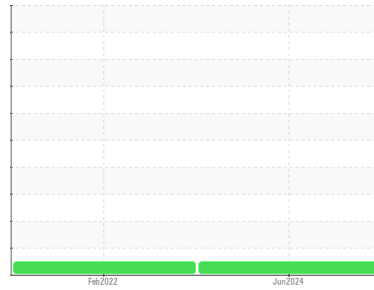




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area  
**JOHNSON CONTROLS**

Machine Id  
**33196952**

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>CU</b>	CU0016603	---
Sample Date	Client Info			<b>09 Jun 2024</b>	07 Feb 2022	---
Machine Age	hrs	Client Info		<b>0</b>	348	---
Sample Status				<b>NORMAL</b>	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.853</b>	0.846	---
Fuel Color	text	Visual Screen*	Yllow	<b>Pink</b>	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.6</b>	2.7	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>68.1</b>	56.9	---

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

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>180</b>	155	---
5% Distillation Point	°C	ASTM D2887*		<b>206</b>	186	---
10% Distill Point	°C	ASTM D2887*	201	<b>216</b>	200	---
15% Distillation Point	°C	ASTM D2887*		<b>223</b>	209	---
20% Distill Point	°C	ASTM D2887*	216	<b>230</b>	216	---
30% Distill Point	°C	ASTM D2887*	230	<b>243</b>	229	---
40% Distill Point	°C	ASTM D2887*	243	<b>253</b>	240	---
50% Distill Point	°C	ASTM D2887*	255	<b>263</b>	251	---
60% Distill Point	°C	ASTM D2887*	267	<b>274</b>	263	---
70% Distill Point	°C	ASTM D2887*	280	<b>285</b>	275	---
80% Distill Point	°C	ASTM D2887*	295	<b>297</b>	287	---
85% Distillation Point	°C	ASTM D2887*		<b>307</b>	296	---
90% Distill Point	°C	ASTM D2887*	310	<b>316</b>	307	---
95% Distillation Point	°C	ASTM D2887*		<b>332</b>	328	---
Final Boiling Point	°C	ASTM D2887*	341	<b>362</b>	344	---

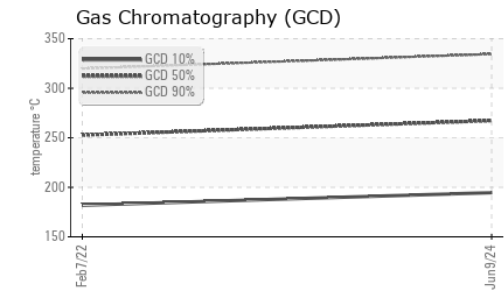
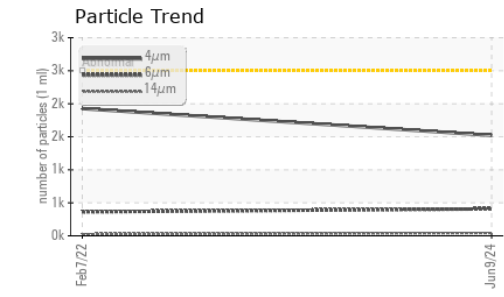
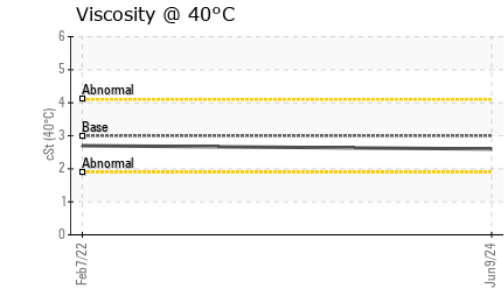
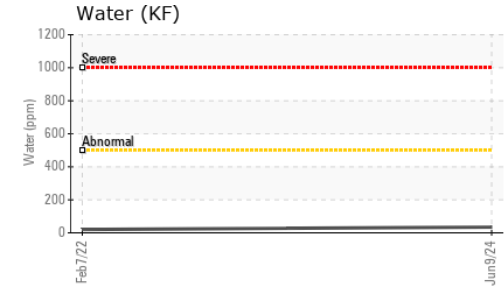
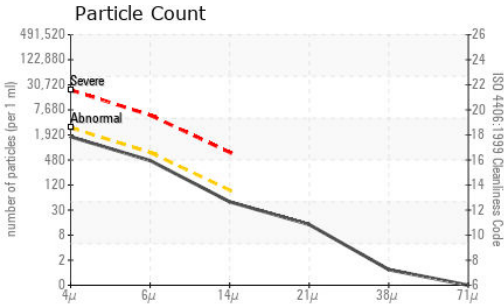
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>34</b>	35	---
Cetane Index		ASTM D4737*	<40.0	<b>44</b>	44	---

