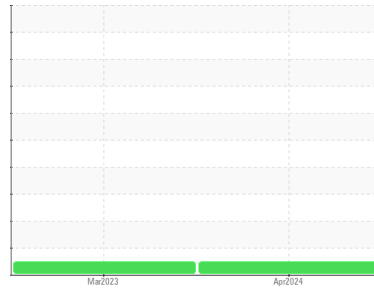




# FUEL REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

## HF BUSINESS CENTER DAY TANK 2

Component

**Diesel Fuel**

Fluid

**DDSL (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>WCDF4608</b>	WCDF4356	---
Sample Date	Client Info			<b>18 Apr 2024</b>	16 Mar 2023	---
Machine Age	mls	Client Info		<b>0</b>	0	---
Sample Status				<b>NORMAL</b>	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		---	0.840	---
Fuel Color	text	*Visual Screen		<b>Red</b>	Red	---
ASTM Color	scalar	*ASTM D1500		<b>L5.5</b>	L4.5	---
Visc @ 40°C	cSt	ASTM D445		<b>2.56</b>	2.32	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>67.1</b>	63	---
Cloud Point	°C	ASTM D5771		<b>-11</b>	-12	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>0</b>	0	---
Sulfur (UVF)	ppm	ASTM D5453		<b>27</b>	25	---

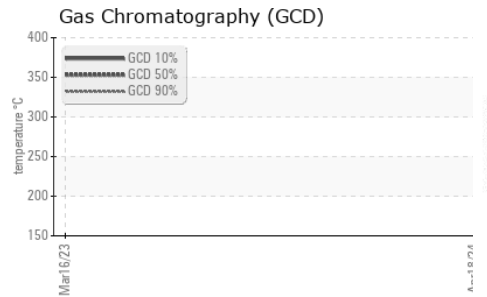
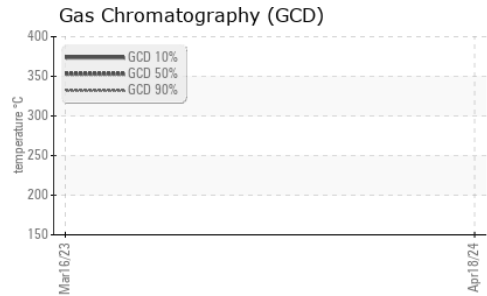
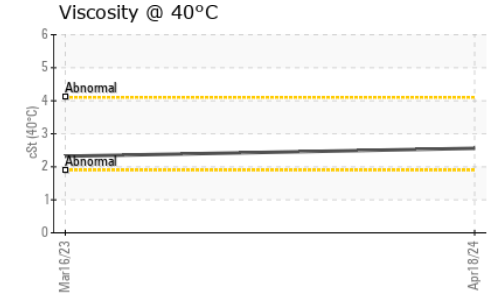
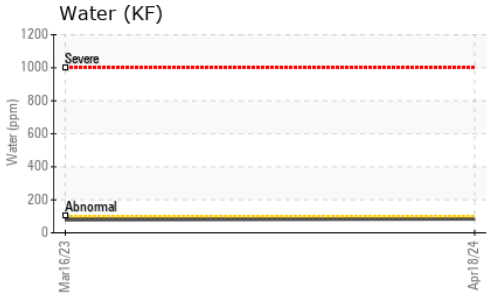
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>179</b>	172	---
5% Distillation Point	°C	ASTM D86		<b>200</b>	200	---
10% Distill Point	°C	ASTM D86		<b>209</b>	209	---
15% Distillation Point	°C	ASTM D86		<b>217</b>	215	---
20% Distill Point	°C	ASTM D86		<b>224</b>	223	---
30% Distill Point	°C	ASTM D86		<b>238</b>	237	---
40% Distill Point	°C	ASTM D86		<b>252</b>	251	---
50% Distill Point	°C	ASTM D86		<b>265</b>	264	---
60% Distill Point	°C	ASTM D86		<b>278</b>	278	---
70% Distill Point	°C	ASTM D86		<b>292</b>	292	---
80% Distill Point	°C	ASTM D86		<b>307</b>	307	---
85% Distillation Point	°C	ASTM D86		<b>318</b>	316	---
90% Distill Point	°C	ASTM D86		<b>328</b>	327	---
95% Distillation Point	°C	ASTM D86		<b>345</b>	344	---
Final Boiling Point	°C	ASTM D86		<b>360</b>	351	---
Distillation Residue	%	ASTM D86		---	1.4	---
Distillation Loss	%	ASTM D86		---	0.6	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>37</b>	37.0	---
Cetane Index		ASTM D4737	<40.0	<b>50</b>	49.6	---

