



FUEL REPORT

Sample Rating Trend



ISO



Machine Id
KIOTI CK2610 YL95-01784

Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Recommend pre-filtering before use. All other 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		KT0000638	---	---
Sample Date		Client Info		13 Jul 2023	---	---
Machine Age	hrs	Client Info		394	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.847	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L2.0	---	---
Visc @ 40°C	cSt	ASTM D445		2.49	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		57	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		11	---	---

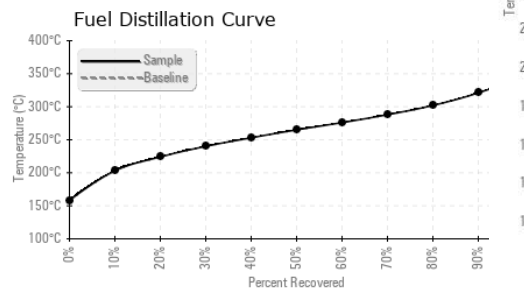
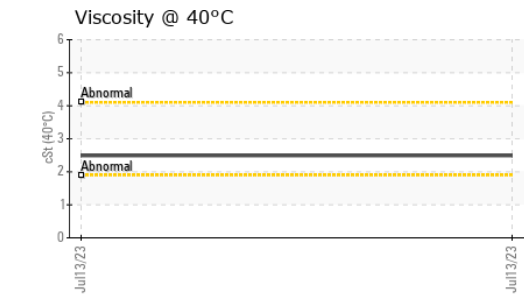
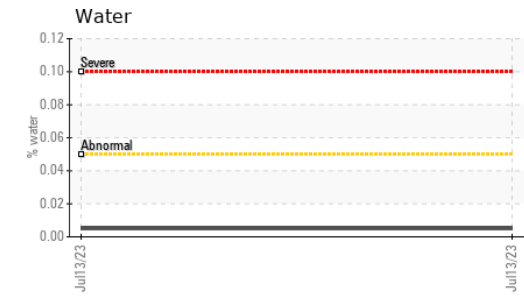
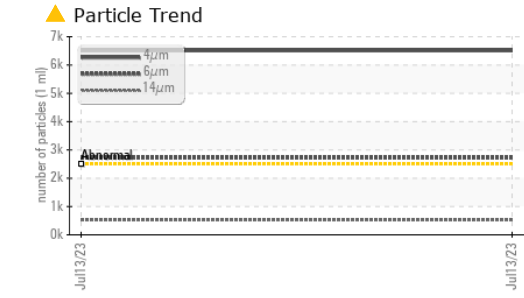
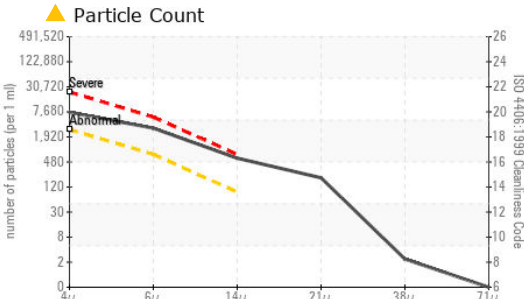
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		158	---	---
5% Distillation Point	°C	ASTM D86		188	---	---
10% Distill Point	°C	ASTM D86		203	---	---
15% Distillation Point	°C	ASTM D86		215	---	---
20% Distill Point	°C	ASTM D86		224	---	---
30% Distill Point	°C	ASTM D86		240	---	---
40% Distill Point	°C	ASTM D86		253	---	---
50% Distill Point	°C	ASTM D86		265	---	---
60% Distill Point	°C	ASTM D86		276	---	---
70% Distill Point	°C	ASTM D86		288	---	---
80% Distill Point	°C	ASTM D86		302	---	---
85% Distillation Point	°C	ASTM D86		311	---	---
90% Distill Point	°C	ASTM D86		321	---	---
95% Distillation Point	°C	ASTM D86		337	---	---
Final Boiling Point	°C	ASTM D86		346	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.8	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.6	---	---
Cetane Index		ASTM D4737	<40.0	46.7	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
Sodium	ppm	ASTM D5185m	<0.1	<1	---	---
Potassium	ppm	ASTM D5185m	<0.1	0	---	---
Water	%	ASTM D6304	<0.05	0.005	---	---
ppm Water	ppm	ASTM D6304	<500	52.3	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



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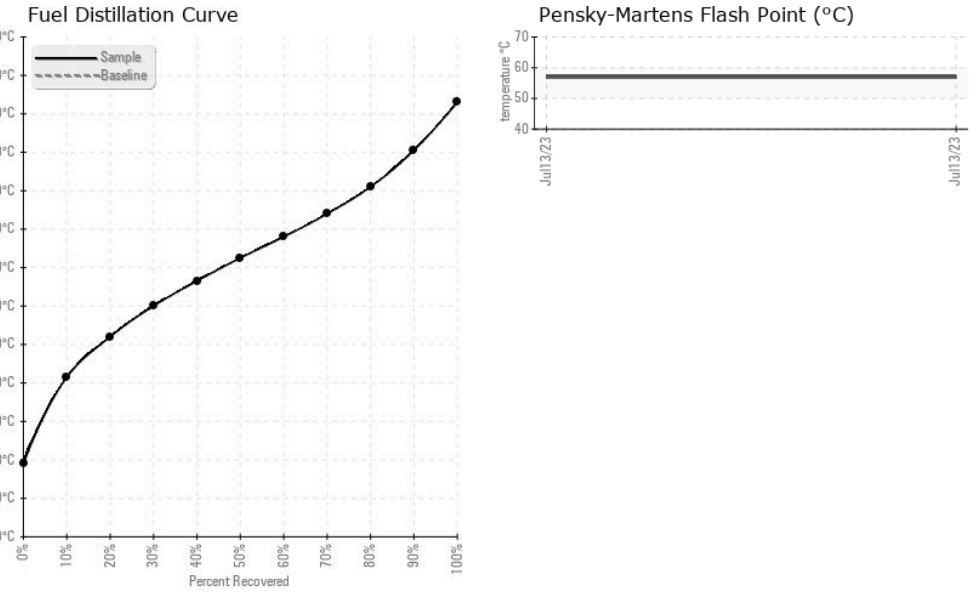


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 6509	---	---
Particles >6µm	ASTM D7647	>640	▲ 2721	---	---
Particles >14µm	ASTM D7647	>80	▲ 520	---	---
Particles >21µm	ASTM D7647	>20	▲ 176	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	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	<1	---	---
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	2	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	2	---	---
Zinc	ppm	ASTM D5185m	<0.1	0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000638 **Received** : 17 Jul 2023
Lab Number : 05900894 **Diagnosed** : 24 Jul 2023
Unique Number : 10562250 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

BLACK CREEK TRACTOR
 2779 BLANDING BLVD
 MIDDLEBURG, FL
 US 32068
 Contact: Service Manager
 blackcreekgardens@att.net
 T:
 F:

Certificate L2367
 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)