



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Machine Id  
**KIOTI RX7320 WW5100042**

Component  
**Diesel Fuel**

Fluid  
**{not provided} (--- GAL)**

**RECOMMENDATION**

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KT0000959</b>	---	---
Sample Date		Client Info		<b>30 Oct 2023</b>	---	---
Machine Age	hrs	Client Info		<b>711</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**CORROSION**

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

Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---

**CONTAMINANTS**

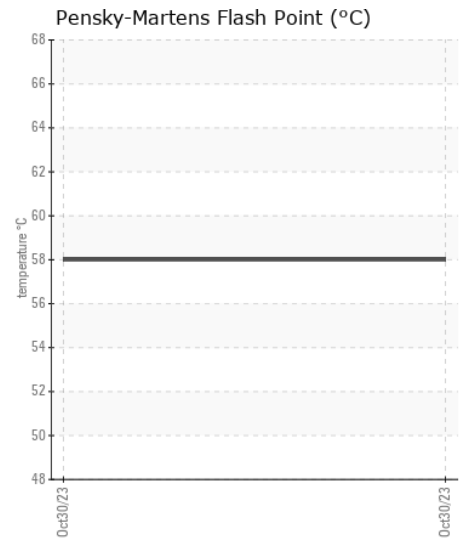
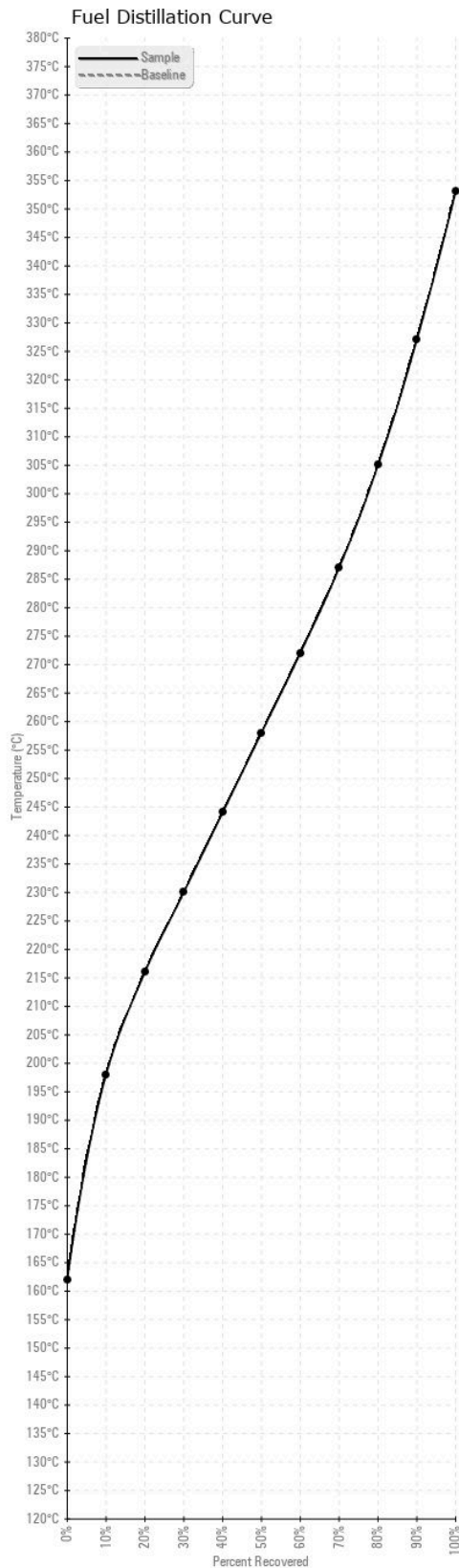
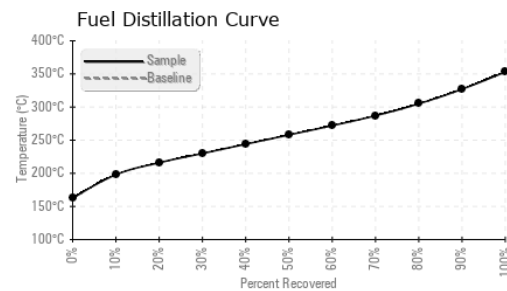
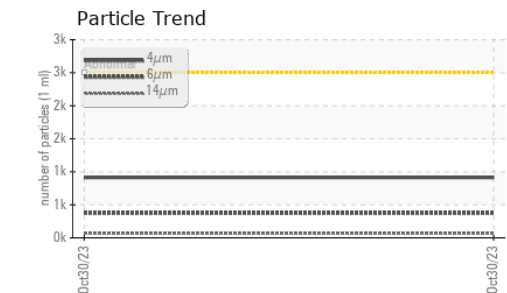
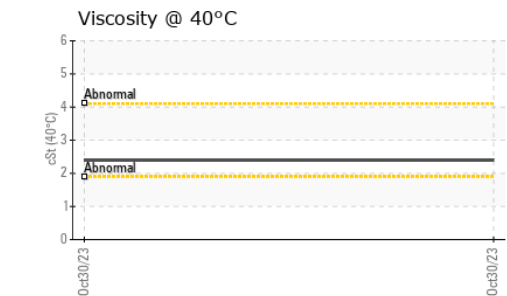
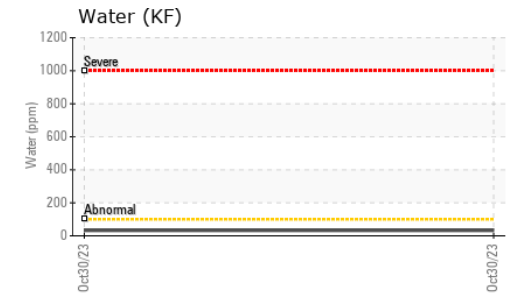
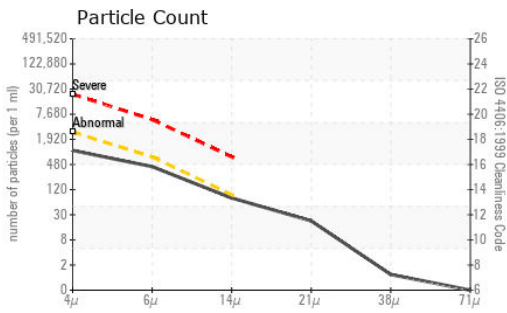
There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Water	%	ASTM D6304	<0.05	<b>0.003</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>32.7</b>	---	---
Particles >4µm		ASTM D7647	>2500	<b>913</b>	---	---
Particles >6µm		ASTM D7647	>640	<b>375</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>67</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>19</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>17/16/13</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---	---
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---

