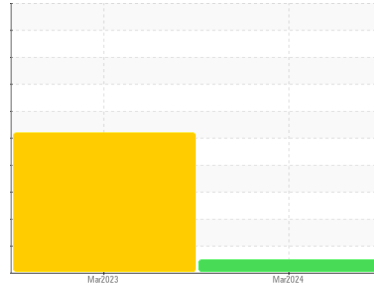




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**HF ADMIN GEN**

Component  
**Diesel Fuel**  
Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (500 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

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.

### 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>WCDF4538</b>	WCDF4358	---
Sample Date	Client Info			<b>12 Mar 2024</b>	16 Mar 2023	---
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	0.839	---	0.841	---
Fuel Color	text	*Visual Screen	Yllow	<b>Red</b>	Red	---
ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	L4.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.46</b>	2.59	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	<b>69.6</b>	64	---
Cloud Point	°C	ASTM D5771		<b>-14</b>	-13	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>88</b>	0	---
Sulfur (UVF)	ppm	ASTM D5453		<b>24</b>	12	---

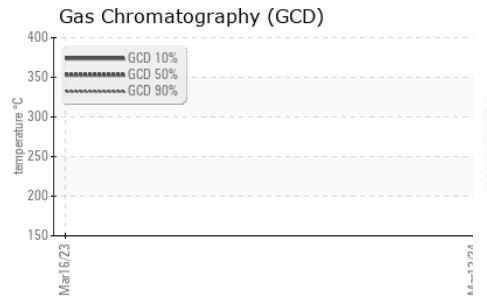
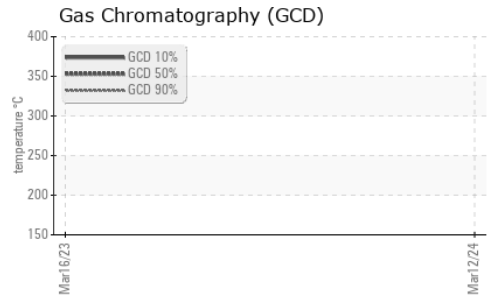
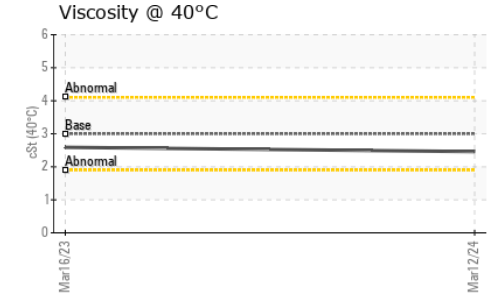
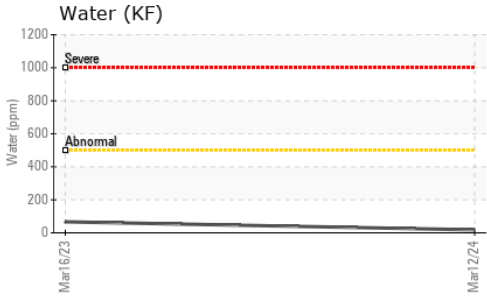
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	<b>181</b>	174	---
5% Distillation Point	°C	ASTM D86		<b>200</b>	194	---
10% Distill Point	°C	ASTM D86	201	<b>206</b>	203	---
15% Distillation Point	°C	ASTM D86		<b>212</b>	211	---
20% Distill Point	°C	ASTM D86	216	<b>219</b>	218	---
30% Distill Point	°C	ASTM D86	230	<b>231</b>	233	---
40% Distill Point	°C	ASTM D86	243	<b>243</b>	246	---
50% Distill Point	°C	ASTM D86	255	<b>255</b>	260	---
60% Distill Point	°C	ASTM D86	267	<b>269</b>	275	---
70% Distill Point	°C	ASTM D86	280	<b>284</b>	289	---
80% Distill Point	°C	ASTM D86	295	<b>300</b>	306	---
85% Distillation Point	°C	ASTM D86		<b>312</b>	316	---
90% Distill Point	°C	ASTM D86	310	<b>323</b>	328	---
95% Distillation Point	°C	ASTM D86		<b>342</b>	344	---
Final Boiling Point	°C	ASTM D86	341	<b>357</b>	354	---
Distillation Residue	%	ASTM D86	3.0	---	1.4	---
Distillation Loss	%	ASTM D86	3.0	---	0.5	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>36.9</b>	36.8	---
Cetane Index		ASTM D4737	<40.0	<b>47</b>	48.1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	---
Water	%	ASTM D6304	<0.05	<b>0.002</b>	0.006	---
ppm Water	ppm	ASTM D6304	<500	<b>18</b>	66.8	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	1.1	---



