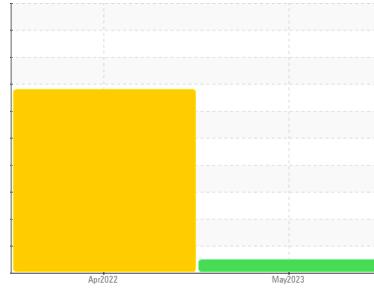




# FUEL REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**LAWNWOOD CEP**

Component  
**Diesel Fuel**  
Fluid  
**DDSL (8000 GAL)**

## DIAGNOSIS

### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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, Yeast and/or Fungus 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC05854745</b>	WCDF04638	---
Sample Date	Client Info			<b>16 May 2023</b>	28 Apr 2022	---
Machine Age	mls	Client Info		<b>0</b>	0	---
Sample Status				<b>NORMAL</b>	SEVERE	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		<b>0.836</b>	---	---
Fuel Color	text	*Visual Screen		<b>Red</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>2.4</b>	2.37	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>57</b>	---	---
Cloud Point	°C	ASTM D5771		<b>-12</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>0</b>	23	---
Sulfur (UVF)	ppm	ASTM D5453		<b>12</b>	23	---

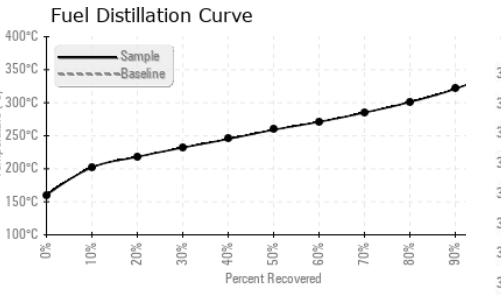
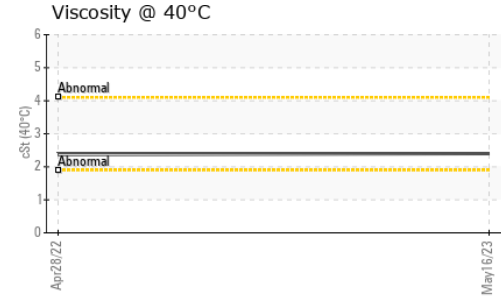
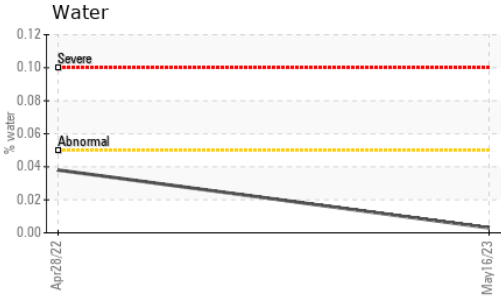
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>160</b>	---	---
5% Distillation Point	°C	ASTM D86		<b>189</b>	---	---
10% Distill Point	°C	ASTM D86		<b>202</b>	---	---
15% Distillation Point	°C	ASTM D86		<b>210</b>	---	---
20% Distill Point	°C	ASTM D86		<b>218</b>	---	---
30% Distill Point	°C	ASTM D86		<b>232</b>	---	---
40% Distill Point	°C	ASTM D86		<b>245</b>	---	---
50% Distill Point	°C	ASTM D86		<b>259</b>	---	---
60% Distill Point	°C	ASTM D86		<b>271</b>	---	---
70% Distill Point	°C	ASTM D86		<b>285</b>	---	---
80% Distill Point	°C	ASTM D86		<b>301</b>	---	---
85% Distillation Point	°C	ASTM D86		<b>310</b>	---	---
90% Distill Point	°C	ASTM D86		<b>321</b>	---	---
95% Distillation Point	°C	ASTM D86		<b>338</b>	---	---
Final Boiling Point	°C	ASTM D86		<b>348</b>	---	---
Distillation Residue	%	ASTM D86		<b>1.4</b>	---	---
Distillation Loss	%	ASTM D86		<b>0.7</b>	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>37.8</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>49.6</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	---
Water	%	ASTM D6304	<0.05	<b>0.003</b>	▲ 0.038	---
ppm Water	ppm	ASTM D6304	<500	<b>39.4</b>	▲ 388.5	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	---



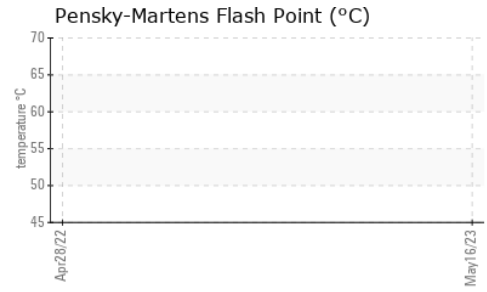
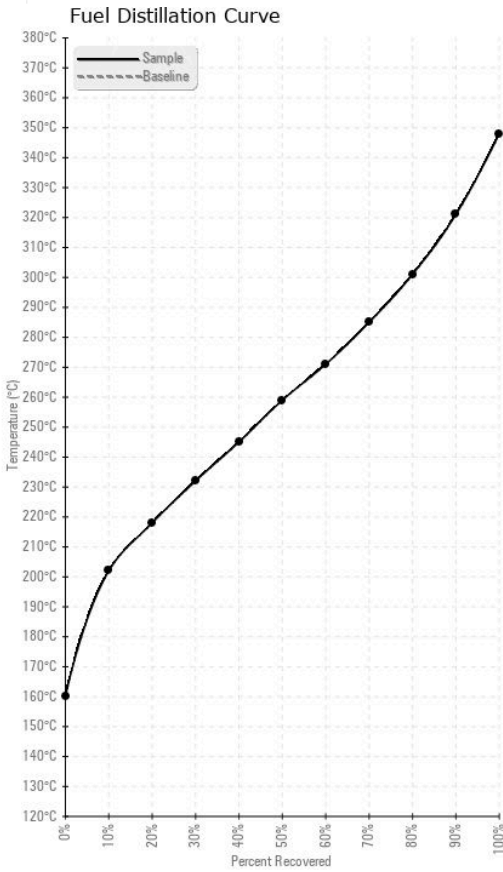
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	0	---
Iron	ppm	ASTM D5185m	<0.1	0	<1	---
Calcium	ppm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

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC05854745 **Received** : 23 May 2023  
**Lab Number** : 05854745 **Diagnosed** : 30 May 2023  
**Unique Number** : 10484100 **Diagnostician** : Aaron Black  
**Test Package** : DF-2 ( Additional Tests: CLDPT, Screen )

**TANK WIZARDS**  
 1511 MASTERS RD NW  
 PALM BAY, FL  
 US 32907  
 Contact: WENDALL STRODERD  
 wendall@tankwizards.com  
 T: (321)427-5149  
 F: (321)574-4131

Certificate L2367  
 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)