

## **FUEL REPORT**

#### Sample Rating Trend



#### Area [99830] Machine Id **C917102120** Component

Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. 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. We advise that you filter this fluid before use. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

#### Corrosion

{not applicable}

### Contaminants

There is a high amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

#### **Fuel Condition**

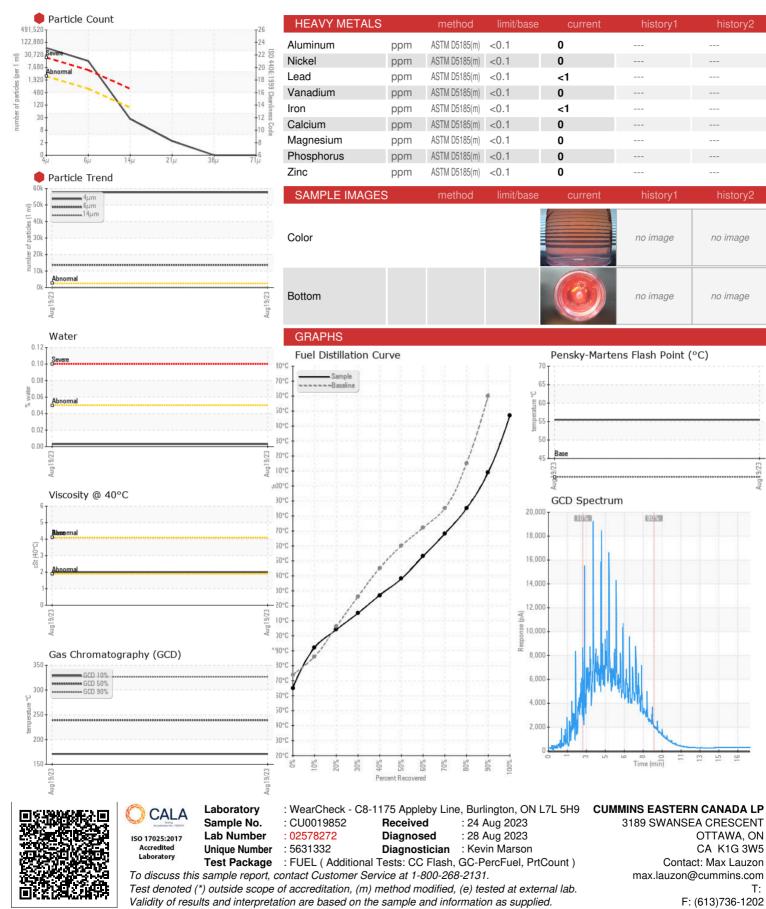
All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0019852		
Sample Date		Client Info		19 Aug 2023		
Machine Age	hrs	Client Info		0		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.850	0.824		
Fuel Color	text	Visual Screen*	YELLO	Red		
Visc @ 40°C	cSt	ASTM D7279(m)	4.1	2		
Pensky-Martens Flash Point	°C	ASTM D7215*	40	55.5		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	174	165		
5% Distillation Point	°C	ASTM D2887*		184		
10% Distill Point	°C	ASTM D2887*	186	192		
15% Distillation Point	°C	ASTM D2887*		198		
20% Distill Point	°C	ASTM D2887*	206	204		
30% Distill Point	°C	ASTM D2887*	226	215		
40% Distill Point	°C	ASTM D2887*	245	227		
50% Distill Point	°C	ASTM D2887*	260	238		
60% Distill Point	°C	ASTM D2887*	272	253		
70% Distill Point	°C	ASTM D2887*	285	268		
80% Distill Point	°C	ASTM D2887*	315	285		
85% Distillation Point	°C	ASTM D2887*		297		
90% Distill Point	°C	ASTM D2887*	360	309		
95% Distillation Point	°C	ASTM D2887*		328		
Final Boiling Point	°C	ASTM D2887*	>360	347		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	35.0	40		
Cetane Index		ASTM D4737*	<40.0	49		
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	<1		
Water	%	ASTM D6304*	<0.05	0.003		
ppm Water	ppm	ASTM D6304*	<500	28.6		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>•</b> 57637		
Particles >6µm		ASTM D7647	>640	<b>13702</b>		
Particles >14µm		ASTM D7647	>80	23		
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	• 23/21/12		
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Contact/Location: Max Lauzon - CUMOTT



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