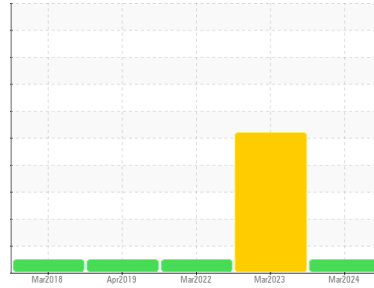




# FUEL REPORT

## Sample Rating Trend

**NORMAL**



## Machine Id VIERA MED PLAZA CHILLER

Component  
**Diesel Fuel**  
Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (250 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>WCDF4543</b>	WCDF4332	WCDF04411
Sample Date	Client Info			<b>12 Mar 2024</b>	16 Mar 2023	07 Mar 2022
Machine Age	mls	Client Info		<b>0</b>	0	0
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	---	0.841	0.841
Fuel Color	text	*Visual Screen	Yllow	<b>Red</b>	Red	Red
ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	L4.5	L5.0
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.62</b>	2.69	2.69
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	<b>65.5</b>	62	66
Cloud Point	°C	ASTM D5771		<b>-11</b>	-12	-11

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	<b>36</b>	0	23
Sulfur (UVF)	ppm	ASTM D5453		<b>42</b>	28	23

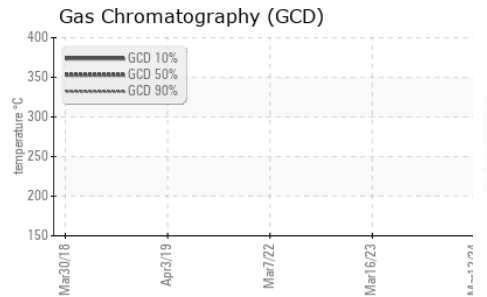
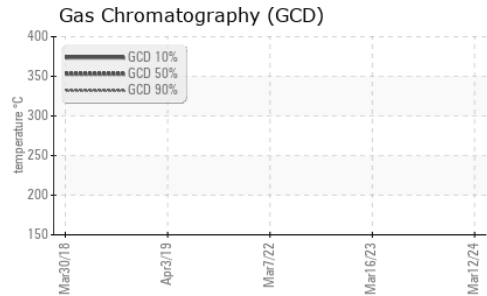
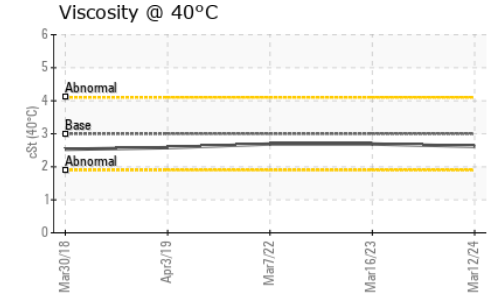
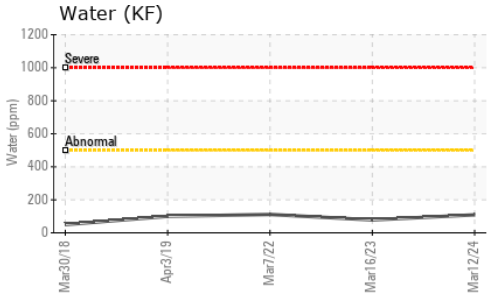
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	<b>177</b>	170	163
5% Distillation Point	°C	ASTM D86		<b>198</b>	193	193
10% Distill Point	°C	ASTM D86	201	<b>208</b>	204	206
15% Distillation Point	°C	ASTM D86		<b>216</b>	212	214
20% Distill Point	°C	ASTM D86	216	<b>224</b>	220	222
30% Distill Point	°C	ASTM D86	230	<b>240</b>	236	238
40% Distill Point	°C	ASTM D86	243	<b>253</b>	250	252
50% Distill Point	°C	ASTM D86	255	<b>266</b>	264	265
60% Distill Point	°C	ASTM D86	267	<b>279</b>	278	279
70% Distill Point	°C	ASTM D86	280	<b>293</b>	292	293
80% Distill Point	°C	ASTM D86	295	<b>308</b>	308	308
85% Distillation Point	°C	ASTM D86		<b>318</b>	317	317
90% Distill Point	°C	ASTM D86	310	<b>328</b>	328	328
95% Distillation Point	°C	ASTM D86		<b>345</b>	344	343
Final Boiling Point	°C	ASTM D86	341	<b>359</b>	352	351
Distillation Residue	%	ASTM D86	3.0	---	1.4	1.4
Distillation Loss	%	ASTM D86	3.0	---	0.8	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>36.7</b>	36.8	36.8
Cetane Index		ASTM D4737	<40.0	<b>49</b>	49.0	49.2

