

# **FUEL REPORT**

Sample Rating Trend

ISO

# Area [132358] Machine Id 78 THOMAS ST

Component Diesel Fuel Fluid No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

# DIAGNOSIS

#### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

#### Corrosion

{not applicable}

#### Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

# **Fuel Condition**

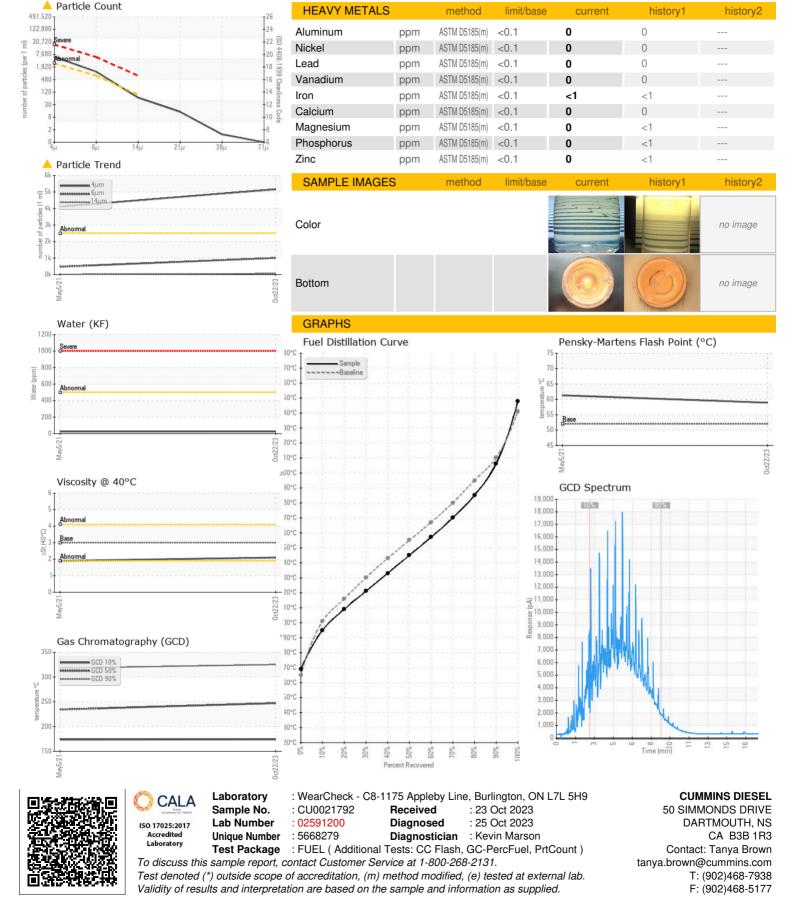
All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0021792	CU0017831	
Sample Date		Client Info		22 Oct 2023	05 May 2021	
Machine Age	hrs	Client Info		0	0	
Sample Status	ino			ABNORMAL	ATTENTION	
PHYSICAL PROP			line it /h = = =	-		history O
	ENTIES		limit/base		history1	history2
Specific Gravity		ASTM D1298*	0.839	0.833	0.834	
Fuel Color	text	Visual Screen*	Yllow	Yllow	Orang	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.1	1.9	
Pensky-Martens Flash Point	°C	ASTM D7215*	52	58.9	61.3	
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	43	68	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	169	163	
5% Distillation Point	°C	ASTM D2887*		187	185	
10% Distill Point	°C	ASTM D2887*	201	195	193	
15% Distillation Point	°C	ASTM D2887*		202	198	
20% Distill Point	°C	ASTM D2887*	216	209	204	
30% Distill Point	°C	ASTM D2887*	230	221	215	
40% Distill Point	°C	ASTM D2887*	243	233	226	
50% Distill Point	°C	ASTM D2887*	255	245	239	
60% Distill Point	°C	ASTM D2887*	267	257	252	
70% Distill Point	°C	ASTM D2887*	280	270	265	
80% Distill Point	°C	ASTM D2887*	295	285	279	
85% Distillation Point	°C	ASTM D2887*		296	290	
90% Distill Point	°C	ASTM D2887*	310	306	306	
95% Distillation Point	°C	ASTM D2887*		324	331	
Final Boiling Point	°C	ASTM D2887*	341	348	366	
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	38	38	
Cetane Index		ASTM D1290 ASTM D4737*	<40.0	47	45	
					-	
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	
Sodium	ppm	ASTM D5185(m)	<0.1	<1	<1	
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	
Water	%	ASTM D6304*	<0.05	0.003	0.003	
ppm Water	ppm	ASTM D6304*	<500	25.7	25.3	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>6</b> 5163	<b>4</b> 111	
Particles >6µm		ASTM D7647	>640	<u> </u>	473	
Particles >14µm		ASTM D7647	>80	57	13	
Particles >21µm		ASTM D7647	>20	12	3	
Particles >38µm		ASTM D7647	>4	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>A</b> 20/17/13	▲ 19/16/11	
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Contact/Location: Tanya Brown - CUMDAR



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