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>0.003</b>	0.002	---
ppm Water	ppm	ASTM D6304*	<500	<b>35</b>	20.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>1521</b>	1927	---
Particles >6µm		ASTM D7647	>640	<b>408</b>	363	---
Particles >14µm		ASTM D7647	>80	<b>42</b>	26	---
Particles >21µm		ASTM D7647	>20	<b>12</b>	8	---
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>18/16/13</b>	18/16/12	---

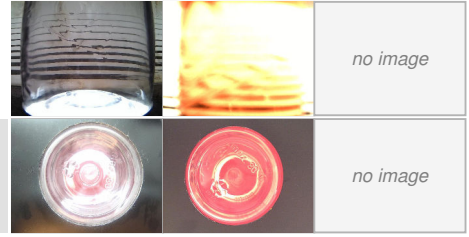


# FUEL REPORT

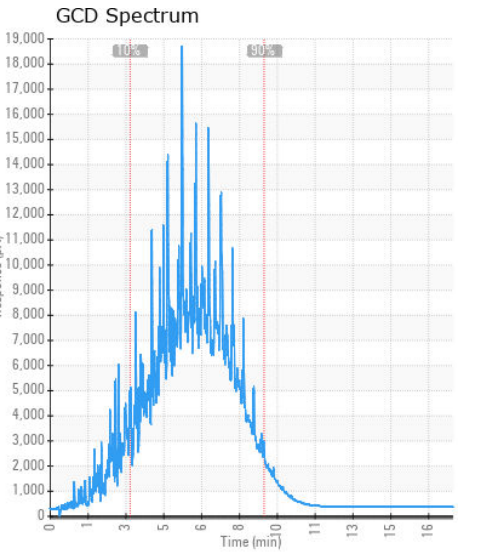
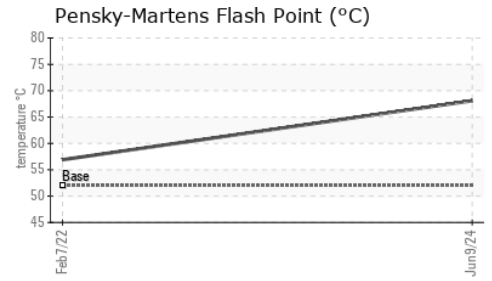
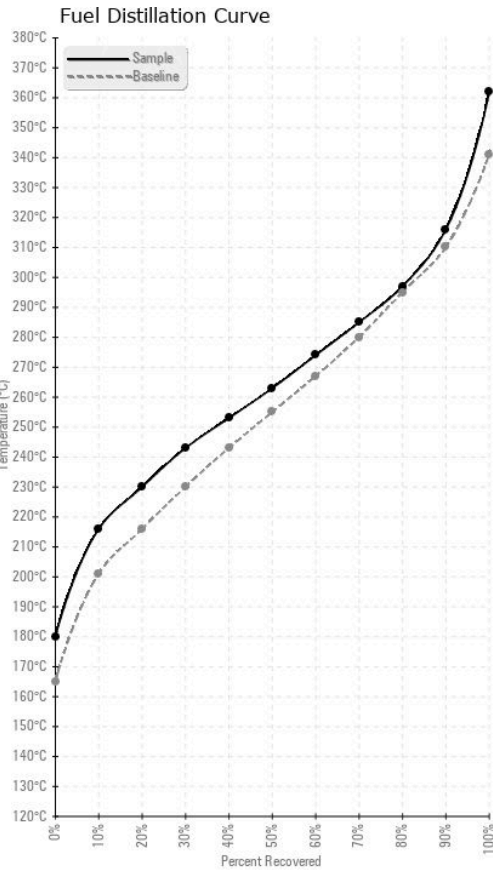


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	0	<1
Calcium	ppm	ASTM D5185(m)	<0.1	0	<1
Magnesium	ppm	ASTM D5185(m)	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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS CANADA ULC - GENERATOR DIVISION**  
**Sample No.** : CU **Received** : 10 Jun 2024 **7175 PACIFIC CIRCLE**  
**Lab Number** : 02640922 **Tested** : 12 Jun 2024 **MISSISSAUGA, ON**  
**Unique Number** : 5798461 **Diagnosed** : 12 Jun 2024 - Kevin Marson **CA L5T 2A5**  
**Test Package** : FUEL ( Additional Tests: CC Flash, PrtCount ) **Contact: Elisia Johnson**  
**To discuss this sample report, contact Customer Service at 1-800-268-2131.** **elisia.johnson@cummins.com**  
**Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.** **T: (905)795-0050**  
**Validity of results and interpretation are based on the sample and information as supplied.** **F: (905)795-9252**