



FUEL REPORT

Sample Rating Trend



NORMAL



Machine Id
KIOTI CX2510 PA2UA2079

Component
Diesel Fuel

Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- 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 cooling system.

Contaminants

There is a moderate 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			KT0000626	---	---
Sample Date	Client Info			01 Apr 2024	---	---
Machine Age	hrs	Client Info		43	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	0.843	---	---
Fuel Color	text	*Visual Screen	Yellow	Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.0	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.63	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	63.4	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		10	---	---

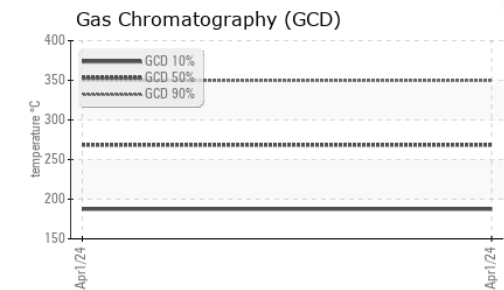
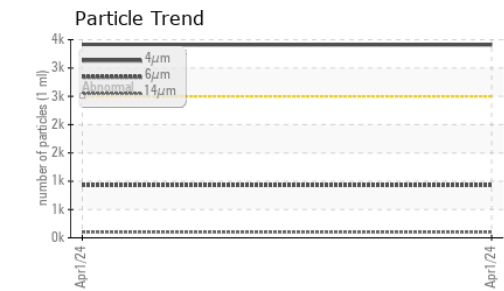
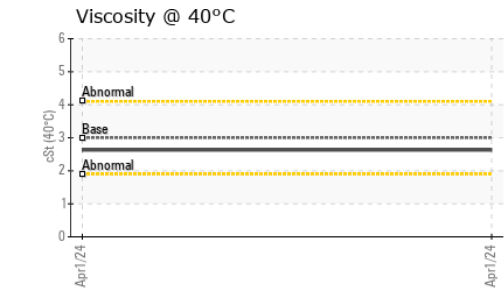
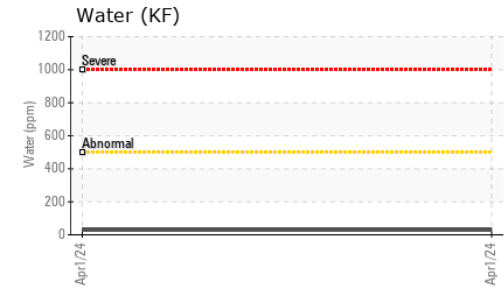
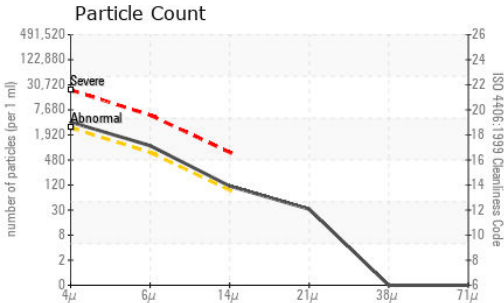
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	169	---	---
5% Distillation Point	°C	ASTM D86		193	---	---
10% Distill Point	°C	ASTM D86	201	205	---	---
15% Distillation Point	°C	ASTM D86		213	---	---
20% Distill Point	°C	ASTM D86	216	220	---	---
30% Distill Point	°C	ASTM D86	230	235	---	---
40% Distill Point	°C	ASTM D86	243	250	---	---
50% Distill Point	°C	ASTM D86	255	263	---	---
60% Distill Point	°C	ASTM D86	267	277	---	---
70% Distill Point	°C	ASTM D86	280	292	---	---
80% Distill Point	°C	ASTM D86	295	308	---	---
85% Distillation Point	°C	ASTM D86		317	---	---
90% Distill Point	°C	ASTM D86	310	328	---	---
95% Distillation Point	°C	ASTM D86		347	---	---
Final Boiling Point	°C	ASTM D86	341	357	---	---
Distillation Residue	%	ASTM D86	3.0	1.4	---	---
Distillation Loss	%	ASTM D86	3.0	0.7	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36.4	---	---
Cetane Index		ASTM D4737	<40.0	48.1	---	---

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	0	---	---
Water	%	ASTM D6304	<0.05	0.003	---	---
ppm Water	ppm	ASTM D6304	<500	29	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

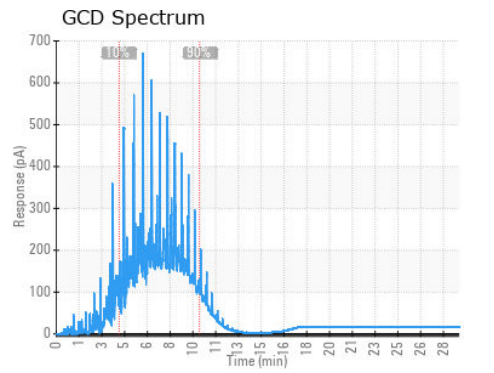
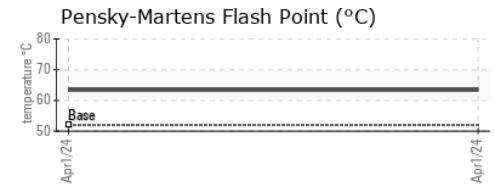
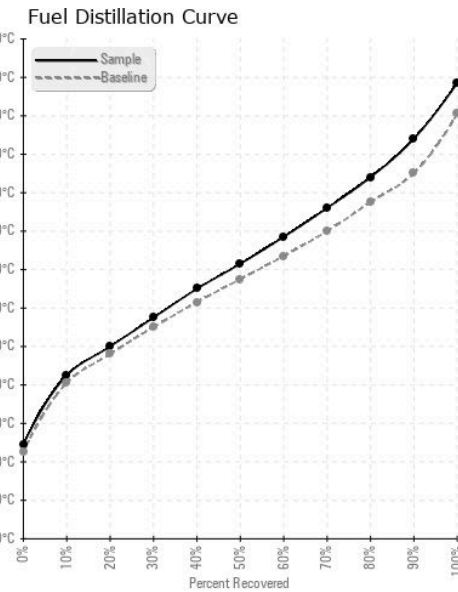


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	3410	---	---
Particles >6µm	ASTM D7647	>640	929	---	---
Particles >14µm	ASTM D7647	>80	100	---	---
Particles >21µm	ASTM D7647	>20	28	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/17/14	---	---

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	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	3	---	---

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. : KT0000626 **Received** : 01 Apr 2024
Lab Number : **06135943** **Tested** : 12 Apr 2024
Unique Number : 10955408 **Diagnosed** : 12 Apr 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

S & H FARM SUPPLY
 6959 E US HWY 60
 ROGERSVILLE, MO
 US 65742

Contact: SERVICE MANAGER
 59dextatractor@gmail.com
 T: (417)753-4333

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)