



# FUEL REPORT

Sample Rating Trend

**NORMAL**



Area

**[45831]**

Machine Id

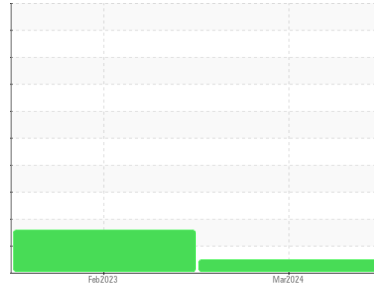
**KIOTI James D (S/N YY8800033)**

Component

**Diesel Fuel**

Fluid

**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**



## DIAGNOSIS

### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

### Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

### Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>KT0000987</b>	KT0000410	---
Sample Date	Client Info			<b>27 Mar 2024</b>	24 Feb 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.823</b>	0.819	---
Fuel Color	text	Visual Screen*	Yllow	<b>Yllow</b>	Yllow	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>1.9</b>	▲ 1.7	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>48.4</b>	▲ 45	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	<b>7</b>	12	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>154</b>	153	---
5% Distillation Point	°C	ASTM D2887*		<b>175</b>	170	---
10% Distill Point	°C	ASTM D2887*	201	<b>182</b>	176	---
15% Distillation Point	°C	ASTM D2887*		<b>189</b>	182	---
20% Distill Point	°C	ASTM D2887*	216	<b>196</b>	▲ 188	---
30% Distill Point	°C	ASTM D2887*	230	<b>208</b>	200	---
40% Distill Point	°C	ASTM D2887*	243	<b>220</b>	213	---
50% Distill Point	°C	ASTM D2887*	255	<b>233</b>	▲ 225	---
60% Distill Point	°C	ASTM D2887*	267	<b>247</b>	238	---
70% Distill Point	°C	ASTM D2887*	280	<b>262</b>	251	---
80% Distill Point	°C	ASTM D2887*	295	<b>280</b>	267	---
85% Distillation Point	°C	ASTM D2887*		<b>293</b>	278	---
90% Distill Point	°C	ASTM D2887*	310	<b>306</b>	289	---
95% Distillation Point	°C	ASTM D2887*		<b>328</b>	307	---
Final Boiling Point	°C	ASTM D2887*	341	<b>358</b>	326	---

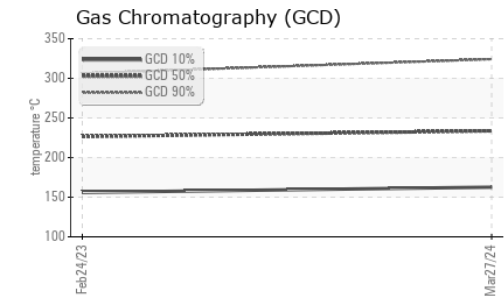
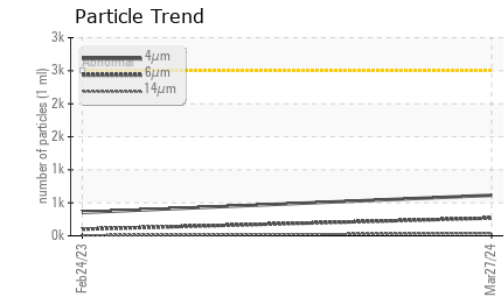
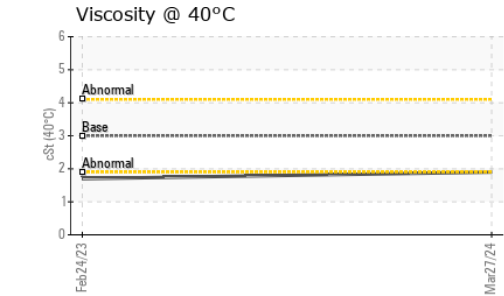
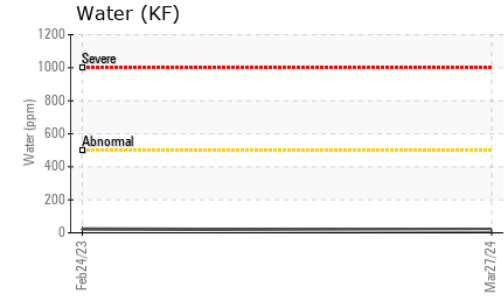
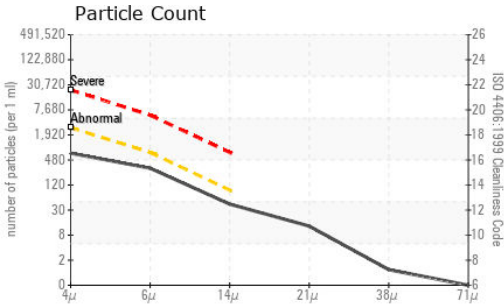
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>40</b>	41	---
Cetane Index		ASTM D4737*	<40.0	<b>47</b>	47	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	0	---
Water	%	ASTM D6304*	<0.05	<b>0.002</b>	0.002	---
ppm Water	ppm	ASTM D6304*	<500	<b>16</b>	23.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>614</b>	354	---
Particles >6µm		ASTM D7647	>640	<b>268</b>	100	---
Particles >14µm		ASTM D7647	>80	<b>37</b>	7	---
Particles >21µm		ASTM D7647	>20	<b>11</b>	2	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>16/15/12</b>	16/14/10	---

