



FUEL REPORT

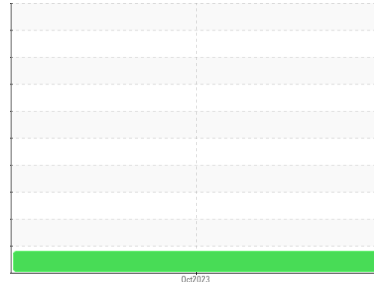
Sample Rating Trend

OFF SPEC



Machine Id
KIOTI Rx7320pc WW5000135 - JIM GREG

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

The Bio-Diesel level is at the top-end of the recommended limit. 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	KT0000668	---	---
Sample Date	Client Info	02 Oct 2023	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		ATTENTION	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	0.852	---	---
Fuel Color	text *Visual Screen	Yellow	---	---
ASTM Color	scalar *ASTM D1500	L3.0	---	---
Visc @ 40°C	cSt ASTM D445	2.92	---	---
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	5	---	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	---	---
5% Distillation Point	°C ASTM D86	206	---	---
10% Distill Point	°C ASTM D86	220	---	---
15% Distillation Point	°C ASTM D86	232	---	---
20% Distill Point	°C ASTM D86	240	---	---
30% Distill Point	°C ASTM D86	258	---	---
40% Distill Point	°C ASTM D86	275	---	---
50% Distill Point	°C ASTM D86	290	---	---
60% Distill Point	°C ASTM D86	304	---	---
70% Distill Point	°C ASTM D86	316	---	---
80% Distill Point	°C ASTM D86	327	---	---
85% Distillation Point	°C ASTM D86	332	---	---
90% Distill Point	°C ASTM D86	337	---	---
95% Distillation Point	°C ASTM D86	345	---	---
Final Boiling Point	°C ASTM D86	350	---	---
Distillation Residue	% ASTM D86	1.4	---	---
Distillation Loss	% ASTM D86	0.7	---	---

IGNITION QUALITY

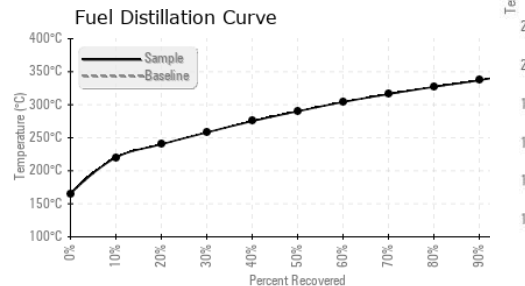
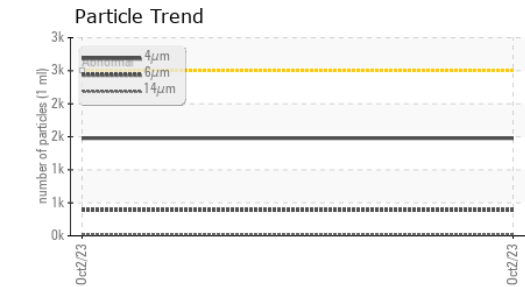
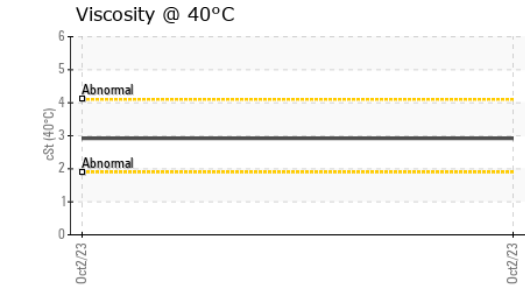
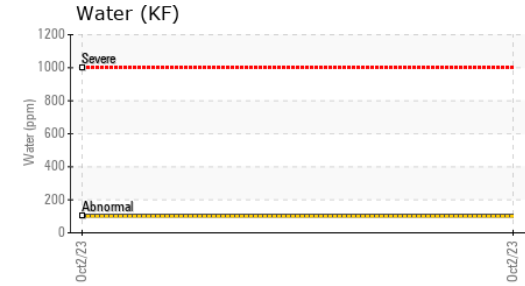
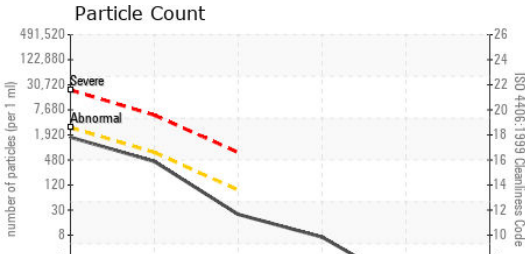
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	34.6	---	---
Cetane Index	ASTM D4737 <40.0	50.6	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	0	---	---
Sodium	ppm ASTM D5185m <0.1	0	---	---
Potassium	ppm ASTM D5185m <0.1	<1	---	---
Water	% ASTM D6304 <0.05	0.010	---	---
ppm Water	ppm ASTM D6304 <500	102.8	---	---
% Gasoline	% *In-House <0.50	0.0	---	---
% Biodiesel	% *In-House <20.0	▲ 19.3	---	---



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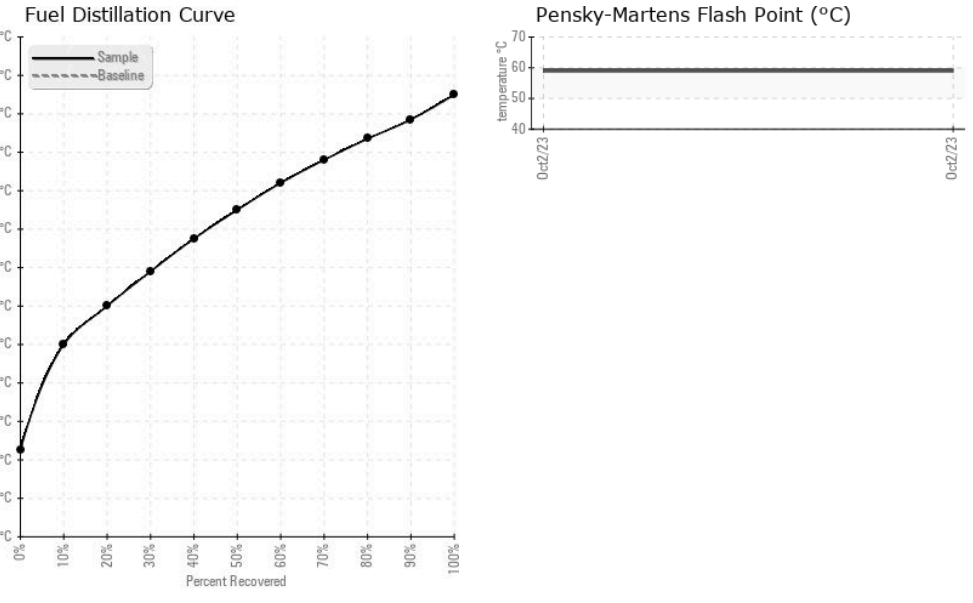


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1477	---	---
Particles >6µm	ASTM D7647	>640	389	---	---
Particles >14µm	ASTM D7647	>80	21	---	---
Particles >21µm	ASTM D7647	>20	6	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	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	2	---	---
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	2	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
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. : KT0000668 **Received** : 17 Oct 2023
Lab Number : **05982157** **Diagnosed** : 01 Nov 2023
Unique Number : 10699452 **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)