

FUEL REPORT

Sample Rating Trend



WL0348 Component

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR

DIAGNOSIS

Recommendation

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. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

Contaminants

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

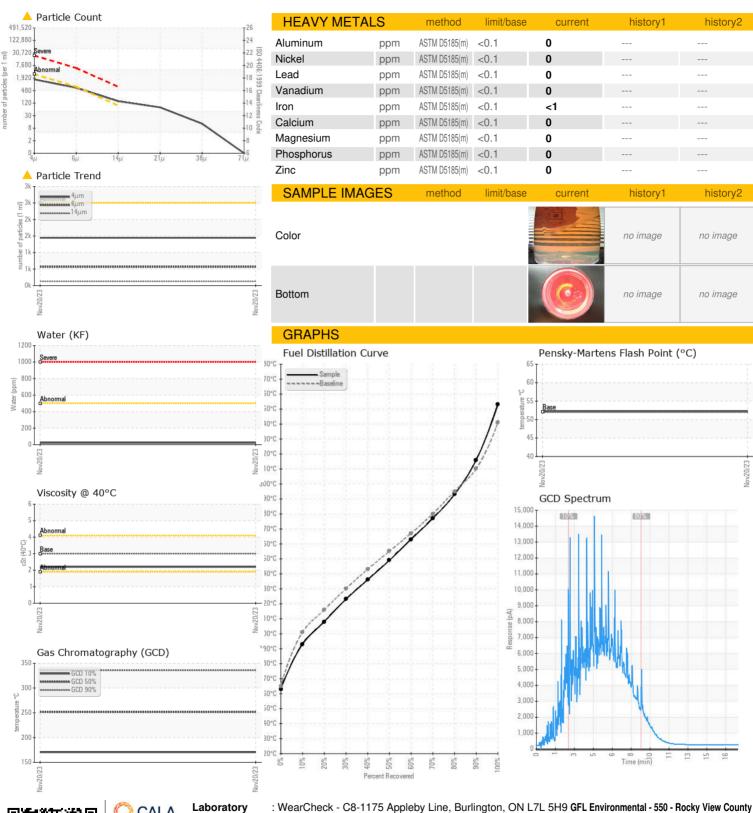
Fuel Condition

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)				Nov2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099581		
Sample Date		Client Info		20 Nov 2023		
Machine Age	hrs	Client Info		6620		
Sample Status		CHOIL HIIO		ABNORMAL		
PHYSICAL PROP	FRTIES	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	2.2		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	52.2		
SULFUR CONT	_	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	163		
5% Distillation Point	°C	ASTM D2887*		183		
10% Distill Point	°C	ASTM D2887*	201	193		
15% Distillation Point	°C	ASTM D2887*		201		
20% Distill Point	°C	ASTM D2887*	216	208		
30% Distill Point	°C	ASTM D2887*	230	223		
40% Distill Point	°C	ASTM D2887*	243	236		
50% Distill Point	°C	ASTM D2887*	255	249		
60% Distill Point	°C	ASTM D2887*	267	263		
70% Distill Point	°C	ASTM D2887*	280	277		
80% Distill Point	°C	ASTM D2887*	295	293		
85% Distillation Point	°C	ASTM D2887*		304		
90% Distill Point	°C	ASTM D2887*	310	316		
95% Distillation Point	°C	ASTM D2887*		334		
Final Boiling Point	°C	ASTM D2887*	341	353		
IGNITION QUA	LITY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35		
Cetane Index		ASTM D4737*	<40.0	43		
CONTAMINAN	TS	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 CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1447		
Particles >6µm		ASTM D7647	>640	566		
Particles >14µm		ASTM D7647	>80	130		
Particles >21µm		ASTM D7647	>20	<u>^</u> 66		
Particles >38µm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/16/14		



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CALA ISO 17025:2017 Accredited

Laboratory

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

: GFL0099581 : 5694159

: 02601074

Received : 05 Dec 2023 Diagnosed : 07 Dec 2023

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

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com T:

F: (403)369-6163

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.