



FUEL REPORT

Sample Rating Trend

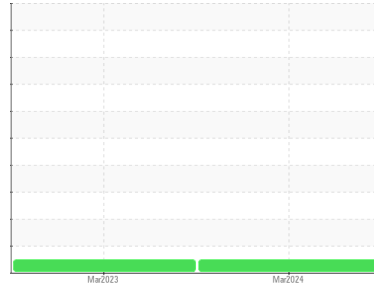
NORMAL



Machine Id
VIERA TANK 2

Component
Diesel Fuel

Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (20000 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, Yeast and/or Fungus 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 D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WCDF4541	WCDF4339	---
Sample Date	Client Info		12 Mar 2024	17 Mar 2023	---
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	0.842	---
Fuel Color	text	*Visual Screen	Red	Red	---
ASTM Color	scalar	*ASTM D1500	L4.5	L4.5	---
Visc @ 40°C	cSt	ASTM D445	2.66	2.48	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	65.2	57	---
Cloud Point	°C	ASTM D5771	-11	-13	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	27	0
Sulfur (UVF)	ppm	ASTM D5453		14	10

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	169	160
5% Distillation Point	°C	ASTM D86		198	183
10% Distill Point	°C	ASTM D86	201	208	194
15% Distillation Point	°C	ASTM D86		217	205
20% Distill Point	°C	ASTM D86	216	223	214
30% Distill Point	°C	ASTM D86	230	238	230
40% Distill Point	°C	ASTM D86	243	251	247
50% Distill Point	°C	ASTM D86	255	264	261
60% Distill Point	°C	ASTM D86	267	278	275
70% Distill Point	°C	ASTM D86	280	291	289
80% Distill Point	°C	ASTM D86	295	306	304
85% Distillation Point	°C	ASTM D86		316	314
90% Distill Point	°C	ASTM D86	310	327	326
95% Distillation Point	°C	ASTM D86		344	342
Final Boiling Point	°C	ASTM D86	341	354	353
Distillation Residue	%	ASTM D86	3.0	1.4	1.4
Distillation Loss	%	ASTM D86	3.0	0.6	0.6

IGNITION QUALITY

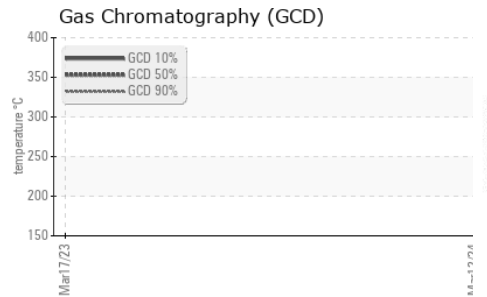
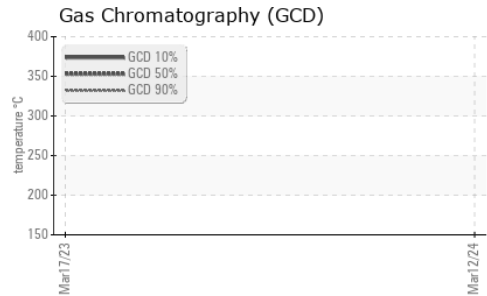
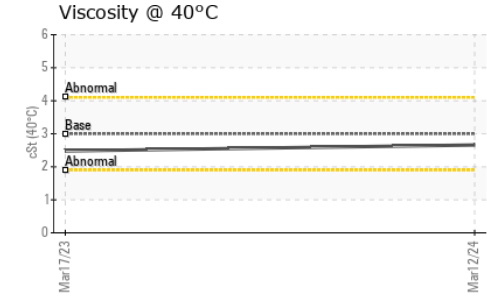
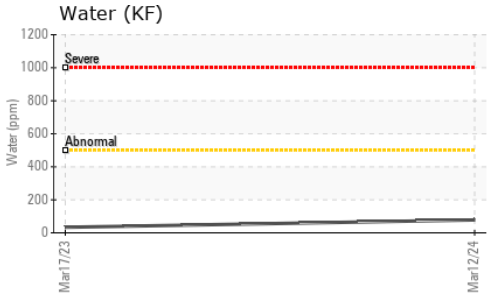
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	36.0	36.6	---
Cetane Index	ASTM D4737	<40.0	47.8	47.5	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	<1
Sodium	ppm	ASTM D5185m	<0.1	<1	<1
Potassium	ppm	ASTM D5185m	<0.1	<1	0
Water	%	ASTM D6304	<0.05	0.007	0.003
ppm Water	ppm	ASTM D6304	<500	78	33.6
% Gasoline	%	*In-House	<0.50	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0



