



# FUEL REPORT

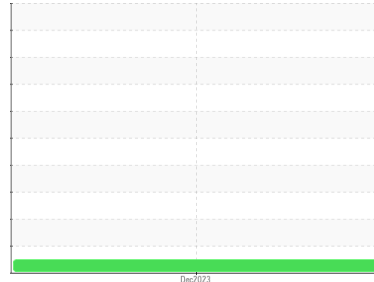
Sample Rating Trend

**NORMAL**



Area  
**[49693]**  
Machine Id  
**LUMSDEN ATS**

Component  
**Diesel Fuel**  
Fluid  
**No.2 DIESEL FUEL (LOW-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.

### Corrosion

{not applicable}

### 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 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>CU0021674</b>	---	---
Sample Date	Client Info	<b>04 Dec 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2	
Specific Gravity	ASTM D1298*	0.839	<b>0.829</b>	---	---
Fuel Color	text Visual Screen*	Yellow	<b>Red</b>	---	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	<b>2</b>	---	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	<b>49</b>	---	---

## SULFUR CONTENT

method	limit/base	current	history1	history2	
Sulfur	ppm ASTM D5185(m)	250	<b>33</b>	---	---

## DISTILLATION

method	limit/base	current	history1	history2	
Initial Boiling Point	°C ASTM D2887*	165	<b>154</b>	---	---
5% Distillation Point	°C ASTM D2887*		<b>173</b>	---	---
10% Distill Point	°C ASTM D2887*	201	<b>182</b>	---	---
15% Distillation Point	°C ASTM D2887*		<b>190</b>	---	---
20% Distill Point	°C ASTM D2887*	216	<b>198</b>	---	---
30% Distill Point	°C ASTM D2887*	230	<b>213</b>	---	---
40% Distill Point	°C ASTM D2887*	243	<b>229</b>	---	---
50% Distill Point	°C ASTM D2887*	255	<b>244</b>	---	---
60% Distill Point	°C ASTM D2887*	267	<b>259</b>	---	---
70% Distill Point	°C ASTM D2887*	280	<b>274</b>	---	---
80% Distill Point	°C ASTM D2887*	295	<b>292</b>	---	---
85% Distillation Point	°C ASTM D2887*		<b>304</b>	---	---
90% Distill Point	°C ASTM D2887*	310	<b>317</b>	---	---
95% Distillation Point	°C ASTM D2887*		<b>338</b>	---	---
Final Boiling Point	°C ASTM D2887*	341	<b>358</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>48</b>	---	---

## CONTAMINANTS

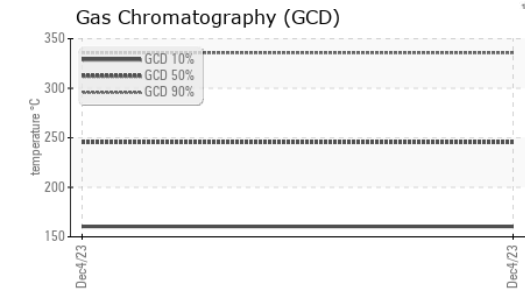
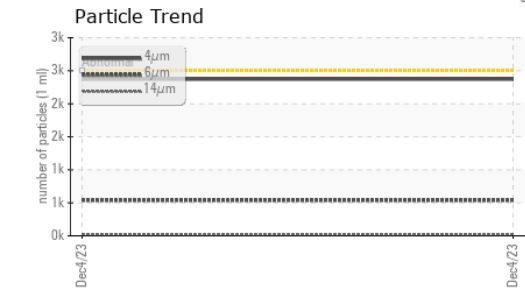
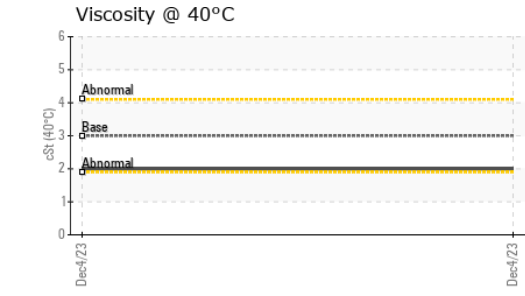
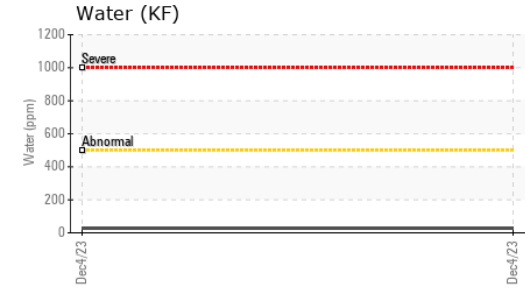
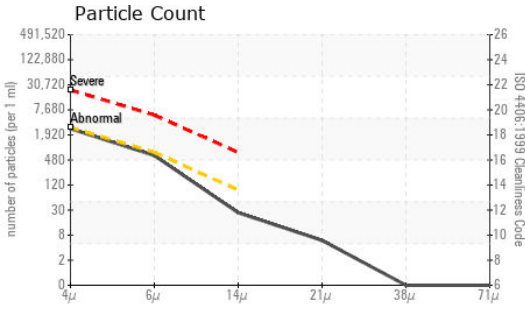
method	limit/base	current	history1	history2	
Silicon	ppm ASTM D5185(m)	<1.0	<b>2</b>	---	---
Sodium	ppm ASTM D5185(m)	<0.1	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185(m)	<0.1	<b>&lt;1</b>	---	---
Water	% ASTM D6304*	<0.05	<b>0.003</b>	---	---
ppm Water	ppm ASTM D6304*	<500	<b>28</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	<b>2372</b>	---	---
Particles >6µm	ASTM D7647	>640	<b>539</b>	---	---
Particles >14µm	ASTM D7647	>80	<b>23</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>5</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>18/16/12</b>	---	---



