



# FUEL REPORT

Sample Rating Trend

ISO



Area  
**[99923]**  
Machine Id  
**PENTHOUSE**

Component  
**1 Diesel Fuel**  
Fluid  
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)**



## DIAGNOSIS

### Recommendation

Check seals and/or filters for points of contaminant entry. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you filter this fluid before use. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

### Corrosion

(not applicable)

### Contaminants

There is a high amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

### Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>CU0020769</b>	---	---
Sample Date	Client Info			<b>16 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.829</b>	---	---
Fuel Color	text	Visual Screen*	Yllow	<b>DkGry</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.2</b>	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>54.8</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	<b>23</b>	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>164</b>	---	---
5% Distillation Point	°C	ASTM D2887*		<b>186</b>	---	---
10% Distill Point	°C	ASTM D2887*	201	<b>195</b>	---	---
15% Distillation Point	°C	ASTM D2887*		<b>202</b>	---	---
20% Distill Point	°C	ASTM D2887*	216	<b>210</b>	---	---
30% Distill Point	°C	ASTM D2887*	230	<b>224</b>	---	---
40% Distill Point	°C	ASTM D2887*	243	<b>237</b>	---	---
50% Distill Point	°C	ASTM D2887*	255	<b>250</b>	---	---
60% Distill Point	°C	ASTM D2887*	267	<b>265</b>	---	---
70% Distill Point	°C	ASTM D2887*	280	<b>279</b>	---	---
80% Distill Point	°C	ASTM D2887*	295	<b>294</b>	---	---
85% Distillation Point	°C	ASTM D2887*		<b>306</b>	---	---
90% Distill Point	°C	ASTM D2887*	310	<b>317</b>	---	---
95% Distillation Point	°C	ASTM D2887*		<b>337</b>	---	---
Final Boiling Point	°C	ASTM D2887*	341	<b>372</b>	---	---

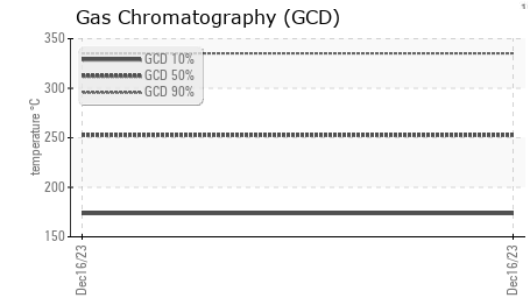
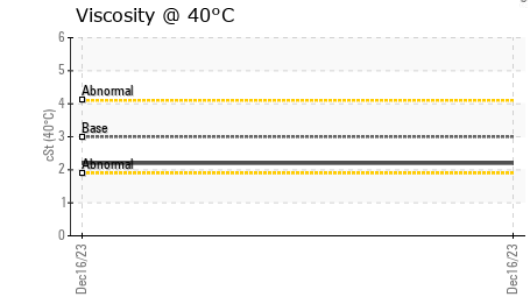
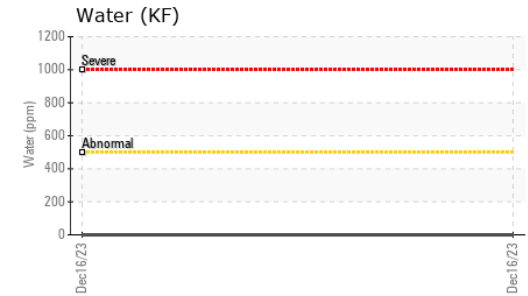
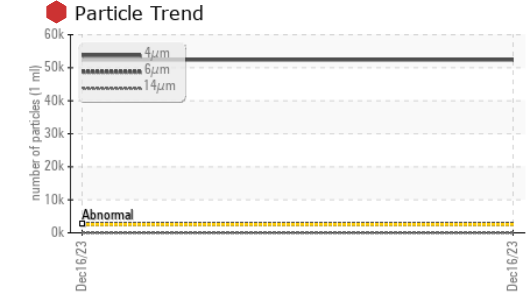
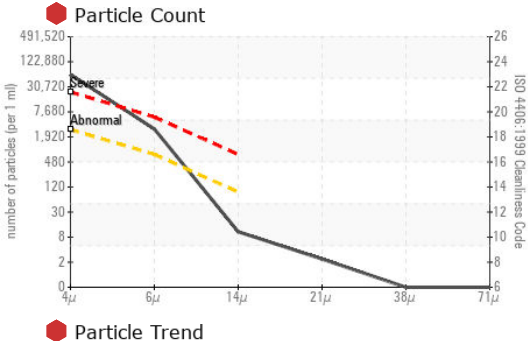
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>39</b>	---	---
Cetane Index		ASTM D4737*	<40.0	<b>50</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	---	---
Water	%	ASTM D6304*	<0.05	<b>0.00</b>	---	---
ppm Water	ppm	ASTM D6304*	<500	<b>0</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>52398</b>	---	---
Particles >6µm		ASTM D7647	>640	<b>2605</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>9</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>2</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>23/19/10</b>	---	---



