



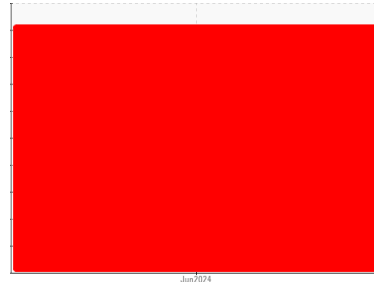
# FUEL REPORT

Sample Rating Trend

WATER



Area  
**CITY OF ROCK HILL [17783]**  
 Machine Id  
**[CITY OF ROCK HILL] CITY HALL**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (10000 GAL)**



## DIAGNOSIS

### ▲ Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system. There is too much contamination present in this sample to perform a particle count.

### ▲ Corrosion

The iron level is abnormal.

### ▲ Contaminants

Excessive free water present. There is a high amount of visible silt present in the sample. High concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

### Fuel Condition

The water concentration level is much higher than acceptable for this fluid. Sulfur value derived by ASTM D5453 method for ULSD validation.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0957746</b>	---	---
Sample Date	Client Info		<b>25 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yellow	<b>Red</b>	---
ASTM Color	scalar	*ASTM D1500		<b>L5.0</b>	---
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.4</b>	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	<b>60.3</b>	---

## SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>47</b>	---
Sulfur (UVF)	ppm	ASTM D5453		<b>58</b>	---

## DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	<b>171</b>	---
5% Distillation Point	°C	ASTM D86		<b>195</b>	---
10% Distill Point	°C	ASTM D86	201	<b>205</b>	---
15% Distillation Point	°C	ASTM D86		<b>212</b>	---
20% Distill Point	°C	ASTM D86	216	<b>220</b>	---
30% Distill Point	°C	ASTM D86	230	<b>235</b>	---
40% Distill Point	°C	ASTM D86	243	<b>248</b>	---
50% Distill Point	°C	ASTM D86	255	<b>261</b>	---
60% Distill Point	°C	ASTM D86	267	<b>274</b>	---
70% Distill Point	°C	ASTM D86	280	<b>287</b>	---
80% Distill Point	°C	ASTM D86	295	<b>302</b>	---
85% Distillation Point	°C	ASTM D86		<b>313</b>	---
90% Distill Point	°C	ASTM D86	310	<b>323</b>	---
95% Distillation Point	°C	ASTM D86		<b>342</b>	---
Final Boiling Point	°C	ASTM D86	341	<b>360</b>	---

## IGNITION QUALITY

	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	<b>36</b>	---	---
Cetane Index	ASTM D4737	<40.0	<b>47</b>	---	---

## CONTAMINANTS

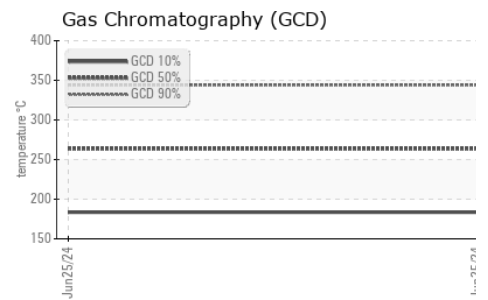
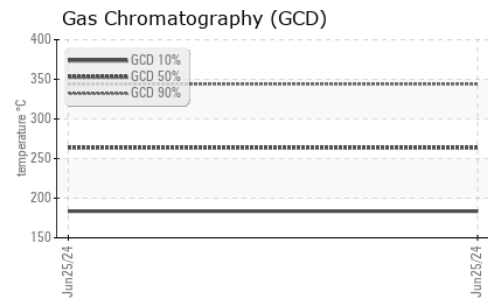
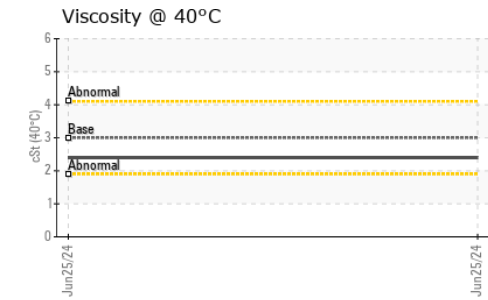
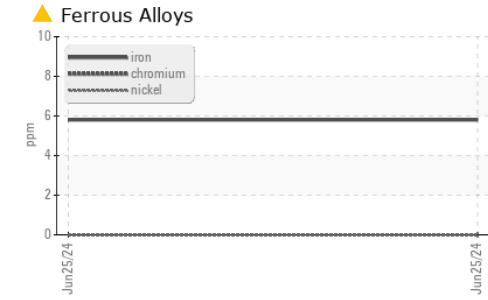
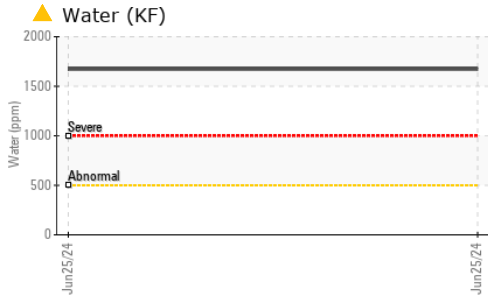
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	---
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	---
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	---
Water	%	ASTM D6304	<0.05	<b>▲ 0.167</b>	---
ppm Water	ppm	ASTM D6304	<500	<b>▲ 1673</b>	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---