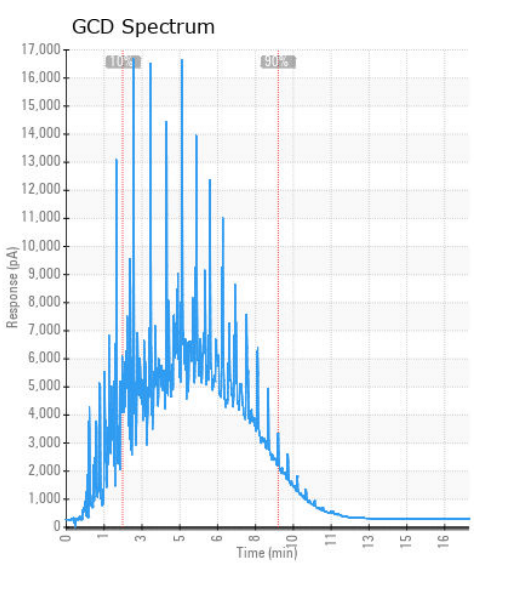
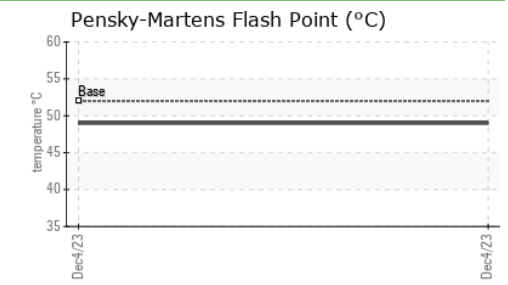
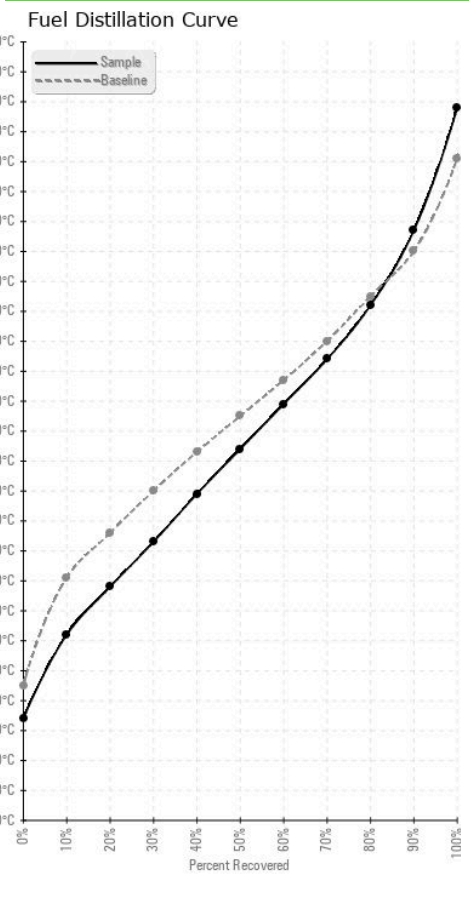
# FUEL REPORT



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	<1	---
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				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS EASTERN CANADA INC.**  
**Sample No.** : CU0021674 **Received** : 05 Dec 2023 122 CLYDE AVENUE  
**Lab Number** : 02601071 **Diagnosed** : 07 Dec 2023 MOUNT PEARL, NL  
**Unique Number** : 5694156 **Diagnostician** : Kevin Marson CA A1N 4S3  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount ) Contact: JUANITA BRANTON  
 To discuss this sample report, contact Customer Service at 1-800-268-2131. JUANITA.BRANTON@CUMMINS.COM  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (709)747-0157  
 Validity of results and interpretation are based on the sample and information as supplied. F: (709)747-1084