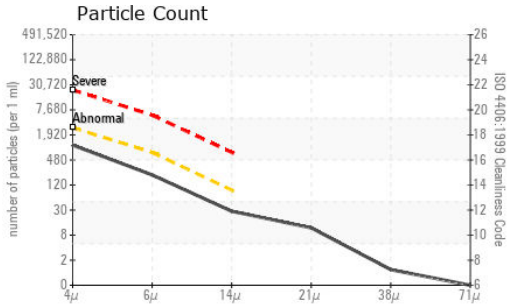
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	<b>37</b>	---
Cetane Index	ASTM D4737	<40.0	<b>48</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<1.0	<b>&lt;1</b>	---
Sodium	ppm ASTM D5185m	<0.1	<b>1</b>	---
Potassium	ppm ASTM D5185m	<0.1	<b>&lt;1</b>	---
Water	% ASTM D6304	<0.05	<b>0.004</b>	---
ppm Water	ppm ASTM D6304	<500	<b>42</b>	---
% Gasoline	% *In-House	<0.50	<b>0.0</b>	---
% Biodiesel	% *In-House	<20.0	<b>1.3</b>	---



# FUEL REPORT

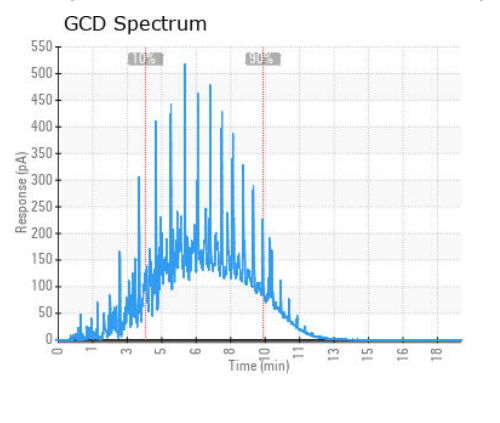
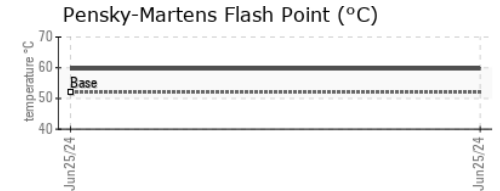
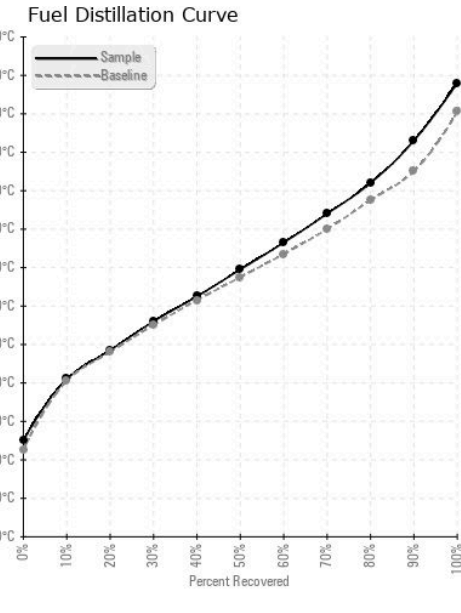


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>959</b>	---	---
Particles >6µm	ASTM D7647	>640	<b>185</b>	---	---
Particles >14µm	ASTM D7647	>80	<b>25</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>10</b>	---	---
Particles >38µm	ASTM D7647	>4	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>17/15/12</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>&lt;1</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>&lt;1</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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0957760  
**Lab Number** : **06220276**  
**Unique Number** : 11098473  
**Test Package** : DF-2 ( Additional Tests: Fuel, Screen )  
**Received** : 25 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 28 Jun 2024 - Elizabeth Valachovic

**PETROLEUM RECOVERY SERVICES**  
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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)