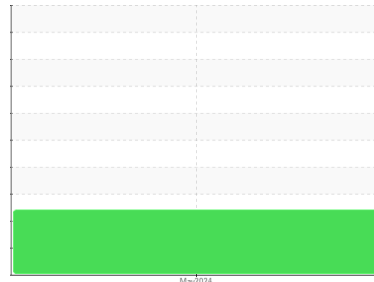




FUEL REPORT

Sample Rating Trend



ISO



Machine Id
KIOTI RX7320 PX63A0108
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. 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 high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

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	KT0001577	---	---
Sample Date	Client Info	13 May 2024	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		ABNORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar *ASTM D1500	L4.0	---	---
Visc @ 40°C	cSt ASTM D445	2.46	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	58.8	---	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	40	---	---
Sulfur (UVF)	ppm ASTM D5453	15	---	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	---	---
5% Distillation Point	°C ASTM D86	190	---	---
10% Distill Point	°C ASTM D86	201	---	---
15% Distillation Point	°C ASTM D86	208	---	---
20% Distill Point	°C ASTM D86	216	---	---
30% Distill Point	°C ASTM D86	230	---	---
40% Distill Point	°C ASTM D86	243	---	---
50% Distill Point	°C ASTM D86	255	---	---
60% Distill Point	°C ASTM D86	267	---	---
70% Distill Point	°C ASTM D86	280	---	---
80% Distill Point	°C ASTM D86	295	---	---
85% Distillation Point	°C ASTM D86	314	---	---
90% Distill Point	°C ASTM D86	310	---	---
95% Distillation Point	°C ASTM D86	343	---	---
Final Boiling Point	°C ASTM D86	341	---	---

IGNITION QUALITY

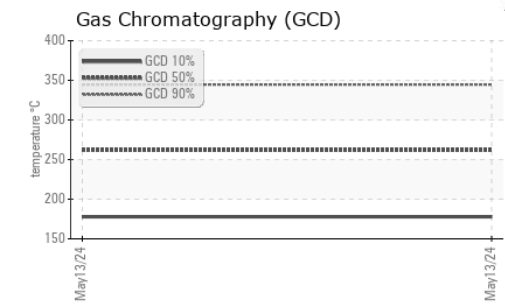
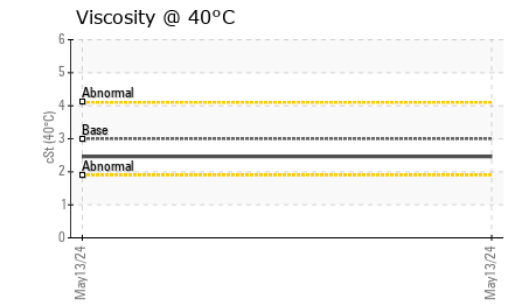
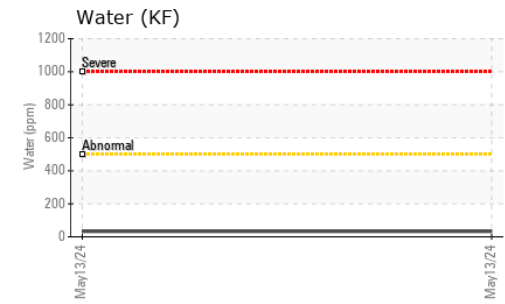
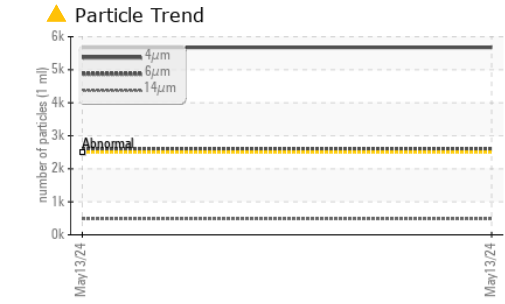
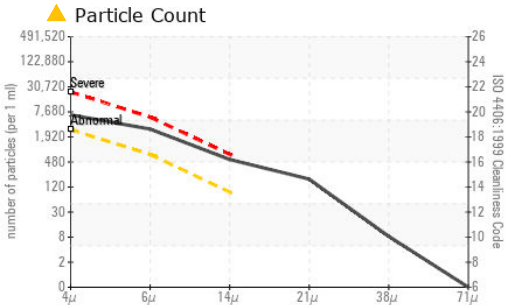
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	---	---
Cetane Index	ASTM D4737	<40.0	---	---

CONTAMINANTS

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



FUEL REPORT

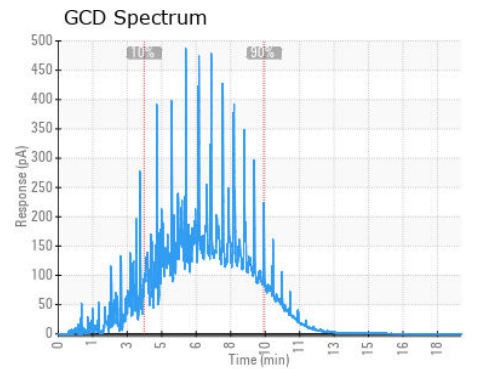
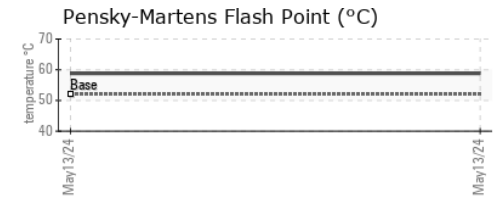
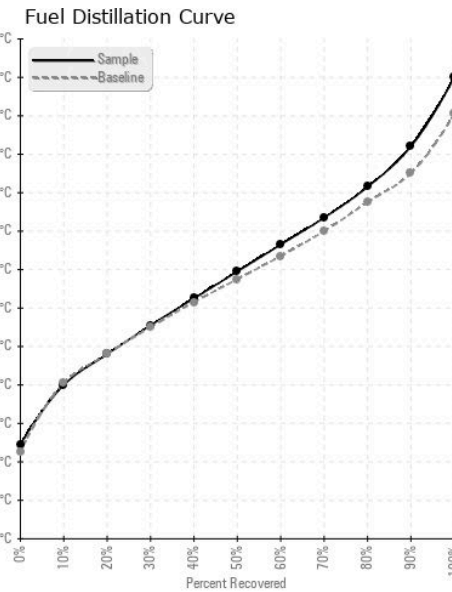


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 5674	---	---
Particles >6µm	ASTM D7647	>640	▲ 2583	---	---
Particles >14µm	ASTM D7647	>80	▲ 483	---	---
Particles >21µm	ASTM D7647	>20	▲ 164	---	---
Particles >38µm	ASTM D7647	>4	● 7	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/19/16	---	---

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	<1	---	---
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	4	---	---
Zinc	ppm	ASTM D5185m <0.1	4	---	---

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. : KT0001577 **Received** : 17 May 2024
Lab Number : 06183823 **Tested** : 21 May 2024
Unique Number : 11035149 **Diagnosed** : 03 Jun 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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)

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