

FUEL REPORT

Sample Date

Machine Age

Fuel Color

Sulfur

API Gravity

Visc @ 40°C

UNIVERSITY OF TORONTO [152451] 25466055 Component

Diesel Fuel

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

DIAGNOSIS

Recommendation

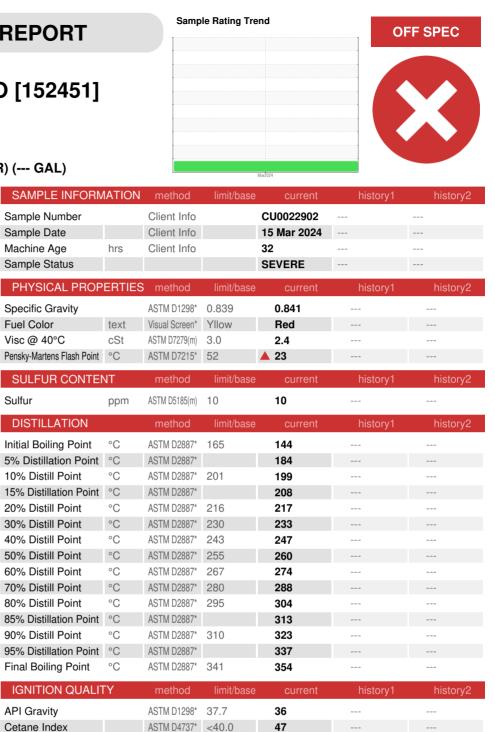
We advise that you check all areas where contaminants can enter the system. We recommend that you drain the fuel from the component if this has not already been done. NOTE: The sample flashed at room temperature indicating the presence of a highly flammable contaminant.

Contaminants

The flash point is lower than normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible.

Fuel Condition

Laboratory tests indicate that this sample does NOT meet specifications for No.2 diesel fuel, low sulfur (CGSB-3.517-3 type A). The fuel is no longer serviceable due to the presence of contaminants.



Cetane Index		ASTM D4737*	<40.0	47		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	<1		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	< 0.05	0.004		
ppm Water	ppm	ASTM D6304*	<500	46		
ELLID CLEANLINESS		method	limit/base	current	history1	history2

I LOID GLEANLINESS	methou	iiiiii/base	Current	Thistory I	Thistory Z
Particles >4µm	ASTM D7647	>2500	1193		
Particles >6µm	ASTM D7647	>640	244		
Particles >14µm	ASTM D7647	>80	10		
Particles >21µm	ASTM D7647	>20	2		
Particles >38µm	ASTM D7647	>4	0		
Particles >71µm	ASTM D7647	>3	0		
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/10		

Contact/Location: Elisia Johnson - CUMMISGEN



FUEL REPORT

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<1

0

0

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0

0

30

25

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15

9,000

8,000

7.000

6,000

5.000

4,000

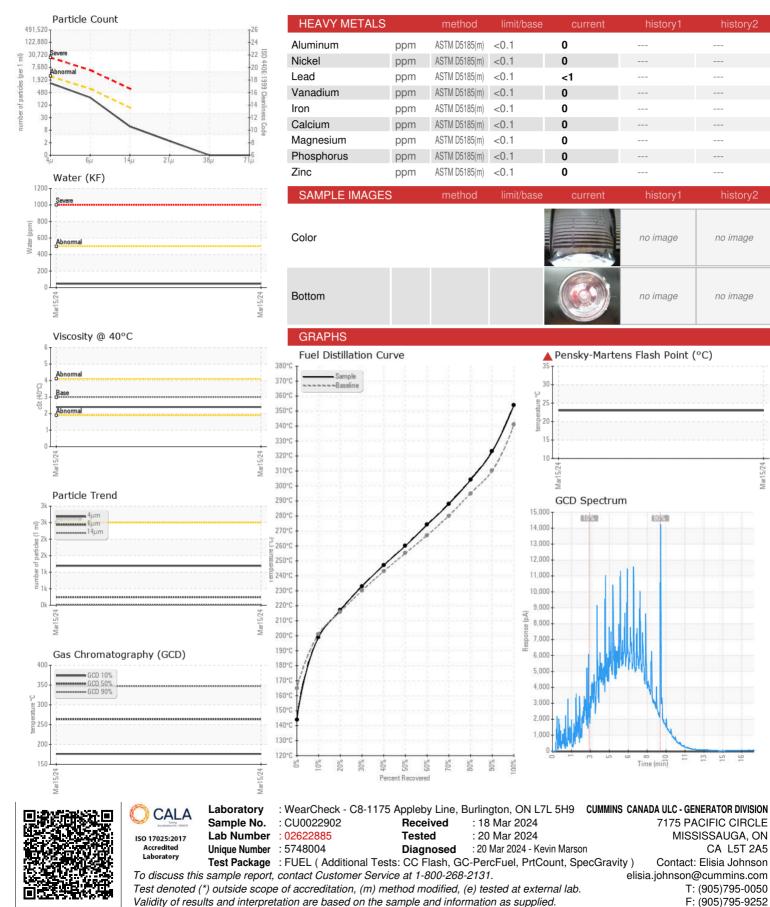
3.000

2.00

1.00

GCD Spectrum

101



Time (min) 7175 PACIFIC CIRCLE

(910 K)

MISSISSAUGA, ON CA L5T 2A5 Contact: Elisia Johnson elisia.johnson@cummins.com T: (905)795-0050 F: (905)795-9252

Report Id: CUMMISGEN [WCAMIS] 02622885 (Generated: 03/20/2024 14:48:08) Rev: 1

Contact/Location: Elisia Johnson - CUMMISGEN

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Pensky-Martens Flash Point (°C)