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>0</b>	0	---
Water	%	ASTM D6304	<0.05	<b>0.008</b>	0.007	---
ppm Water	ppm	ASTM D6304	<500	<b>84</b>	79.0	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	---



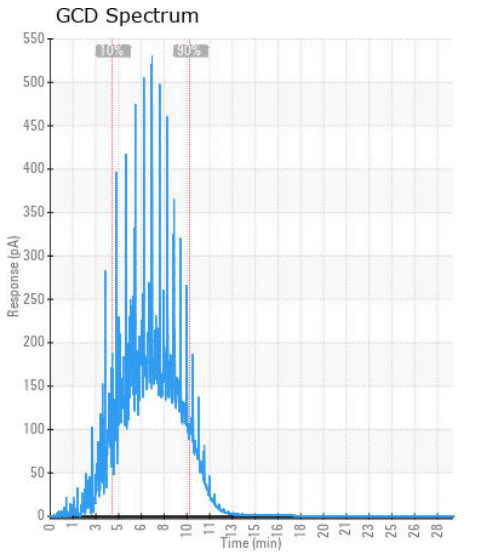
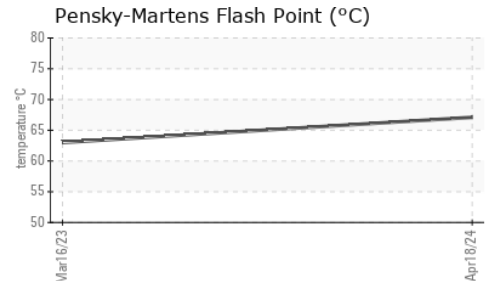
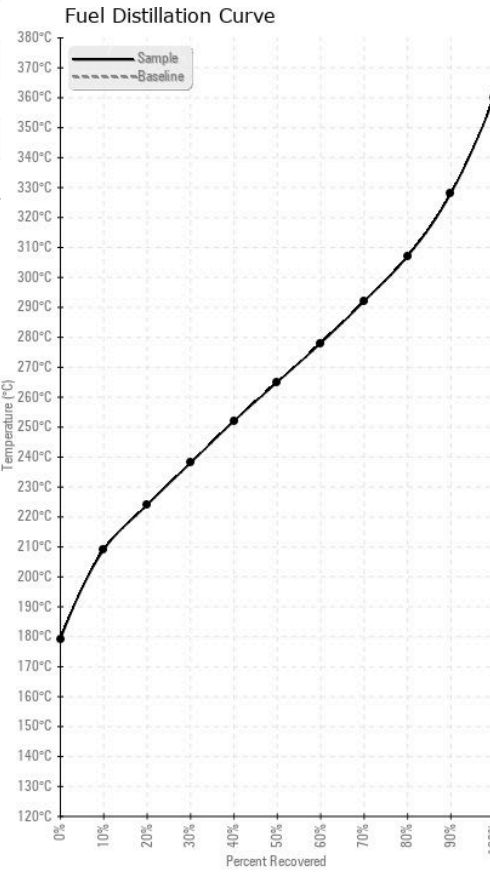
# FUEL REPORT



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	0	0	---
Magnesium	ppm	ASTM D5185m	<0.1	0	4	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	7	---
Zinc	ppm	ASTM D5185m	<0.1	2	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.** : WCDF4608 **Received** : 23 Apr 2024  
**Lab Number** : 06158218 **Tested** : 06 May 2024  
**Unique Number** : 10993641 **Diagnosed** : 06 May 2024 - Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: CldPt, Fuel, PrtCount, 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)