



# FUEL REPORT

Sample Rating Trend

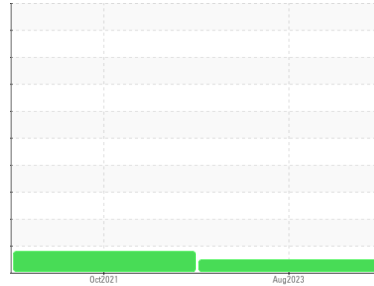
**NORMAL**



Area  
**[99830]**  
Machine Id  
**VALOUR AUX**

Component  
**Auxiliary 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.

### 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 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>CU0021090</b>	CU0018645	---
Sample Date	Client Info	<b>23 Aug 2023</b>	23 Oct 2021	---
Machine Age	hrs	<b>0</b>	655	---
Sample Status		<b>NORMAL</b>	ATTENTION	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	<b>0.829</b>	0.829	---	
Fuel Color	text	Visual Screen*	<b>Yellow</b>	Pink	---	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.2</b>	2.3	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>53</b>	52	---

## SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	<b>10</b>	13	---

## DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	<b>162</b>	154	---
5% Distillation Point	°C	ASTM D2887*		<b>183</b>	177	---
10% Distill Point	°C	ASTM D2887*	201	<b>193</b>	189	---
15% Distillation Point	°C	ASTM D2887*		<b>201</b>	197	---
20% Distill Point	°C	ASTM D2887*	216	<b>208</b>	206	---
30% Distill Point	°C	ASTM D2887*	230	<b>222</b>	221	---
40% Distill Point	°C	ASTM D2887*	243	<b>236</b>	235	---
50% Distill Point	°C	ASTM D2887*	255	<b>249</b>	250	---
60% Distill Point	°C	ASTM D2887*	267	<b>263</b>	264	---
70% Distill Point	°C	ASTM D2887*	280	<b>277</b>	279	---
80% Distill Point	°C	ASTM D2887*	295	<b>293</b>	295	---
85% Distillation Point	°C	ASTM D2887*		<b>304</b>	305	---
90% Distill Point	°C	ASTM D2887*	310	<b>315</b>	317	---
95% Distillation Point	°C	ASTM D2887*		<b>334</b>	336	---
Final Boiling Point	°C	ASTM D2887*	341	<b>352</b>	349	---

## IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	<b>39</b>	39	---
Cetane Index	ASTM D4737*	<40.0	<b>49</b>	49	---

## CONTAMINANTS

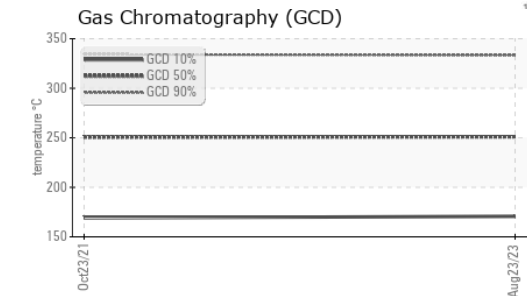
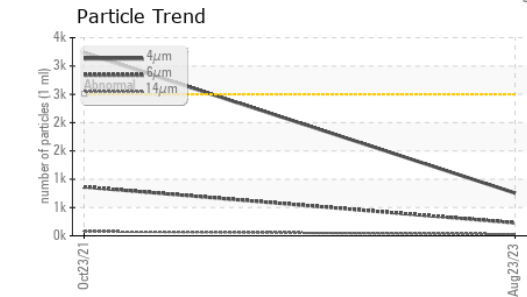
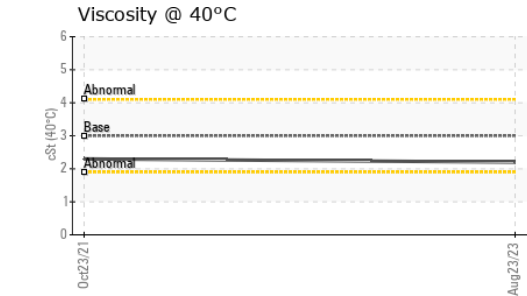
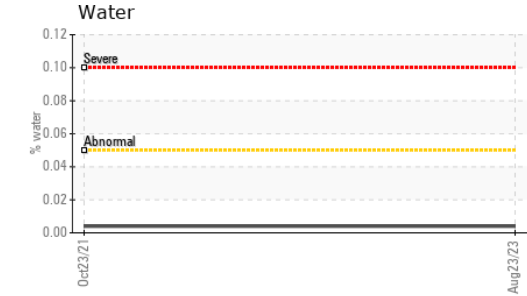
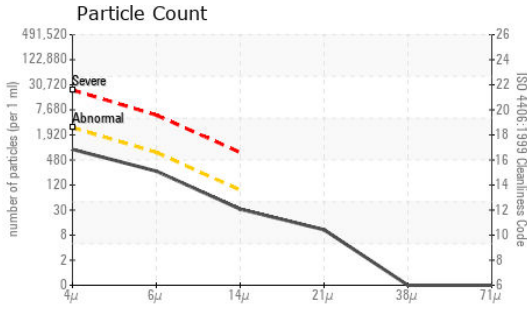
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	0	---
Water	%	ASTM D6304*	<0.05	<b>0.004</b>	0.004	---
ppm Water	ppm	ASTM D6304*	<500	<b>40.5</b>	41.8	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	<b>755</b>	▲ 3234	---
Particles >6µm	ASTM D7647	>640	<b>228</b>	▲ 863	---
Particles >14µm	ASTM D7647	>80	<b>28</b>	76	---
Particles >21µm	ASTM D7647	>20	<b>9</b>	21	---
Particles >38µm	ASTM D7647	>4	<b>0</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>17/15/12</b>	▲ 19/17/13	---