## MICROBIAL

	method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	<b>0</b>	---
Yeast	CFU/ml	WC-Method	>=100000	<b>0</b>	---
Mold	Colonies	WC-Method	MODER	---	---



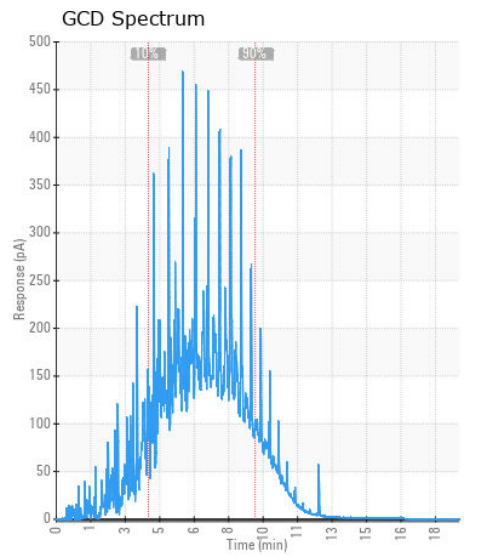
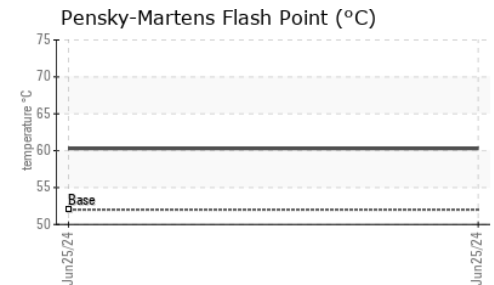
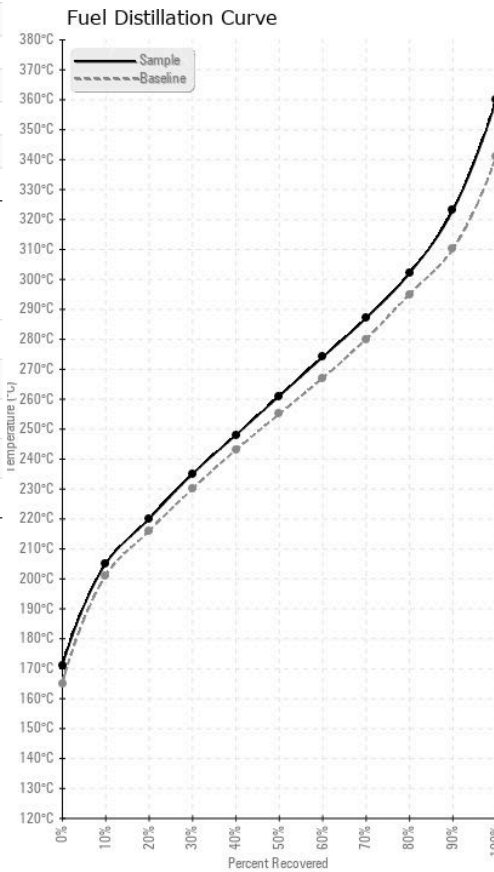
# FUEL REPORT



HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>1</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>▲ 6</b>	---	---
Calcium	ppm	ASTM D5185m	<0.1	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	<b>2</b>	---	---
Zinc	ppm	ASTM D5185m	<0.1	<b>8</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. : WC0957746

Lab Number : 06220302

Unique Number : 11098499

Test Package : DF-2 ( Additional Tests: Bacteria, 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 : 25 Jun 2024

Tested : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Doug Bogart

PETROLEUM RECOVERY SERVICES

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US 29483

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