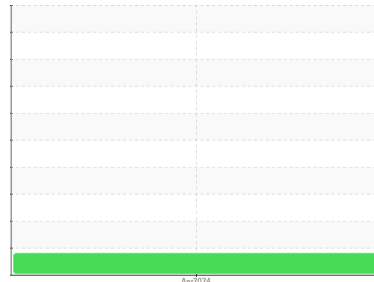




# FUEL REPORT

Sample Rating Trend



ISO



Machine Id  
**KIOTI DR4710SEHB 8073 (S/N YGG500228)**  
 Component  
**Diesel Fuel**  
 Fluid  
**DIESEL FUEL No. 2 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. 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 a moderate amount of silt (particulates < 6 microns in size) present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

### 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			<b>KT0000968</b>	---	---
Sample Date	Client Info			<b>01 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>62</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		<b>Yellow</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>L1.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445	4.1	<b>2.33</b>	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>63.3</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>0</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>7</b>	---	---

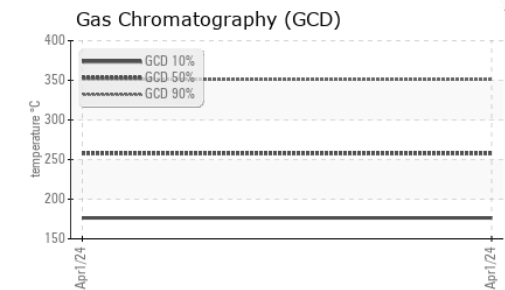
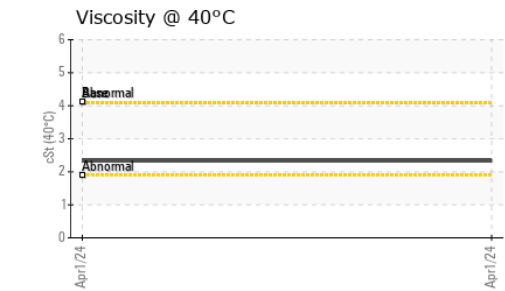
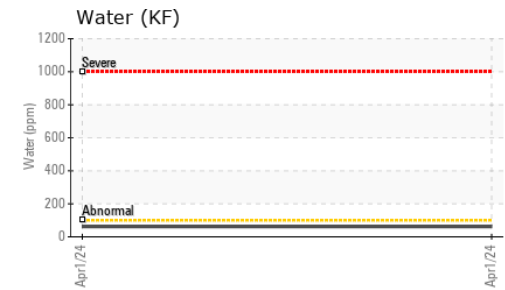
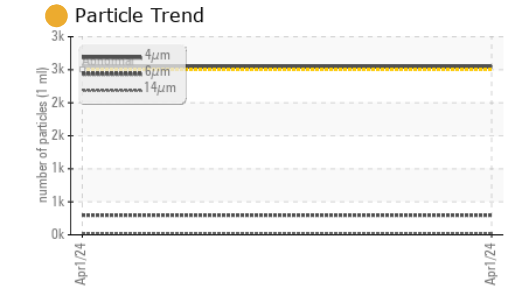
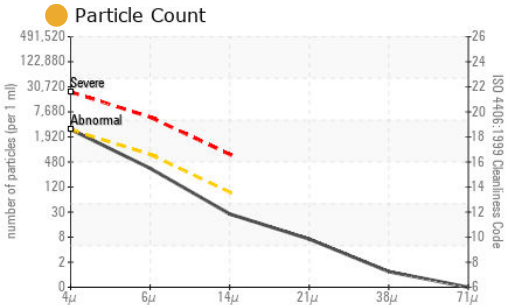
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>173</b>	---	---
5% Distillation Point	°C	ASTM D86		<b>190</b>	---	---
10% Distill Point	°C	ASTM D86		<b>197</b>	---	---
15% Distillation Point	°C	ASTM D86		<b>204</b>	---	---
20% Distill Point	°C	ASTM D86		<b>211</b>	---	---
30% Distill Point	°C	ASTM D86		<b>226</b>	---	---
40% Distill Point	°C	ASTM D86		<b>241</b>	---	---
50% Distill Point	°C	ASTM D86		<b>256</b>	---	---
60% Distill Point	°C	ASTM D86		<b>271</b>	---	---
70% Distill Point	°C	ASTM D86		<b>286</b>	---	---
80% Distill Point	°C	ASTM D86		<b>304</b>	---	---
85% Distillation Point	°C	ASTM D86		<b>314</b>	---	---
90% Distill Point	°C	ASTM D86		<b>324</b>	---	---
95% Distillation Point	°C	ASTM D86		<b>338</b>	---	---
Final Boiling Point	°C	ASTM D86		<b>353</b>	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>38</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>51</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Water	%	ASTM D6304	<0.05	<b>0.006</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>62</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>4.5</b>	---	---



