



FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
KIOTI DK4510 VR7600201

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			KT0000674	---	---
Sample Date	Client Info			23 Sep 2023	---	---
Machine Age	hrs	Client Info		195	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.855	---	---
Fuel Color	text	*Visual Screen		Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.0	---	---
Visc @ 40°C	cSt	ASTM D445		2.76	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		59	---	---

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

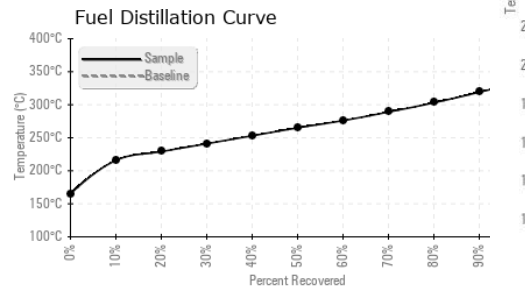
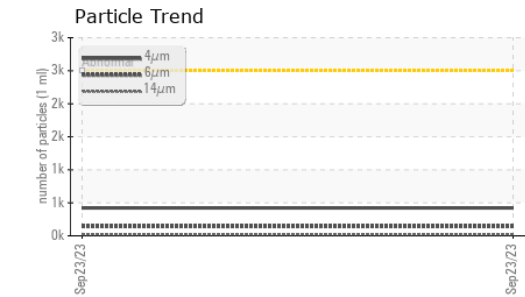
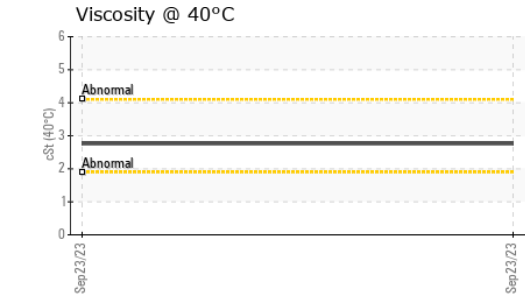
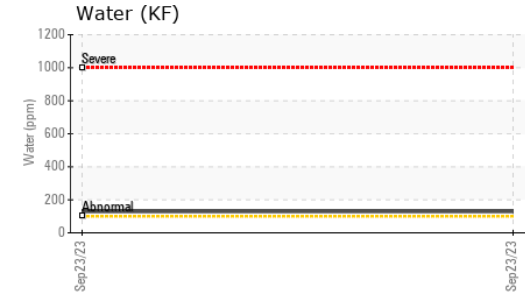
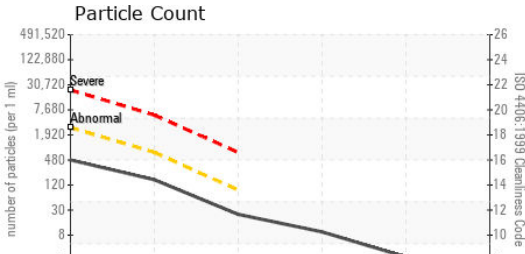
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		165	---	---
5% Distillation Point	°C	ASTM D86		203	---	---
10% Distill Point	°C	ASTM D86		216	---	---
15% Distillation Point	°C	ASTM D86		223	---	---
20% Distill Point	°C	ASTM D86		229	---	---
30% Distill Point	°C	ASTM D86		241	---	---
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		289	---	---
80% Distill Point	°C	ASTM D86		303	---	---
85% Distillation Point	°C	ASTM D86		310	---	---
90% Distill Point	°C	ASTM D86		319	---	---
95% Distillation Point	°C	ASTM D86		331	---	---
Final Boiling Point	°C	ASTM D86		336	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.2	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		34.0	---	---
Cetane Index		ASTM D4737	<40.0	44.5	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---	---
Sodium	ppm	ASTM D5185m	<0.1	0	---	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---	---
Water	%	ASTM D6304	<0.05	0.012	---	---
ppm Water	ppm	ASTM D6304	<500	129.1	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	4.2	---	---


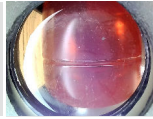


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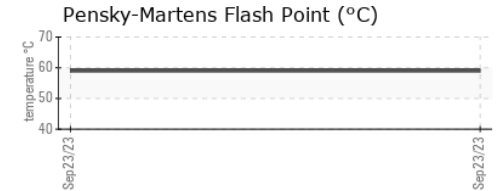
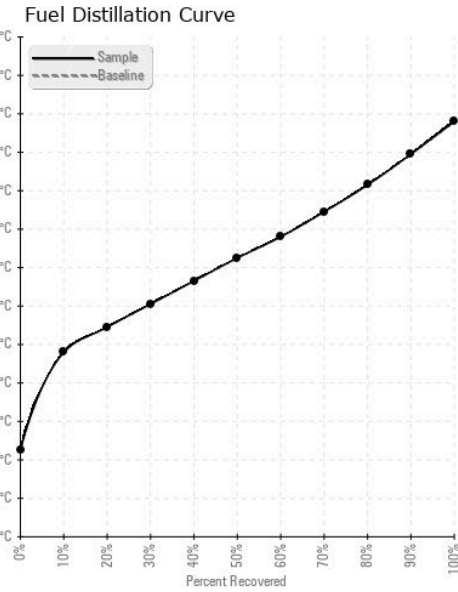


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	422	---	---
Particles >6µm	ASTM D7647	>640	142	---	---
Particles >14µm	ASTM D7647	>80	21	---	---
Particles >21µm	ASTM D7647	>20	8	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	16/14/12	---	---

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	2	---	---
Zinc	ppm	ASTM D5185m <0.1	<1	---	---

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. : KT0000674 **Received** : 27 Sep 2023
Lab Number : **05963172** **Diagnosed** : 05 Oct 2023
Unique Number : 10669723 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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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)