



FUEL REPORT

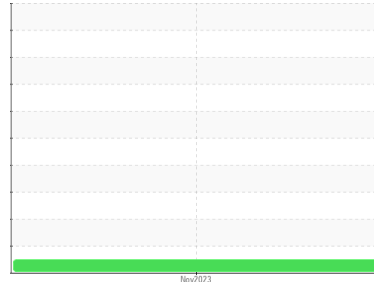
Sample Rating Trend

NORMAL



Machine Id
KIOTI SR6600079

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



DIAGNOSIS

Recommendation

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

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

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			KT0000243	---	---
Sample Date	Client Info			02 Nov 2023	---	---
Machine Age	hrs	Client Info		499	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.837	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L2.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.27	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		58	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		39	---	---
Sulfur (UVF)	ppm	ASTM D5453		9	---	---

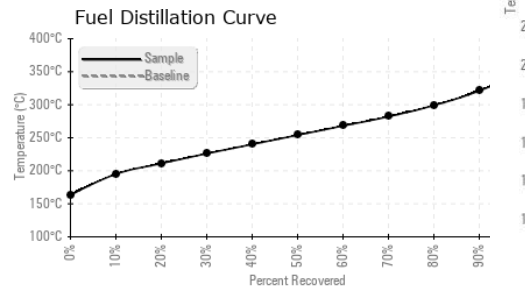
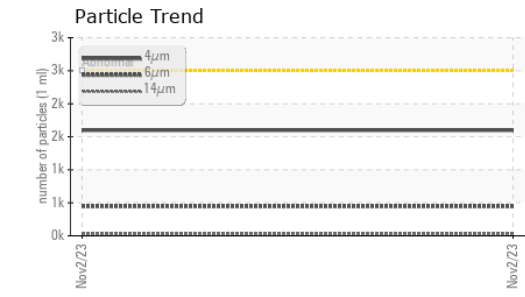
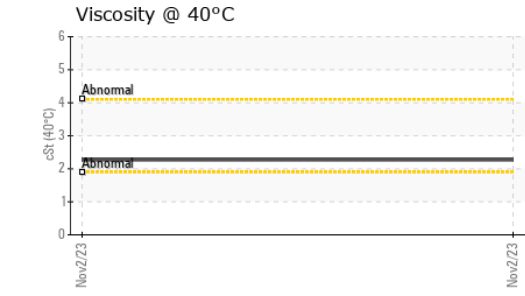
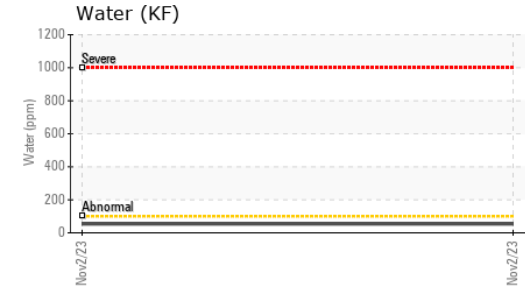
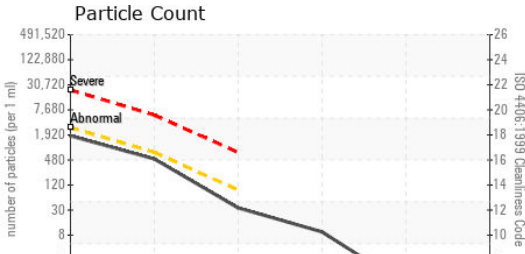
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		163	---	---
5% Distillation Point	°C	ASTM D86		185	---	---
10% Distill Point	°C	ASTM D86		195	---	---
15% Distillation Point	°C	ASTM D86		203	---	---
20% Distill Point	°C	ASTM D86		211	---	---
30% Distill Point	°C	ASTM D86		226	---	---
40% Distill Point	°C	ASTM D86		240	---	---
50% Distill Point	°C	ASTM D86		254	---	---
60% Distill Point	°C	ASTM D86		268	---	---
70% Distill Point	°C	ASTM D86		282	---	---
80% Distill Point	°C	ASTM D86		299	---	---
85% Distillation Point	°C	ASTM D86		309	---	---
90% Distill Point	°C	ASTM D86		321	---	---
95% Distillation Point	°C	ASTM D86		340	---	---
Final Boiling Point	°C	ASTM D86		351	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.7	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37.6	---	---
Cetane Index		ASTM D4737	<40.0	47.9	---	---

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	53.9	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



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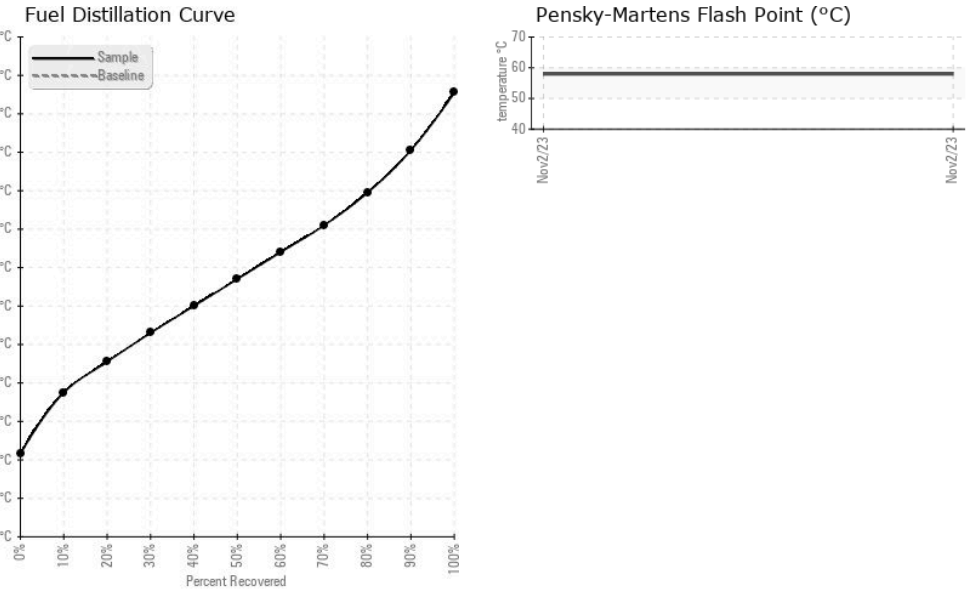


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1598	---	---
Particles >6µm	ASTM D7647	>640	446	---	---
Particles >14µm	ASTM D7647	>80	30	---	---
Particles >21µm	ASTM D7647	>20	8	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/16/12	---	---

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				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000243 **Received** : 07 Nov 2023
Lab Number : 06001187 **Diagnosed** : 18 Nov 2023
Unique Number : 10729547 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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 ELLISVILLE, MS
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 chiplooney@yahoo.com
 T: (601)800-8233
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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)