**FUEL CONDITION**

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

Specific Gravity		*ASTM D1298		<b>0.840</b>	---	---
Fuel Color	text	*Visual Screen		<b>Red</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>L5.0</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>2.4</b>	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>58</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>0</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>8</b>	---	---
Initial Boiling Point	°C	ASTM D86		<b>162</b>	---	---
10% Distill Point	°C	ASTM D86		<b>198</b>	---	---
20% Distill Point	°C	ASTM D86		<b>216</b>	---	---
30% Distill Point	°C	ASTM D86		<b>230</b>	---	---
40% Distill Point	°C	ASTM D86		<b>244</b>	---	---
50% Distill Point	°C	ASTM D86		<b>258</b>	---	---
60% Distill Point	°C	ASTM D86		<b>272</b>	---	---
70% Distill Point	°C	ASTM D86		<b>287</b>	---	---
80% Distill Point	°C	ASTM D86		<b>305</b>	---	---
90% Distill Point	°C	ASTM D86		<b>327</b>	---	---
Final Boiling Point	°C	ASTM D86		<b>353</b>	---	---
Distillation Residue	%	ASTM D86		<b>1.4</b>	---	---
Distillation Loss	%	ASTM D86		<b>1.0</b>	---	---
API Gravity		ASTM D7777		<b>37.0</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>48.0</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : KT0000959

**Lab Number** : 05997582

**Unique Number** : 10725942

**Test Package** : DF-2 ( Additional Tests: Fuel, Screen )

**Received** : 02 Nov 2023

**Tested** : 13 Nov 2023

**Diagnosed** : 13 Nov 2023 - Doug Bogart

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)

**SUWANNEE EQUIPMENT**

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