FUEL REPORT

Sample Rating Trend

ISO

Machine Id
KIOTI CX2510HCB PX3DA0387
Component
Diesel Fuel
Fluid
DIESEL FUEL No. 2 (--- 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. 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		**KT0001568**	---	---
Sample Date		Client Info		**04 Jun 2024**	---	---
Machine Age	hrs	Client Info		**32**	---	---
Sample Status				**ABNORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		**YIlow**	---	---
ASTM Color	scalar	*ASTM D1500		**L2.5**	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		**60.2**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**207**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**15**	---	---

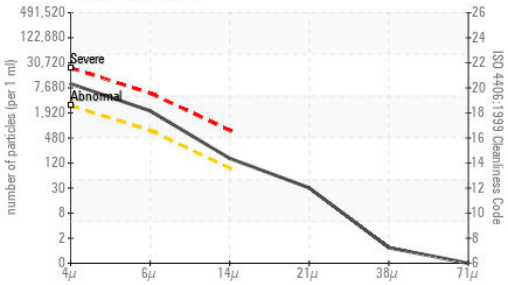
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		**171**	---	---
5% Distillation Point	°C	ASTM D86		**194**	---	---
10% Distill Point	°C	ASTM D86		**204**	---	---
15% Distillation Point	°C	ASTM D86		**212**	---	---
20% Distill Point	°C	ASTM D86		**219**	---	---
30% Distill Point	°C	ASTM D86		**234**	---	---
40% Distill Point	°C	ASTM D86		**247**	---	---
50% Distill Point	°C	ASTM D86		**260**	---	---
60% Distill Point	°C	ASTM D86		**273**	---	---
70% Distill Point	°C	ASTM D86		**286**	---	---
80% Distill Point	°C	ASTM D86		**300**	---	---
85% Distillation Point	°C	ASTM D86		**310**	---	---
90% Distill Point	°C	ASTM D86		**320**	---	---
95% Distillation Point	°C	ASTM D86		**336**	---	---
Final Boiling Point	°C	ASTM D86		**351**	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		**35**	---	---
Cetane Index		ASTM D4737	<40.0	**45**	---	---

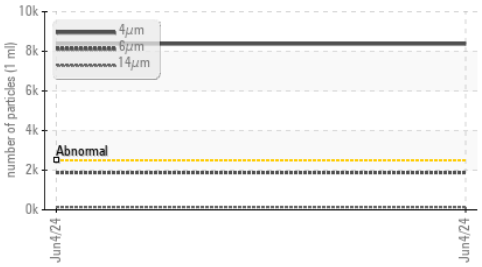
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Water	%	ASTM D6304	<0.05	**0.004**	---	---
ppm Water	ppm	ASTM D6304	<500	**42**	---	---
% Gasoline	%	*In-House	<0.50	**0.0**	---	---
% Biodiesel	%	*In-House	<20.0	**0.0**	---	---

FUEL REPORT

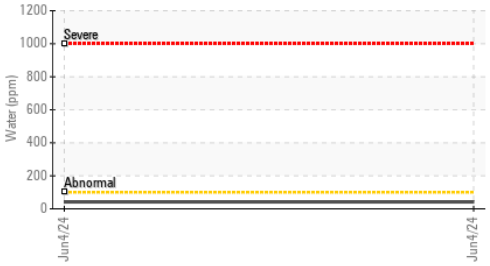
Particle Count



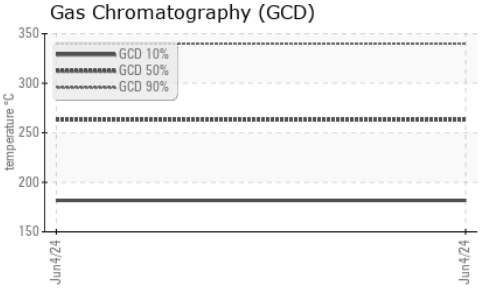
Particle Trend



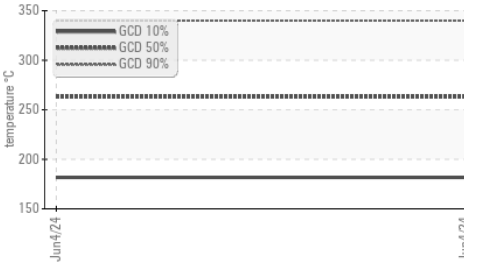
Water (KF)



Gas Chromatography (GCD)

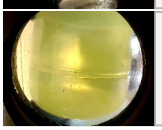


Gas Chromatography (GCD)



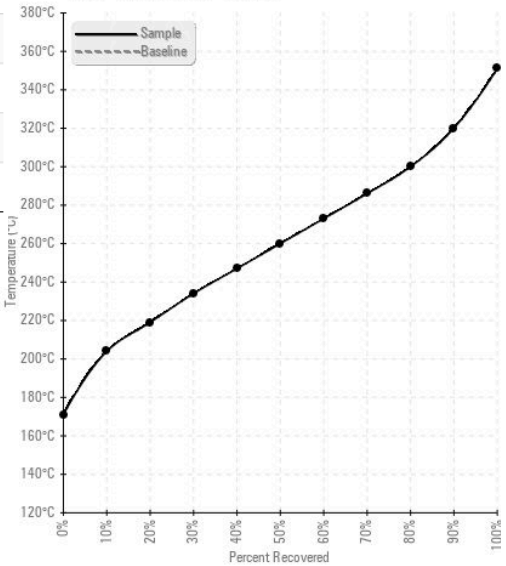
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ **8377**	---	---
Particles >6µm	ASTM D7647	>640	▲ **1881**	---	---
Particles >14µm	ASTM D7647	>80	▲ **137**	---	---
Particles >21µm	ASTM D7647	>20	▲ **27**	---	---
Particles >38µm	ASTM D7647	>4	**1**	---	---
Particles >71µm	ASTM D7647	>3	**0**	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ **20/18/14**	---	---

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	**0**	---	---
Zinc	ppm	ASTM D5185m	<0.1	**0**	---	---

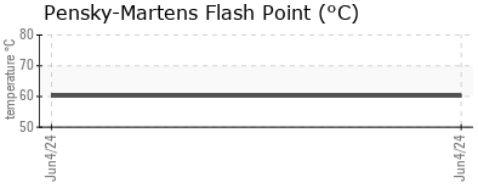
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

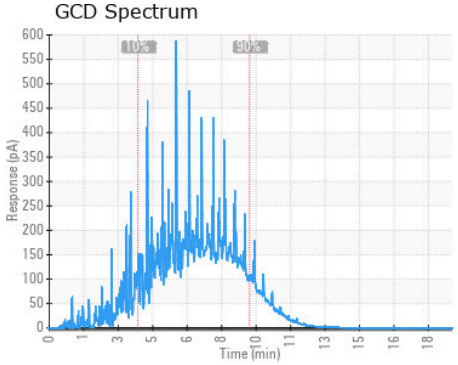
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0001568
Lab Number : 06207348
Unique Number : 11074809
Test Package : DF-2 (Additional Tests: Fuel, Screen)

Received : 11 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Doug Bogart

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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