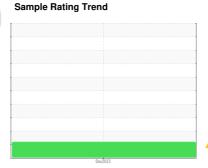


# **FUEL REPORT**

## [149418] Machine Id H000137414

Component **Diesel Fuel** 

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





## DIAGNOSIS

### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

#### Corrosion

{not applicable}

### Contaminants

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

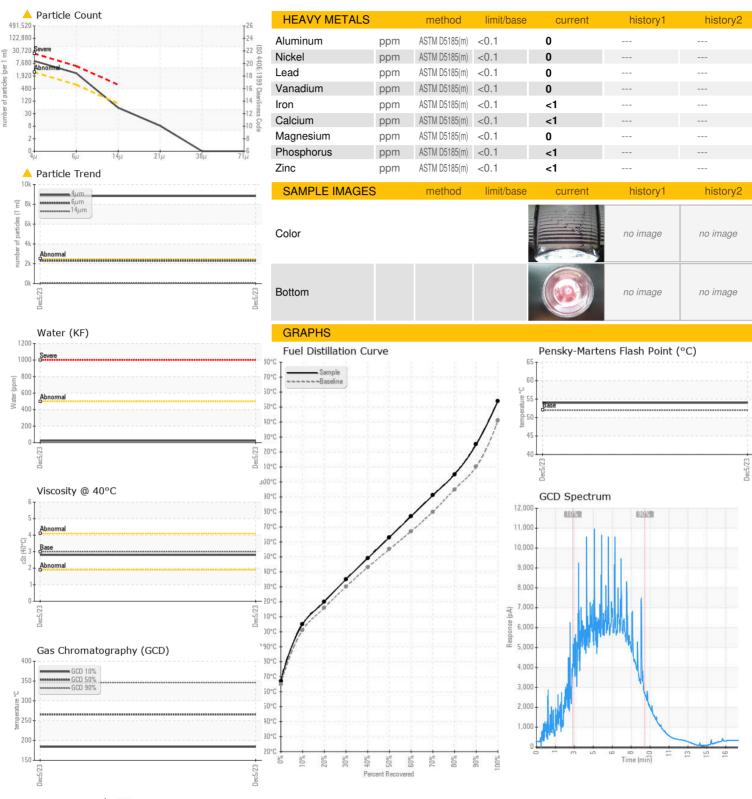
### **Fuel Condition**

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

( GAL)				Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0021466		
Sample Date		Client Info		05 Dec 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.847		
Fuel Color	text	Visual Screen*	Yllow	Red		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.8		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	54		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	13		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	167		
5% Distillation Point	°C	ASTM D2887*		195		
10% Distill Point	°C	ASTM D2887*	201	205		
15% Distillation Point	°C	ASTM D2887*		212		
20% Distill Point	°C	ASTM D2887*	216	220		
30% Distill Point	°C	ASTM D2887*	230	235		
40% Distill Point	°C	ASTM D2887*	243	249		
50% Distill Point	°C	ASTM D2887*	255	263		
60% Distill Point	°C	ASTM D2887*	267	277		
70% Distill Point	°C	ASTM D2887*	280	291		
80% Distill Point	°C	ASTM D2887*	295	305		
85% Distillation Point	°C	ASTM D2887*		315		
90% Distill Point	°C	ASTM D2887*	310	325		
95% Distillation Point	°C	ASTM D2887*		341		
Final Boiling Point	°C	ASTM D2887*	341	354		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35		
Cetane Index		ASTM D4737*	<40.0	46		
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	0.002		
ppm Water	ppm	ASTM D6304*	<500	22		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>8825</b>		
Particles >6µm		ASTM D7647	>640	<b>2296</b>		
Particles >14µm		ASTM D7647	>80	51		
Particles >21µm		ASTM D7647	>20	7		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>2</b> 0/18/13		



## **FUEL REPORT**





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: CU0021466 : 02601364

: 5694449

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION

Received : 06 Dec 2023 Diagnosed : 11 Dec 2023

Diagnostician : Kevin Marson Test Package : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount ) 7175 PACIFIC CIRCLE MISSISSAUGA, ON CA L5T 2A5

Contact: Zaneef Abboobakar zaneef.abboobakar@cummins.com

F: (905)795-0035

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.

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