# FUEL REPORT

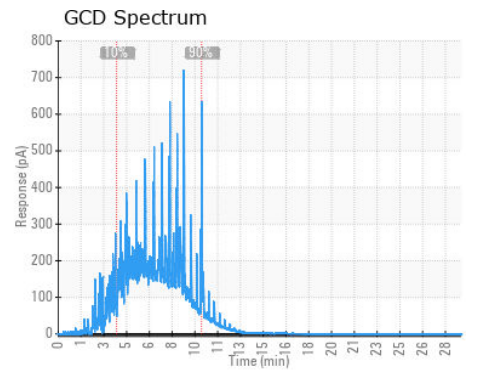
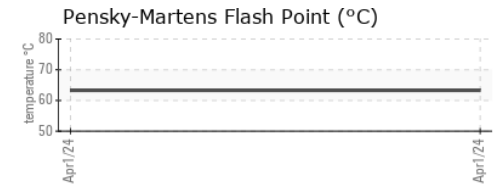
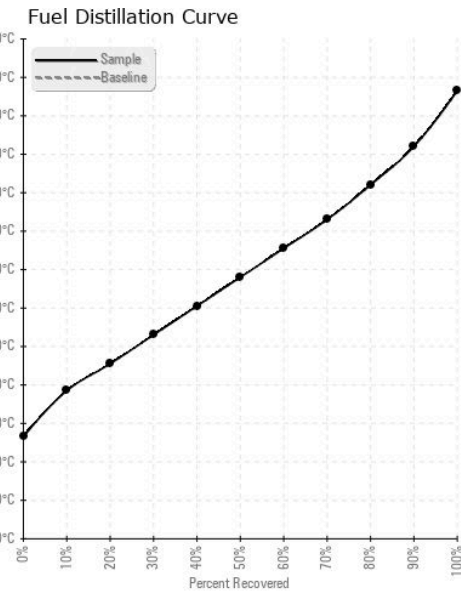


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	2542	---	---
Particles >6µm	ASTM D7647	>640	297	---	---
Particles >14µm	ASTM D7647	>80	24	---	---
Particles >21µm	ASTM D7647	>20	6	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/15/12	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	---	---
Nickel	ppm	ASTM D5185m <0.1	0	---	---
Lead	ppm	ASTM D5185m <0.1	0	---	---
Vanadium	ppm	ASTM D5185m <0.1	0	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
Phosphorus	ppm	ASTM D5185m <0.1	0	---	---
Zinc	ppm	ASTM D5185m <0.1	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.** : KT0000968  
**Lab Number** : 06140762  
**Unique Number** : 10965570  
**Test Package** : DF-2 ( Additional Tests: Fuel, Screen )  
**Received** : 05 Apr 2024  
**Tested** : 15 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Doug Bogart

**SAN JOAQUIN TRACTOR**  
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 US 93305  
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 fred@sanjoaquintractor.com  
 T: (661)324-4517  
 F: (661)324-2306

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)