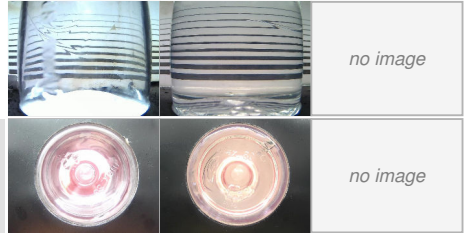


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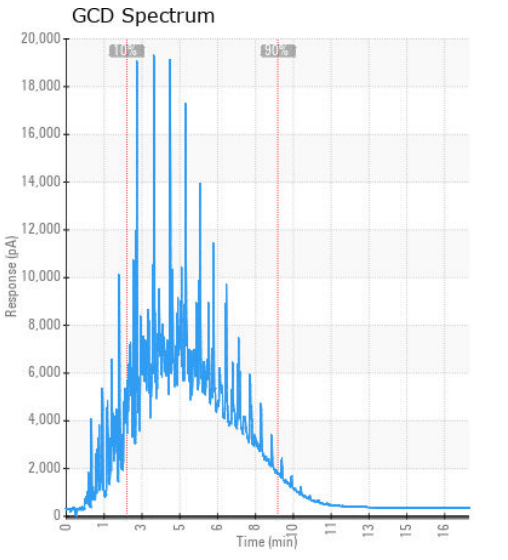
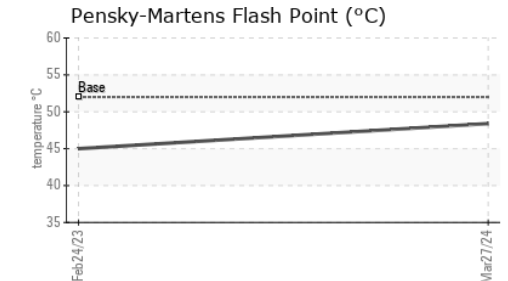
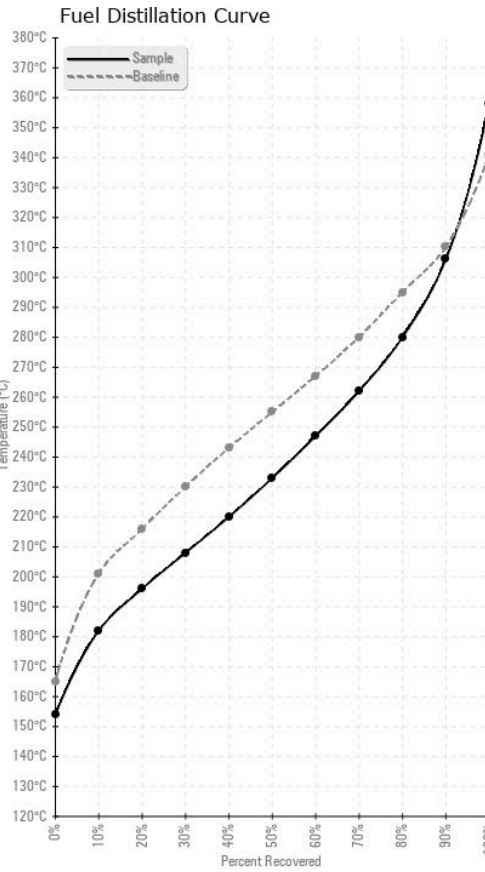


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---
Zinc	ppm	ASTM D5185(m)	<0.1	<1	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : KT0000987 **Received** : 02 Apr 2024  
**Lab Number** : 02626240 **Tested** : 03 Apr 2024  
**Unique Number** : 5759372 **Diagnosed** : 03 Apr 2024 - Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, PrtCount )

**GG Hache et Freres Ltee**  
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 T: (506)358-2203  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.