



FUEL REPORT

Sample Rating Trend



ISO



Machine Id
KIOTI CK2610 XL9500860

Component
Diesel Fuel

Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

▲ Contaminants

There is a high amount of particulates present in the fuel. The water content is negligible. No evidence of fuel present in the fuel.

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			KT0000912	---	---
Sample Date	Client Info			11 Apr 2024	---	---
Machine Age	hrs	Client Info		253	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yellow	Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L2.5	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.59	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	20	---	---
Sulfur (UVF)	ppm	ASTM D5453		11	---	---

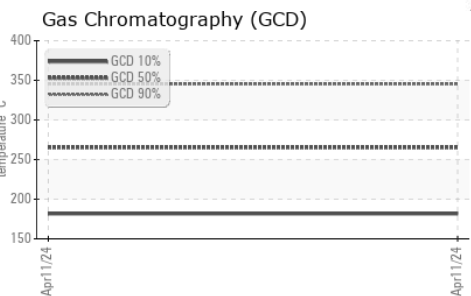
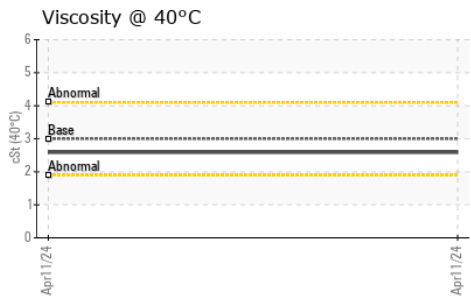
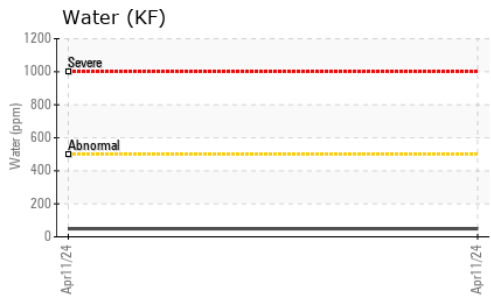
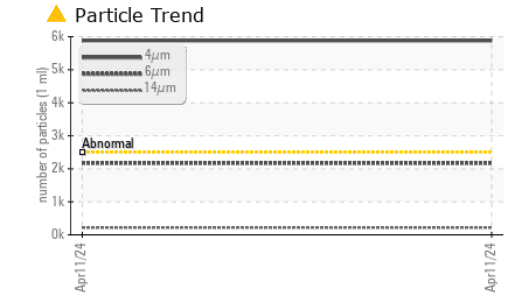
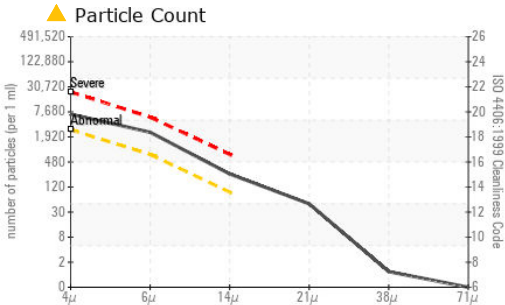
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171	---	---
5% Distillation Point	°C	ASTM D86		194	---	---
10% Distill Point	°C	ASTM D86	201	204	---	---
15% Distillation Point	°C	ASTM D86		212	---	---
20% Distill Point	°C	ASTM D86	216	220	---	---
30% Distill Point	°C	ASTM D86	230	235	---	---
40% Distill Point	°C	ASTM D86	243	249	---	---
50% Distill Point	°C	ASTM D86	255	262	---	---
60% Distill Point	°C	ASTM D86	267	276	---	---
70% Distill Point	°C	ASTM D86	280	289	---	---
80% Distill Point	°C	ASTM D86	295	304	---	---
85% Distillation Point	°C	ASTM D86		314	---	---
90% Distill Point	°C	ASTM D86	310	325	---	---
95% Distillation Point	°C	ASTM D86		343	---	---
Final Boiling Point	°C	ASTM D86	341	357	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37	---	---
Cetane Index		ASTM D4737	<40.0	49	---	---

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	0.004	---	---
ppm Water	ppm	ASTM D6304	<500	49	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

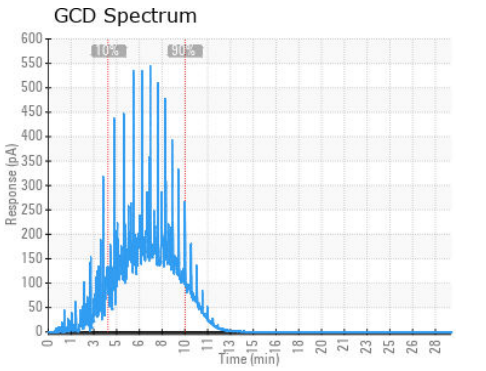
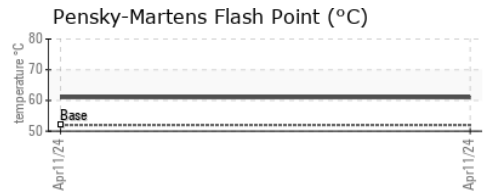
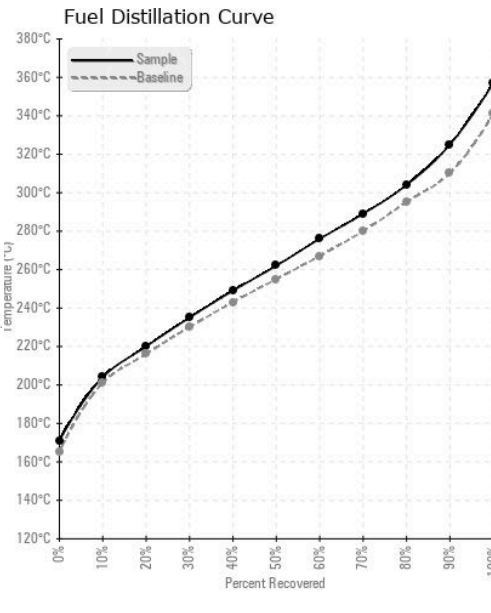


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 5880	---	---
Particles >6µm	ASTM D7647	>640	▲ 2171	---	---
Particles >14µm	ASTM D7647	>80	▲ 218	---	---
Particles >21µm	ASTM D7647	>20	▲ 42	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/15	---	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000912
Lab Number : 06149743
Unique Number : 10979821
Test Package : DF-2 (Additional Tests: Fuel, Screen)

Received : 15 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Angela Borella

STEC EQUIPMENT
 405 MCGEE RD
 ANDERSON, SC
 US 29625

Contact: SERVICE MANAGER
 hs@stecequipment.com
 T: (864)225-3666

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)