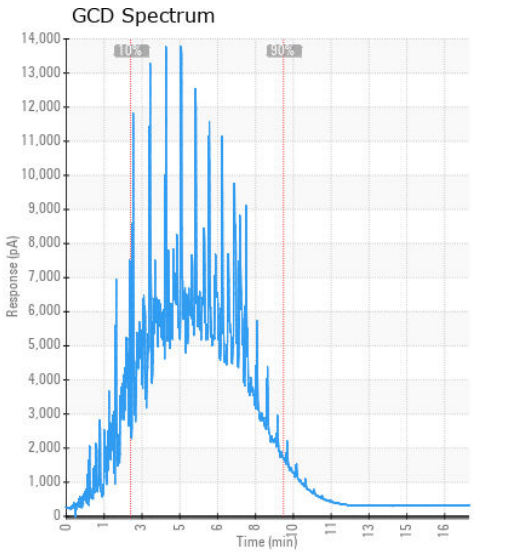
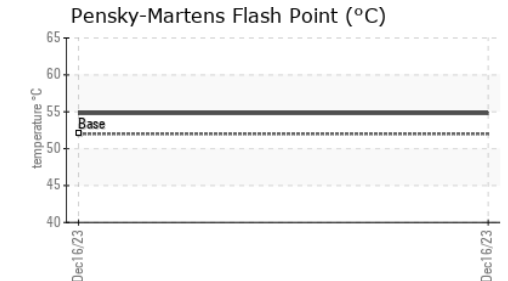
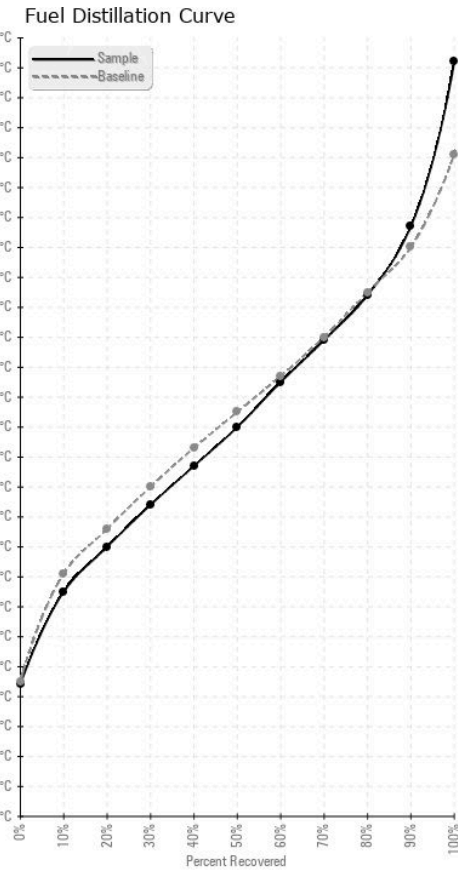
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---	---
Lead	ppm	ASTM D5185(m)	<0.1	2	---	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---	---
Iron	ppm	ASTM D5185(m)	<0.1	<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	0	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0020769 **Received** : 09 Jan 2024  
**Lab Number** : 02607622 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 5708708 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )

**CUMMINS EASTERN CANADA LP**  
 315 AV LIBERTE  
 CANDIAC, QC  
 CA J5R 6Z7  
 Contact: Service Manager

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.

T:  
 F: (450)638-6731