

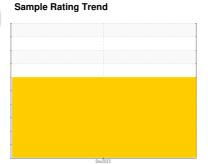
FUEL REPORT

VANTAGE QC-61 [331084]

B-I-N2

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. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. 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. The water content is negligible.

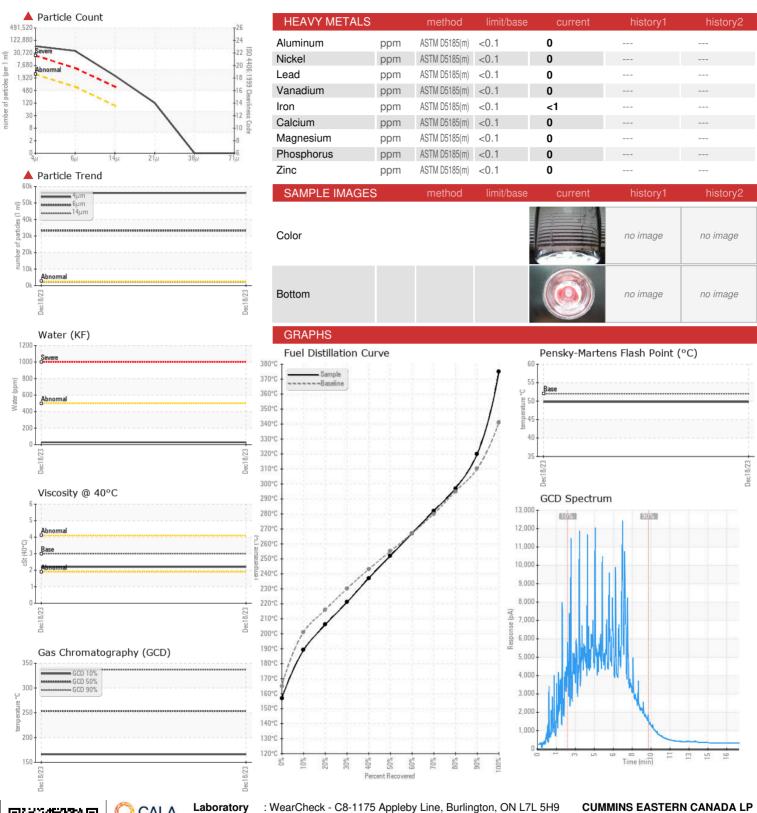
Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. 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).

				DOLOLO		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0022067		
Sample Date		Client Info		18 Dec 2023		
Machine Age	hrs	Client Info		62		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.823		
Fuel Color	text	Visual Screen*	Yllow	Pink		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	49.8		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur				4		,
Sullur	ppm	ASTM D5185(m)	10	4		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	157		
5% Distillation Point	°C	ASTM D2887*		178		
10% Distill Point	°C	ASTM D2887*	201	189		
15% Distillation Point	°C	ASTM D2887*		197		
20% Distill Point	°C	ASTM D2887*	216	206		
30% Distill Point	°C	ASTM D2887*	230	221		
40% Distill Point	°C	ASTM D2887*	243	237		
50% Distill Point	°C	ASTM D2887*	255	252		
60% Distill Point	°C	ASTM D2887*	267	267		
70% Distill Point	°C	ASTM D2887*	280	282		
80% Distill Point	°C	ASTM D2887*	295	297		
85% Distillation Point	°C	ASTM D2887*		308		
90% Distill Point	°C	ASTM D2887*	310	320		
95% Distillation Point	°C	ASTM D2887*		342		
Final Boiling Point	°C	ASTM D2887*	341	375		
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	40		
Cetane Index		ASTM D4737*	<40.0	52		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<1		
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		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4um		ASTM D7647	>2500	▲ 56067		
Particles >6µm		ASTM D7647	>640	▲ 33235		
Particles >14µm		ASTM D7647	>80	▲ 2153		
Particles >21µm		ASTM D7647	>20	108		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	23/22/18		
		(-)				



FUEL REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: CU0022067

: 02604542 Unique Number : 5697627

Received : 20 Dec 2023 **Tested** Diagnosed

: 22 Dec 2023 : 22 Dec 2023 - Kevin Marson

Test Package: FUEL (Additional Tests: CC Flash, GC-PercFuel, 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.

CUMMINS EASTERN CANADA LP

315 AV LIBERTE CANDIAC, QC **CA J5R 6Z7**

Contact: Thomas Owens is275@cummins.com T: (450)638-6863

F: (450)638-1202