

FUEL REPORT

Sample Rating Trend

ISO

Area [99828] Machine Id N3113 SCCT1 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 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

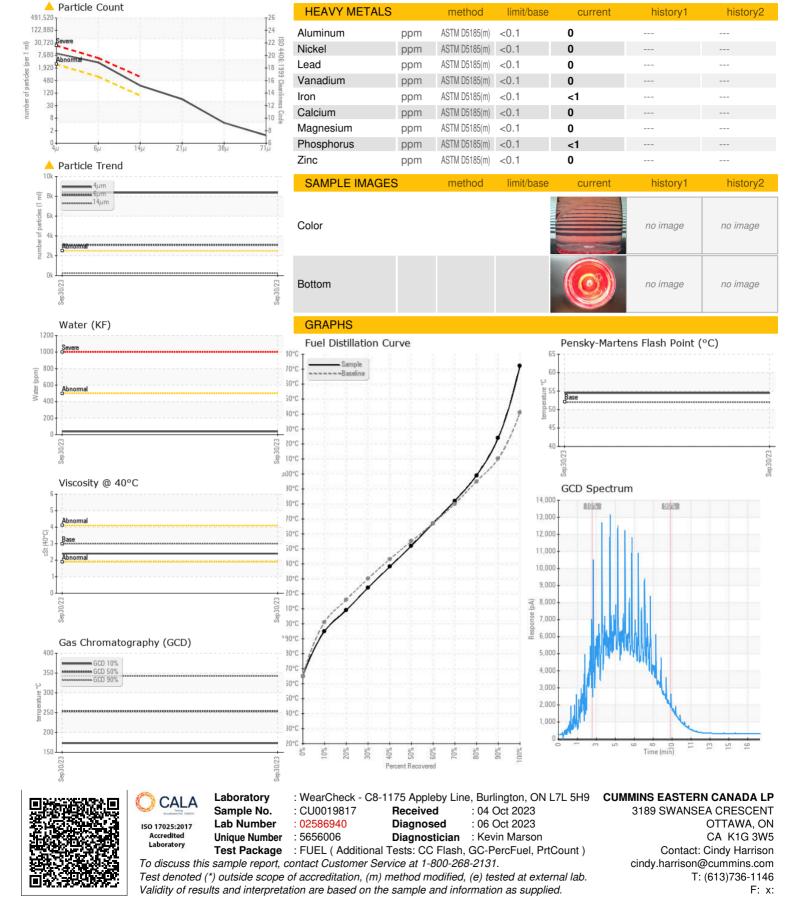
The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

) (GAL)				Sep2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0019817		
Sample Date		Client Info		30 Sep 2023		
Machine Age	hrs	Client Info		501		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.829		
Fuel Color	text	Visual Screen*	Yllow	Pink		
/isc @ 40°C	cSt	ASTM D7279(m)	3.0	2.4		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	54.5		
SULFUR CONTER	T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	8		
DISTILLATION		method	limit/base	current	history1	history2
nitial Boiling Point	°C	ASTM D2887*	165	165		
5% Distillation Point	°C	ASTM D2887*		186		
0% Distill Point	°C	ASTM D2887*	201	195		
5% Distillation Point	°C	ASTM D2887*		202		
20% Distill Point	°C	ASTM D2887*	216	209		
30% Distill Point	°C	ASTM D2887*	230	224		
0% Distill Point	°C	ASTM D2887*	243	238		
50% Distill Point	°C	ASTM D2887*	255	252		
0% Distill Point	°C	ASTM D2887*	267	267		
70% Distill Point	°C	ASTM D2887*	280	282		
80% Distill Point	°C	ASTM D2887*	295	299		
5% Distillation Point	°C	ASTM D2887*	200	311		
0% Distill Point	°C	ASTM D2887*	310	324		
95% Distillation Point	°C	ASTM D2887*	010	345		
Final Boiling Point	°C	ASTM D2887*	341	372		
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IGNITION QUALIT	ΙΥ		limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	39		
Cetane Index		ASTM D4737*	<40.0	50		
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		
Vater	%	ASTM D6304*	<0.05	0.003		
opm Water	ppm	ASTM D6304*	<500	38.4		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> </u>		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> </u>		
· Particles >38μm		ASTM D7647	>4	4		
Particles >71µm		ASTM D7647	>3	1		
Dil Cleanliness		ISO 4406 (c)	>18/16/13	A 20/19/15		
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Contact/Location: Cindy Harrison - CUMOTT



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