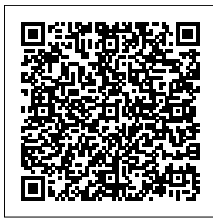
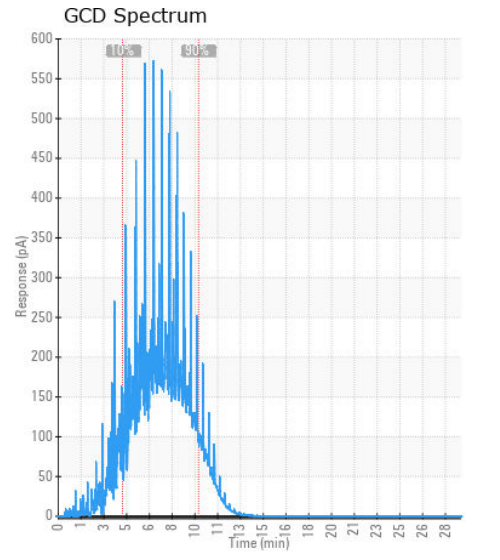
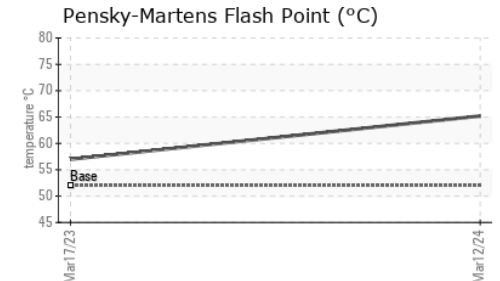
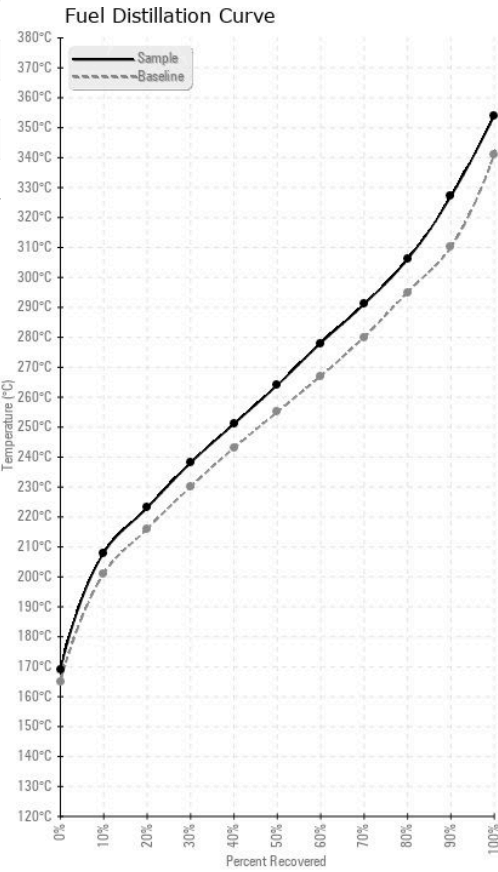
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	<1	---
Nickel	ppm	ASTM D5185m <0.1	0	0	---
Lead	ppm	ASTM D5185m <0.1	0	0	---
Vanadium	ppm	ASTM D5185m <0.1	0	<1	---
Iron	ppm	ASTM D5185m <0.1	0	0	---
Calcium	ppm	ASTM D5185m <0.1	0	0	---
Magnesium	ppm	ASTM D5185m <0.1	<1	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. : WCDF4541 **Received** : 18 Mar 2024
Lab Number : 06121296 **Tested** : 03 Apr 2024
Unique Number : 10930129 **Diagnosed** : 03 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)