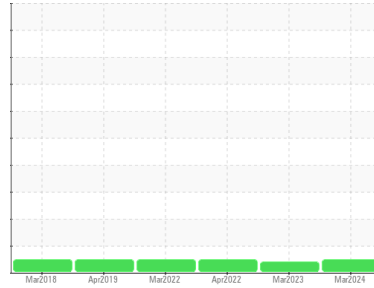




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id

VIERA DT2

Component

Diesel Fuel

Fluid

{not provided} (275 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			WCDF4551	WCDF4357	WCDF04628
Sample Date	Client Info			12 Mar 2024	16 Mar 2023	12 Apr 2022
Machine Age	mls	Client Info		0	0	0
Sample Status				NORMAL	ABNORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.844	0.845	---
Fuel Color	text	*Visual Screen		Red	Red	---
ASTM Color	scalar	*ASTM D1500		L4.5	L5.0	L4.5
Visc @ 40°C	cSt	ASTM D445		2.63	2.73	2.69
Pensky-Martens Flash Point	°C	*PMCC Calculated		65.3	62	---
Cloud Point	°C	ASTM D5771		-11	-11	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		128	0	10
Sulfur (UVF)	ppm	ASTM D5453		15	22	20

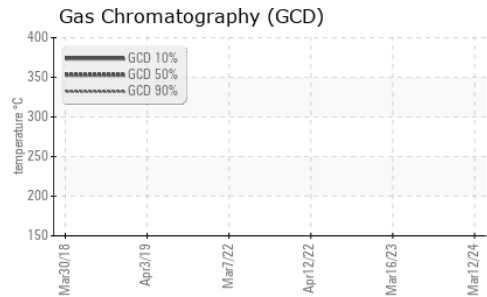
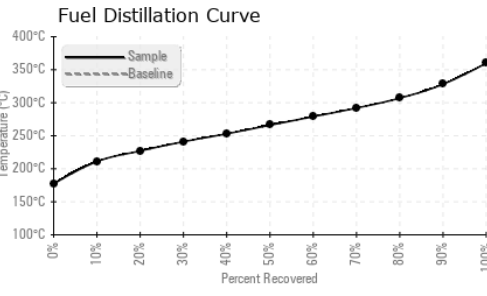
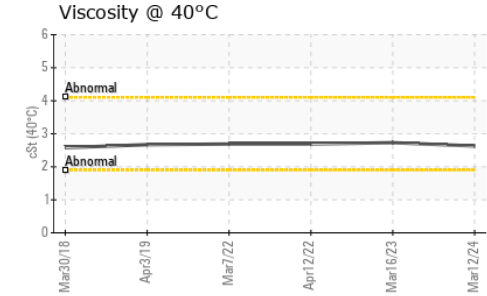
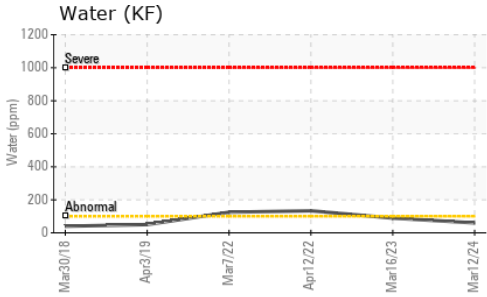
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		177	171	---
5% Distillation Point	°C	ASTM D86		201	197	---
10% Distill Point	°C	ASTM D86		211	209	---
15% Distillation Point	°C	ASTM D86		219	218	---
20% Distill Point	°C	ASTM D86		227	225	---
30% Distill Point	°C	ASTM D86		241	238	---
40% Distill Point	°C	ASTM D86		253	251	---
50% Distill Point	°C	ASTM D86		266	264	---
60% Distill Point	°C	ASTM D86		279	277	---
70% Distill Point	°C	ASTM D86		292	291	---
80% Distill Point	°C	ASTM D86		307	307	---
85% Distillation Point	°C	ASTM D86		317	316	---
90% Distill Point	°C	ASTM D86		328	327	---
95% Distillation Point	°C	ASTM D86		345	344	---
Final Boiling Point	°C	ASTM D86		360	353	---
Distillation Residue	%	ASTM D86		---	1.4	---
Distillation Loss	%	ASTM D86		---	0.7	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.0	36.0	---
Cetane Index		ASTM D4737	<40.0	48	47.9	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	1	0
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	<1
Potassium	ppm	ASTM D5185m	<0.1	<1	0	0
Water	%	ASTM D6304	<0.05	0.005	0.008	0.013
ppm Water	ppm	ASTM D6304	<500	60	89.1	133.6
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0




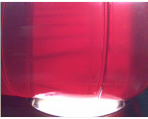
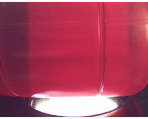
FUEL REPORT

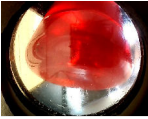
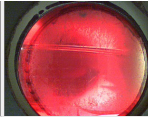
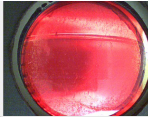


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	---	---	1676
Particles >6µm	ASTM D7647	>640	---	---	355
Particles >14µm	ASTM D7647	>80	---	---	28
Particles >21µm	ASTM D7647	>20	---	---	5
Particles >38µm	ASTM D7647	>4	---	---	0
Particles >71µm	ASTM D7647	>3	---	---	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	---	---	18/16/12

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	<1	8	0
Zinc	ppm	ASTM D5185m <0.1	0	0	0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCDF4551 **Received** : 18 Mar 2024
Lab Number : 06121287 **Tested** : 01 Apr 2024
Unique Number : 10930120 **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)