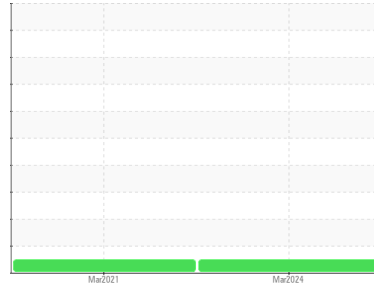




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
VIERA HOSPITAL DAY 1

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WCDF4550	WCDF02752	---
Sample Date	Client Info			12 Mar 2024	10 Mar 2021	---
Machine Age	mls	Client Info		0	0	---
Sample Status				NORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	---	0.845	---
Fuel Color	text	*Visual Screen	Yellow	Red	Red	---
ASTM Color	scalar	*ASTM D1500		L4.5	L5.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.62	2.75	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	64.9	67	---
Cloud Point	°C	ASTM D5771		-11	-11	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	23	14	---
Sulfur (UVF)	ppm	ASTM D5453		15	24	---

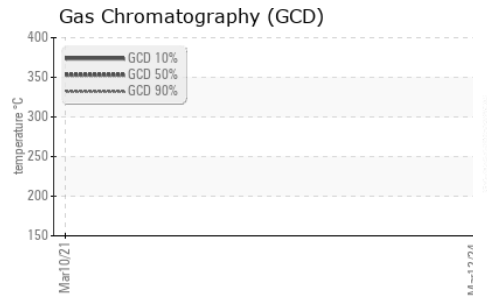
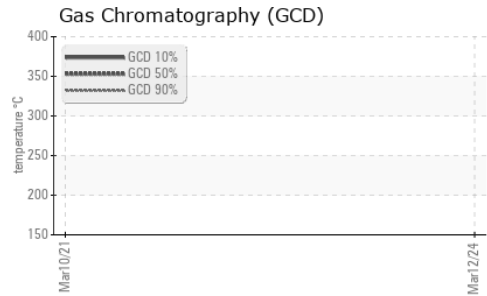
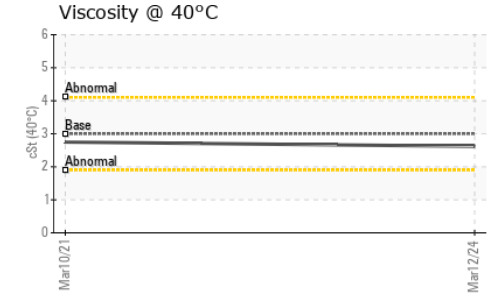
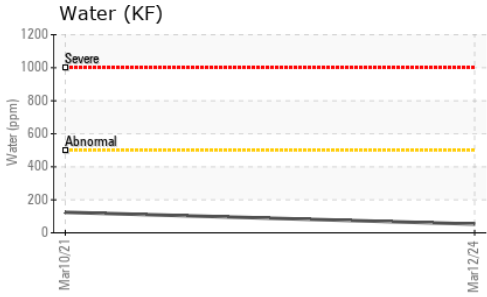
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	177	172	---
5% Distillation Point	°C	ASTM D86		200	199	---
10% Distill Point	°C	ASTM D86	201	210	209	---
15% Distillation Point	°C	ASTM D86		218	217	---
20% Distill Point	°C	ASTM D86	216	226	224	---
30% Distill Point	°C	ASTM D86	230	240	238	---
40% Distill Point	°C	ASTM D86	243	253	251	---
50% Distill Point	°C	ASTM D86	255	265	263	---
60% Distill Point	°C	ASTM D86	267	278	276	---
70% Distill Point	°C	ASTM D86	280	291	290	---
80% Distill Point	°C	ASTM D86	295	306	306	---
85% Distillation Point	°C	ASTM D86		316	315	---
90% Distill Point	°C	ASTM D86	310	326	327	---
95% Distillation Point	°C	ASTM D86		344	344	---
Final Boiling Point	°C	ASTM D86	341	358	353	---
Distillation Residue	%	ASTM D86	3.0	---	1.4	---
Distillation Loss	%	ASTM D86	3.0	---	0.8	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	35.9	36.0	---
Cetane Index		ASTM D4737	<40.0	48	47.6	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	---
Sodium	ppm	ASTM D5185m	<0.1	<1	0	---
Potassium	ppm	ASTM D5185m	<0.1	<1	11	---
Water	%	ASTM D6304	<0.05	0.005	0.012	---
ppm Water	ppm	ASTM D6304	<500	53	124.5	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---