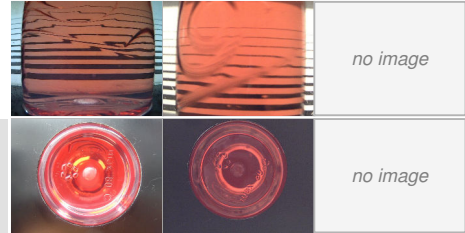


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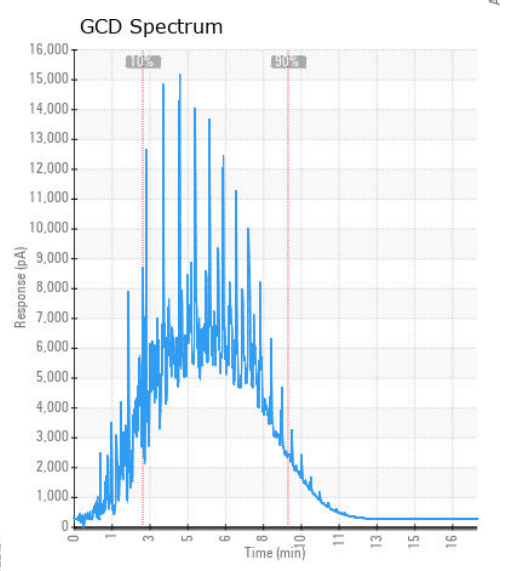
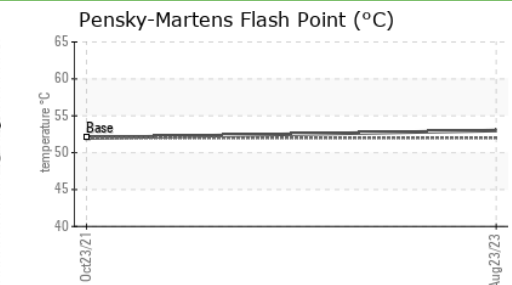
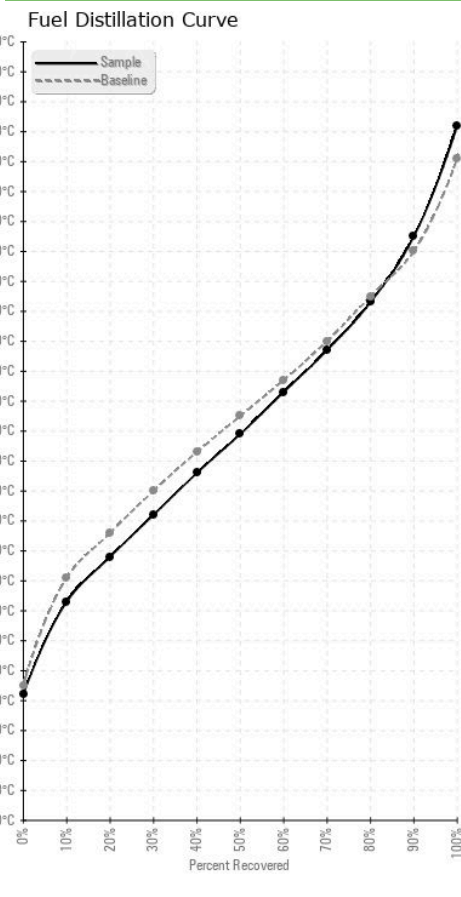


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	---
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.** : CU0021090  
**Lab Number** : 02578275  
**Unique Number** : 5631335  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )

**CUMMINS EASTERN CANADA LP**  
 3189 SWANSEA CRESCENT  
 OTTAWA, ON  
 CA K1G 3W5  
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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.