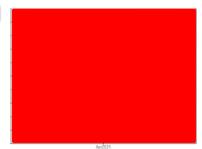


## **FUEL REPORT**

Sample Rating Trend



ISO



[155124] 85003605

Diesel Fuel

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

### DIAGNOSIS

#### Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. 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. Resample in 30-45 days to monitor this situation.

#### Contaminants

There is a high amount of particulates (2 to 100 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.

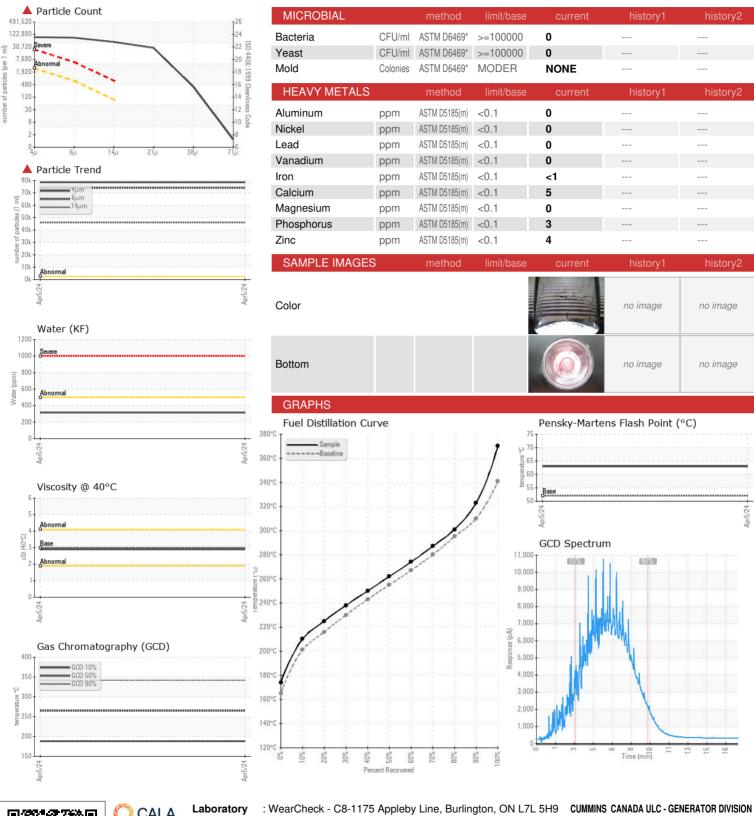
### **Fuel Condition**

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).

R) ( GAL)				Apr2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0023356		
Sample Date		Client Info		05 Apr 2024		
Machine Age	hrs	Client Info		6198		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.851		
Fuel Color	text	Visual Screen*	Yllow	Pink		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	63		
SULFUR CONTE	NΤ	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	14		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	174		
5% Distillation Point	°C	ASTM D2887*		199		
10% Distill Point	°C	ASTM D2887*	201	210		
15% Distillation Point	°C	ASTM D2887*		217		
20% Distill Point	°C	ASTM D2887*	216	225		
30% Distill Point	°C	ASTM D2887*	230	238		
40% Distill Point	°C	ASTM D2887*	243	250		
50% Distill Point	°C	ASTM D2887*	255	262		
60% Distill Point	°C	ASTM D2887*	267	274		
70% Distill Point	°C	ASTM D2887*	280	287		
80% Distill Point	°C	ASTM D2887*	295	301		
85% Distillation Point	°C	ASTM D2887*		312		
90% Distill Point	°C	ASTM D2887*	310	323		
95% Distillation Point	°C	ASTM D2887*		341		
Final Boiling Point	°C	ASTM D2887*	341	370		
IGNITION QUALIT	Υ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	34		
Cetane Index		ASTM D4737*	<40.0	45		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	0		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	< 0.05	0.031		
ppm Water	ppm	ASTM D6304*	<500	316		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>78512</b>		
Particles >6µm		ASTM D7647	>640	<b>4</b> 74047		
Particles >14μm		ASTM D7647	>80	<b>45902</b>		
Particles >21µm		ASTM D7647	>20	<b>23819</b>		
Particles >38µm		ASTM D7647	>4	<b>326</b>		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>23/23/23</b>		



# **FUEL REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

: CU0023356 Lab Number : 02627542 Unique Number : 5760674

Received **Tested** Diagnosed

: 08 Apr 2024 : 15 Apr 2024 : 15 Apr 2024 - Kevin Marson

Test Package : FUEL ( Additional Tests: Bacteria, CC Flash, PrtCount )

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.

Contact/Location: Elisia Johnson - CUMMISGEN

CA L5T 2A5

7175 PACIFIC CIRCLE

Contact: Elisia Johnson

elisia.johnson@cummins.com

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