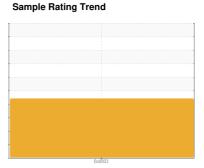


FUEL REPORT

[R1-22767] 73315433

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.

Corrosion

{not applicable

Contaminants

There is a high amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

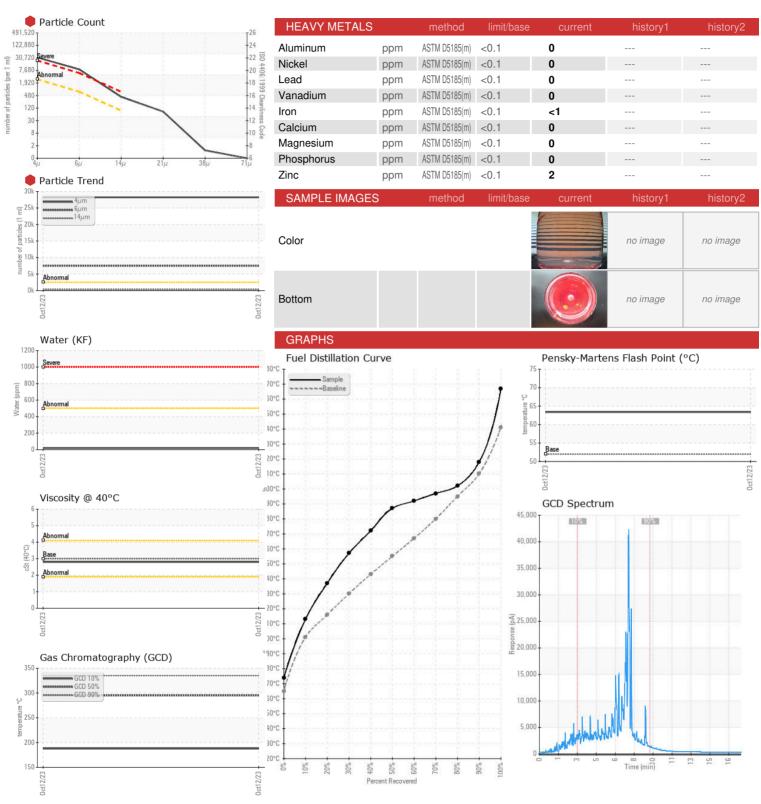
Fuel Condition

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).

R) (GAL)				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		VPA060243		
Sample Date		Client Info		12 Oct 2023		
Machine Age	hrs	Client Info		301		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.809		
Fuel Color	text	Visual Screen*	Yllow	Orang		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.8		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	63.4		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	5		
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	213		
15% Distillation Point	°C	ASTM D2887*		225		
20% Distill Point	°C	ASTM D2887*	216	237		
30% Distill Point	°C	ASTM D2887*	230	257		
40% Distill Point	°C	ASTM D2887*	243	272		
50% Distill Point	°C	ASTM D2887*	255	287		
60% Distill Point	°C	ASTM D2887*	267	292		
70% Distill Point	°C	ASTM D2887*	280	297		
80% Distill Point	°C	ASTM D2887*	295	302		
85% Distillation Point	°C	ASTM D2887*		310		
90% Distill Point	°C	ASTM D2887*	310	318		
95% Distillation Point	°C	ASTM D2887*		334		
Final Boiling Point	°C	ASTM D2887*	341	367		
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	43		
Cetane Index		ASTM D4737*	<40.0	70		
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	<1		
Water	%	ASTM D6304*	< 0.05	0.002		
ppm Water	ppm	ASTM D6304*	< 500	20.4		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	28224		
Particles >6µm		ASTM D7647	>640	7509		
Particles >14µm		ASTM D7647	>80	△ 363		
Particles >21µm		ASTM D7647	>20	<u>^</u> 72		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	22/20/16		



FUEL REPORT





CALA ISO 17025:2017 Accredited

Laboratory

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

: VPA060243

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CULLEN DIESEL POWER - 695335 : 02590427

Received : 19 Oct 2023 Diagnosed Diagnostician : Kevin Marson

: 23 Oct 2023

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

CA V4N 3R8 Contact: Venu Iyer vgi@cullendiesel.com T: (604)455-2207

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: 5659493

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.

9300 192 ST

SURREY, BC