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	1	0
Potassium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	1
Water	%	ASTM D6304	<0.05	<b>0.010</b>	0.007	0.011
ppm Water	ppm	ASTM D6304	<500	<b>109</b>	78.3	111.2
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	0.0
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	0.0



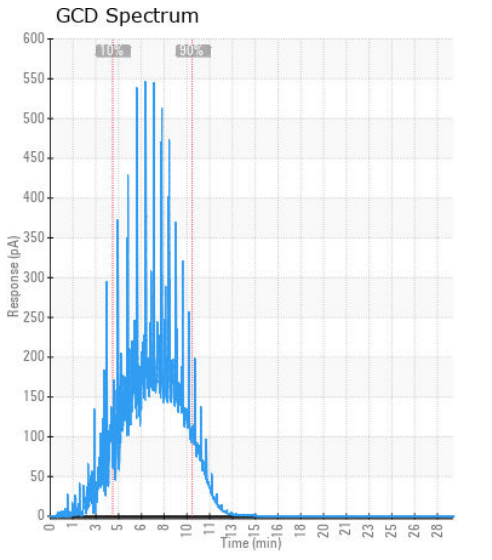
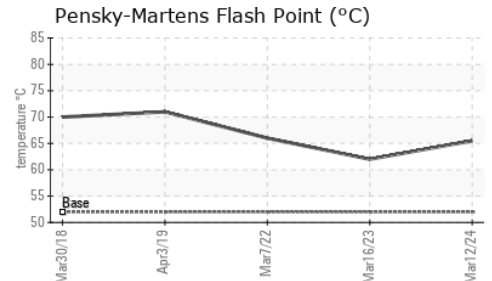
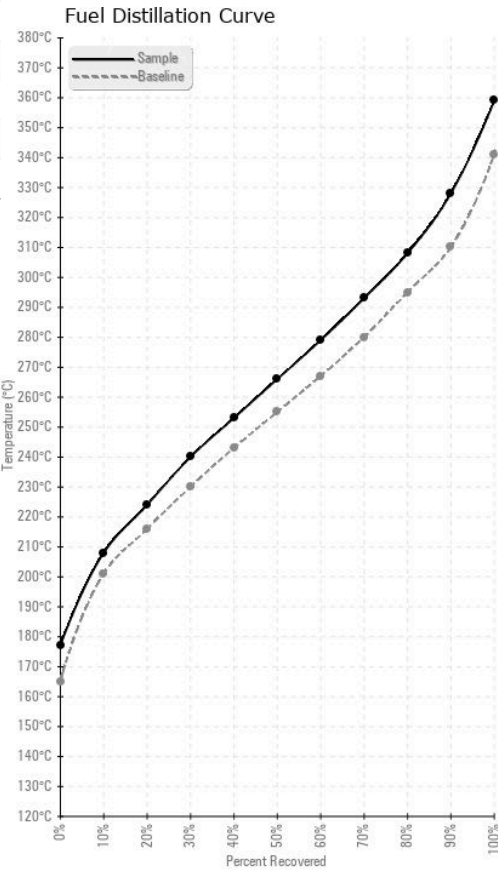
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	<1	<1
Nickel	ppm	ASTM D5185m	<0.1	0	0	0
Lead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m	<0.1	0	<1	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m	<0.1	<1	0	0
Magnesium	ppm	ASTM D5185m	<0.1	0	4	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	7	4
Zinc	ppm	ASTM D5185m	<0.1	0	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.** : WCDF4543  
**Lab Number** : 06121310  
**Unique Number** : 10930143  
**Test Package** : DF-2 ( Additional Tests: Bacteria, 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)