



# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area  
**QTS CHICAGO**  
 Machine Id  
**[QTS CHICAGO] GEN F3**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (5000 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. 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>WC06185729</b>	---	---
Sample Date	Client Info	<b>20 May 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>Red</b>	---
ASTM Color	scalar *ASTM D1500		<b>L4.5</b>	---
Visc @ 40°C	cSt ASTM D445	3.0	<b>3.05</b>	---
Pensky-Martens Flash Point	°C *PMCC Calculated	52	<b>66.7</b>	---

## SULFUR CONTENT

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

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	<b>179</b>	---
5% Distillation Point	°C ASTM D86		<b>208</b>	---
10% Distill Point	°C ASTM D86	201	<b>219</b>	---
15% Distillation Point	°C ASTM D86		<b>227</b>	---
20% Distill Point	°C ASTM D86	216	<b>234</b>	---
30% Distill Point	°C ASTM D86	230	<b>247</b>	---
40% Distill Point	°C ASTM D86	243	<b>258</b>	---
50% Distill Point	°C ASTM D86	255	<b>268</b>	---
60% Distill Point	°C ASTM D86	267	<b>281</b>	---
70% Distill Point	°C ASTM D86	280	<b>293</b>	---
80% Distill Point	°C ASTM D86	295	<b>307</b>	---
85% Distillation Point	°C ASTM D86		<b>316</b>	---
90% Distill Point	°C ASTM D86	310	<b>326</b>	---
95% Distillation Point	°C ASTM D86		<b>342</b>	---
Final Boiling Point	°C ASTM D86	341	<b>354</b>	---

## IGNITION QUALITY

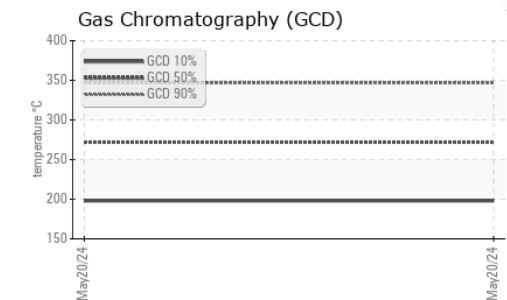
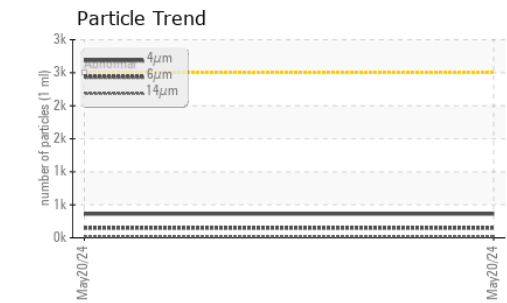
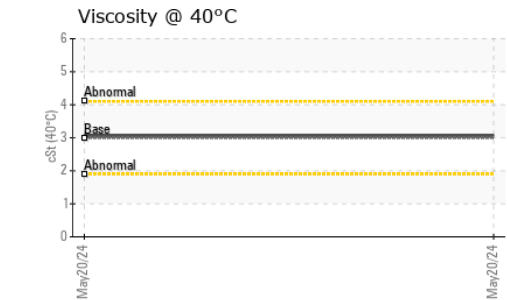
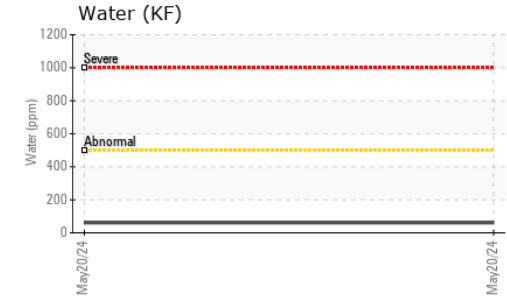
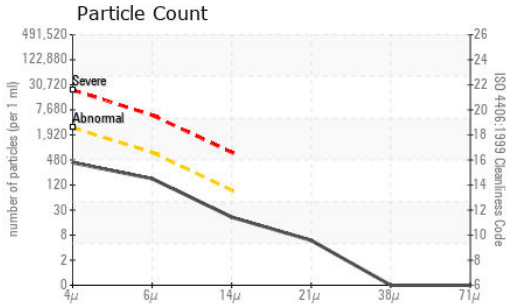
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	<b>32</b>	---
Cetane Index	ASTM D4737	<40.0	<b>43</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<1.0	<b>0</b>	---
Sodium	ppm ASTM D5185m	<0.1	<b>0</b>	---
Potassium	ppm ASTM D5185m	<0.1	<b>0</b>	---
Water	% ASTM D6304	<0.05	<b>0.006</b>	---
ppm Water	ppm ASTM D6304	<500	<b>61</b>	---
% Gasoline	% *In-House	<0.50	<b>0.0</b>	---
% Biodiesel	% *In-House	<20.0	<b>0.0</b>	---



# FUEL REPORT

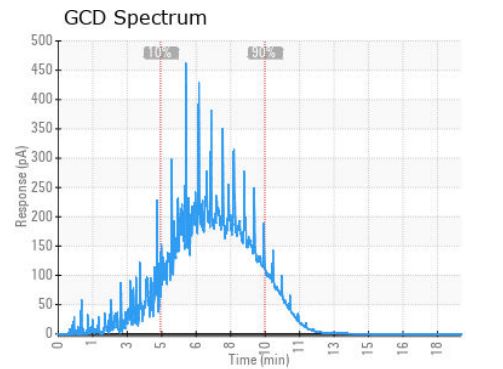
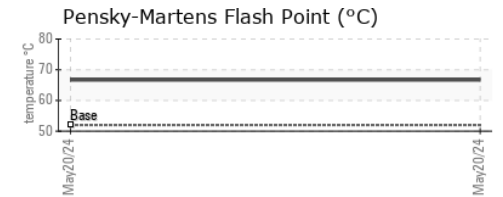
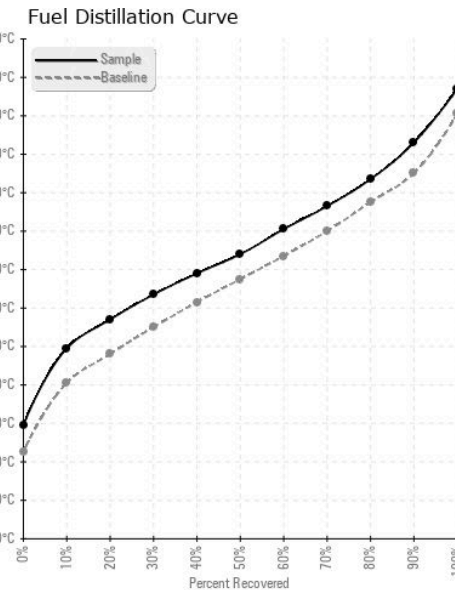


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>362</b>	---	---
Particles >6µm	ASTM D7647	>640	<b>150</b>	---	---
Particles >14µm	ASTM D7647	>80	<b>18</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>5</b>	---	---
Particles >38µm	ASTM D7647	>4	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>16/14/11</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>0</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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC06185729

Lab Number : **06185729**

Unique Number : 11037055

Test Package : DF-2 ( Additional Tests: 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)

Received : 20 May 2024

Tested : 28 May 2024

Diagnosed : 28 May 2024 - Doug Bogart

PETROLEUM RECOVERY SERVICES

210 POWELL DR

SUMMERVILLE, SC

US 29483

Contact: AJAY EL

Ajay@prsfuel.com

T: (843)225-1777

F: