



# FUEL REPORT

Sample Rating Trend

**WATER**



Machine Id

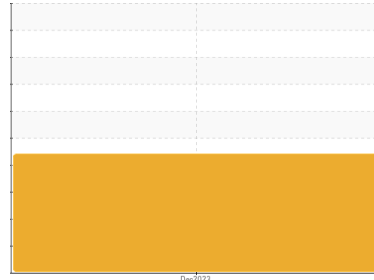
**1**

Component

**Diesel Fuel**

Fluid

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



## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Corrosion

(not applicable)

### ▲ Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. Excessive free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample. Small amount of bacteria present. No reportable mold present. No reportable yeast present.

### 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>WC0886633</b>	---	---
Sample Date	Client Info			<b>12 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.828</b>	---	---
Fuel Color	text	Visual Screen*	Yllow	<b>Red</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.3</b>	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>58.9</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	<b>8</b>	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>168</b>	---	---
5% Distillation Point	°C	ASTM D2887*		<b>187</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>209</b>	---	---
30% Distill Point	°C	ASTM D2887*	230	<b>223</b>	---	---
40% Distill Point	°C	ASTM D2887*	243	<b>236</b>	---	---
50% Distill Point	°C	ASTM D2887*	255	<b>249</b>	---	---
60% Distill Point	°C	ASTM D2887*	267	<b>264</b>	---	---
70% Distill Point	°C	ASTM D2887*	280	<b>279</b>	---	---
80% Distill Point	°C	ASTM D2887*	295	<b>295</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>365</b>	---	---

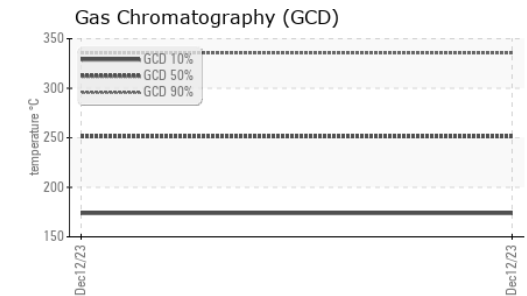
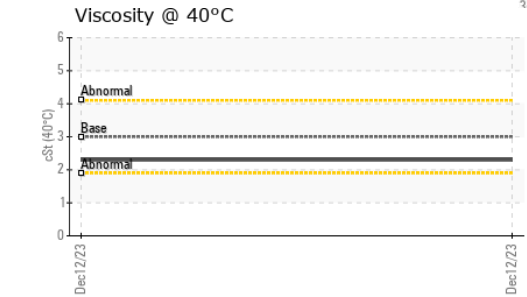
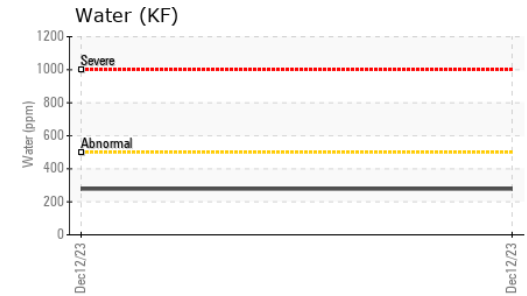
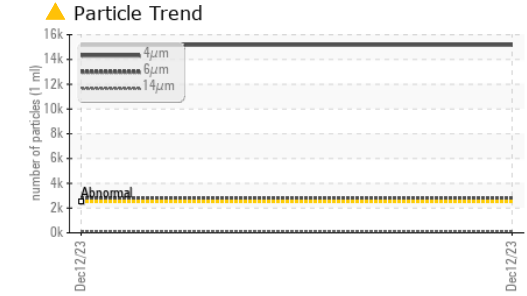
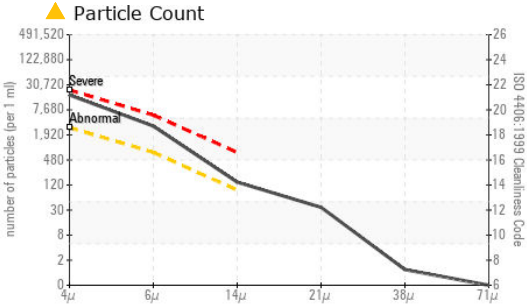
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>39</b>	---	---
Cetane Index		ASTM D4737*	<40.0	<b>50</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	---	---
Water	%	ASTM D6304*	<0.05	<b>0.027</b>	---	---
ppm Water	ppm	ASTM D6304*	<500	<b>278</b>	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>▲ 15172</b>	---	---
Particles >6µm		ASTM D7647	>640	<b>▲ 2735</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>▲ 124</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>▲ 31</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>▲ 21/19/14</b>	---	---



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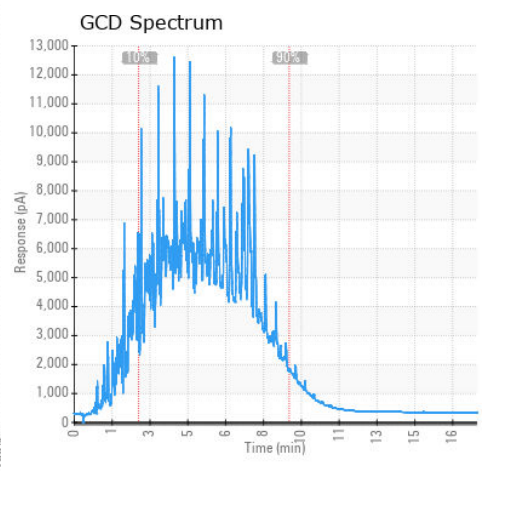
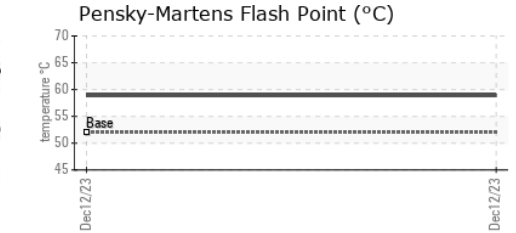
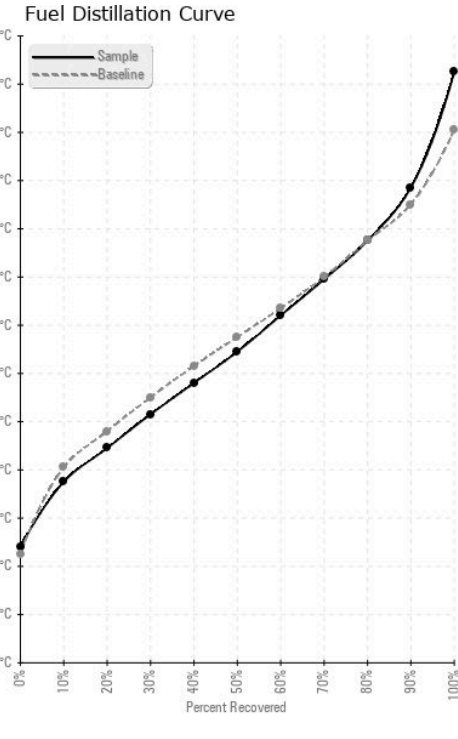


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml	ASTM D6469* >=100000	<b>1000</b>	---	---
Yeast	CFU/ml	ASTM D6469* >=100000	<b>0</b>	---	---
Mold	Colonies	ASTM D6469* MODER	<b>NONE</b>	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m) <0.1	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) <0.1	<b>0</b>	---	---
Lead	ppm	ASTM D5185(m) <0.1	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m) <0.1	<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) <0.1	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185(m) <0.1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) <0.1	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185(m) <0.1	<b>2</b>	---	---
Zinc	ppm	ASTM D5185(m) <0.1	<b>&lt;1</b>	---	---

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.** : WC0886633 **Received** : 13 Dec 2023  
**Lab Number** : **02602949** **Diagnosed** : 18 Dec 2023  
**Unique Number** : 5696034 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: Bacteria, CC Flash, GC-PercFuel, PrtCount )

**Colosi Vehicle Investigations**  
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 Contact: Russ Colosi  
 russ@colosi.ca  
 T: (289)294-0702  
 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.