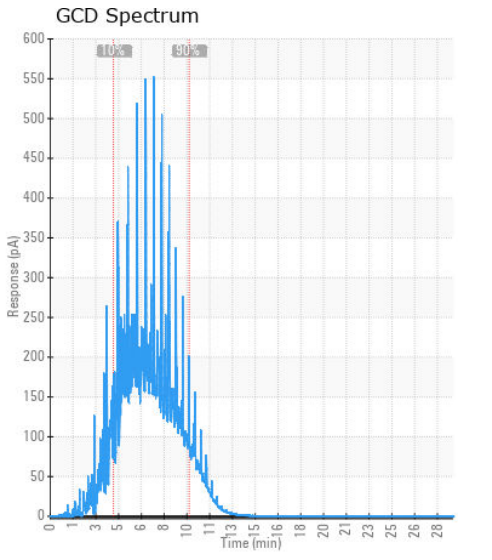
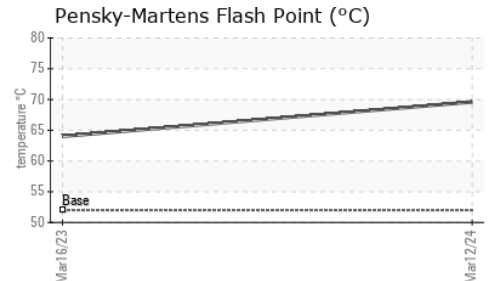
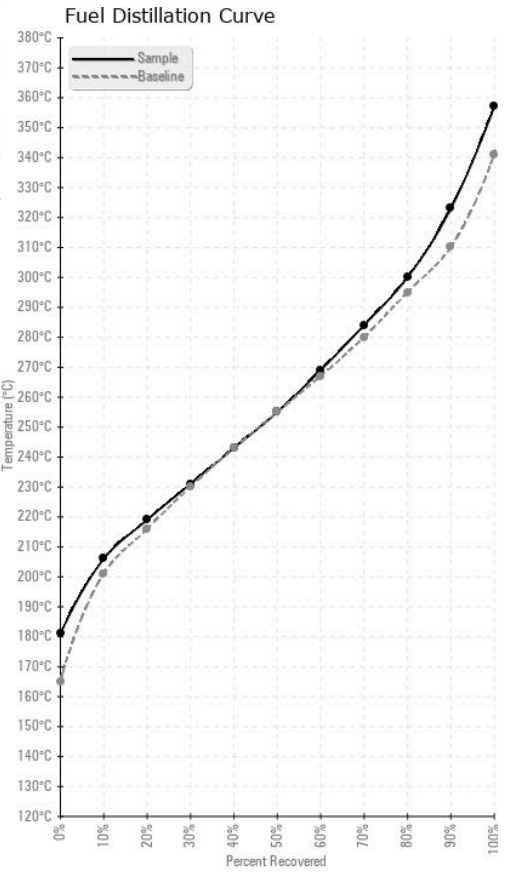
# FUEL REPORT



HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	<1	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	<1	---
Iron	ppm	ASTM D5185m	<0.1	0	0	---
Calcium	ppm	ASTM D5185m	<0.1	<1	0	---
Magnesium	ppm	ASTM D5185m	<0.1	0	3	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	6	---
Zinc	ppm	ASTM D5185m	<0.1	0	0	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WCDF4538 **Received** : 18 Mar 2024  
**Lab Number** : 06121289 **Tested** : 01 Apr 2024  
**Unique Number** : 10930122 **Diagnosed** : 01 Apr 2024 - Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: CldPt, Fuel, 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

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)