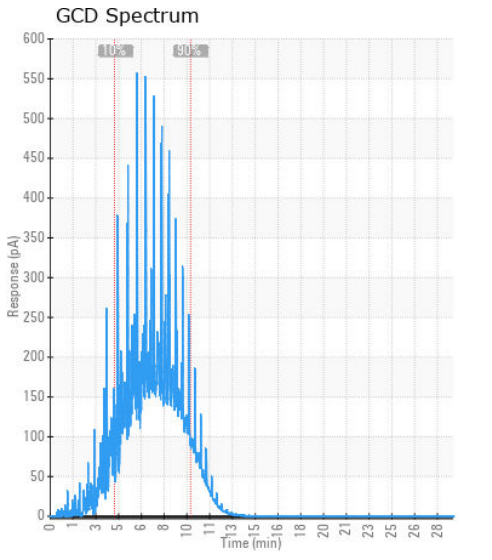
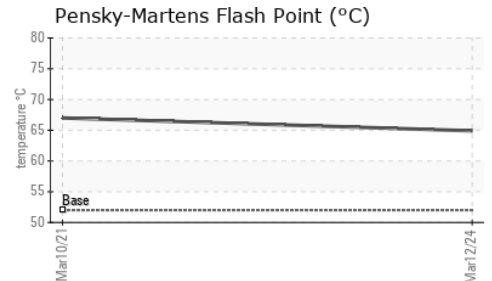
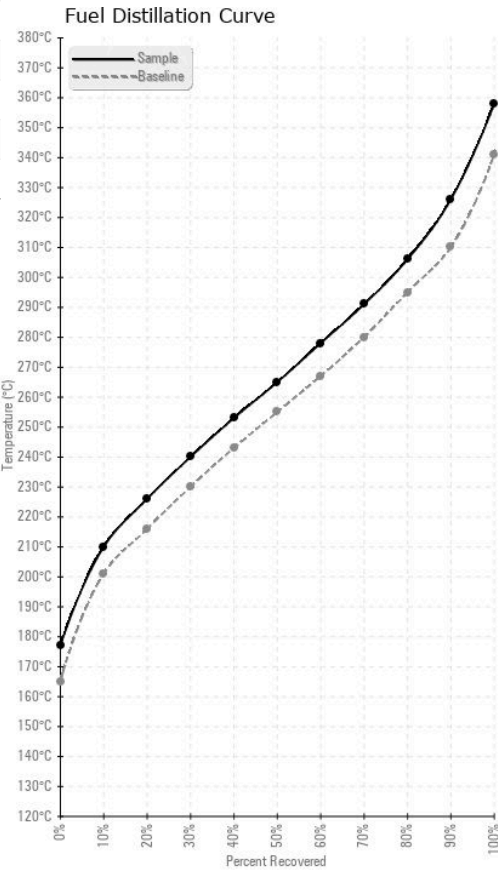
FUEL REPORT



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	<1	---
Vanadium	ppm	ASTM D5185m	<0.1	0	0	---
Iron	ppm	ASTM D5185m	<0.1	0	<1	---
Calcium	ppm	ASTM D5185m	<0.1	<1	0	---
Magnesium	ppm	ASTM D5185m	<0.1	0	0	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	0	---
Zinc	ppm	ASTM D5185m	<0.1	0	0	---

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. : WCDF4550 **Received** : 18 Mar 2024
Lab Number : 06121300 **Tested** : 01 Apr 2024
Unique Number : 10930133 **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)