

FUEL REPORT

Sample Rating Trend **OFF SPEC**

4100 GORDON BAKER

Component **Diesel Fuel**

No.2 DIESEL FUEL (ULTRALOW SULPHUF

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

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.

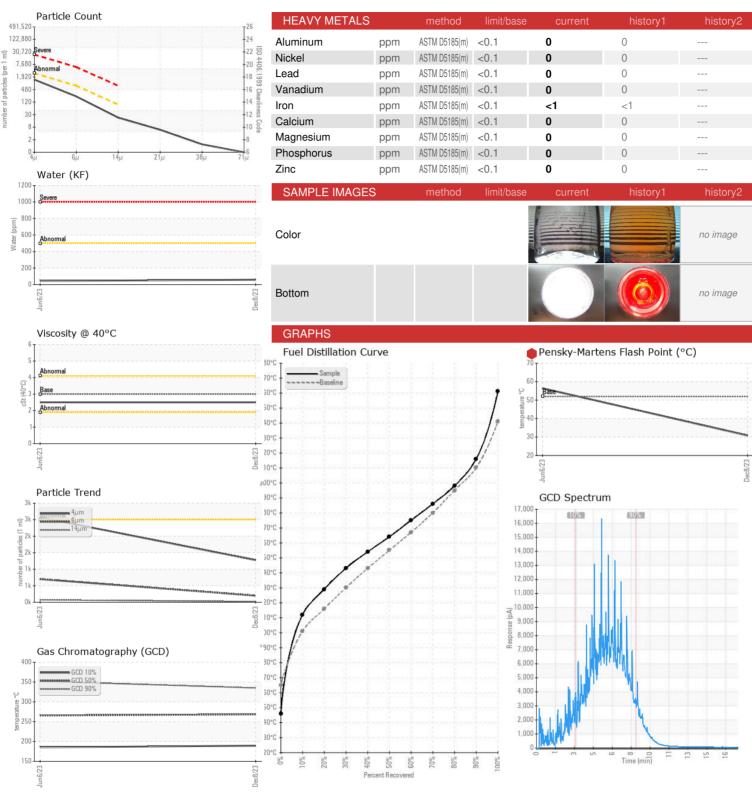
Fuel Condition

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

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l) (GAL)			Jun 2023	Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP0000878	WC0851952	
Sample Date		Client Info		08 Dec 2023	06 Jun 2023	
Machine Age	hrs	Client Info		0	0	
Sample Status				SEVERE	ATTENTION	
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.851	0.837	
Fuel Color	text	Visual Screen*	Yllow	Orang	Red	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.5	2.5	
Pensky-Martens Flash Point	°C	ASTM D7215*	52	● 30.8	56.4	
SULFUR CONTE	VT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	15	7	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	146	168	
5% Distillation Point	°C	ASTM D2887*		195	196	
10% Distill Point	°C	ASTM D2887*	201	212	206	
15% Distillation Point	°C	ASTM D2887*		220	214	
20% Distill Point	°C	ASTM D2887*	216	229	221	
30% Distill Point	°C	ASTM D2887*	230	243	236	
40% Distill Point	°C	ASTM D2887*	243	254	249	
50% Distill Point	°C	ASTM D2887*	255	264	263	
60% Distill Point	°C	ASTM D2887*	267	275	277	
70% Distill Point	°C	ASTM D2887*	280	286	291	
80% Distill Point	°C	ASTM D2887*	295	298	307	
35% Distillation Point	°C	ASTM D2887*		307	316	
90% Distill Point	°C	ASTM D2887*	310	316	325	
95% Distillation Point	°C	ASTM D2887*	0.0	332	336	
Final Boiling Point	°C	ASTM D2887*	341	361	352	
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	34	37	
Cetane Index		ASTM D4737*	<40.0	45	50	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<1	0	
Sodium	ppm	ASTM D5185(m)	< 0.1	<1	0	
Potassium	ppm	ASTM D5185(m)	<0.1	0	<1	
Water	%	ASTM D6304*	< 0.05	0.005	0.004	
opm Water	ppm	ASTM D6304*	<500	59	43.3	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1272	<u>^</u> 2568	
Particles >6µm		ASTM D7647	>640	199	<u> </u>	
Particles >14µm		ASTM D7647	>80	19	72	
Particles >21µm		ASTM D7647		5	26	
Particles >38µm		ASTM D7647	>4	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/11	▲ 19/17/13	
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CALA ISO 17025:2017 Accredited

Laboratory

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

: PP0000878

: 02602948 : 5696033

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved Diagnosed

: 13 Dec 2023 : 18 Dec 2023 Diagnostician : Kevin Marson

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

4100 Gordon Baker Road,, SCC A2W011 Toronto, ON CA M1W 3E8

Contact: Blaine Setterfield Blaine.Setterfield@bmo.com T: (437)788-3087

BMO Financial Group

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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