

FUEL REPORT

Sample Rating Trend

ISO



MACK 2073

Component Diesel Fuel Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- LTR)

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. Please contact your representative for information regarding the proper sampling kits for your service.

Corrosion

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

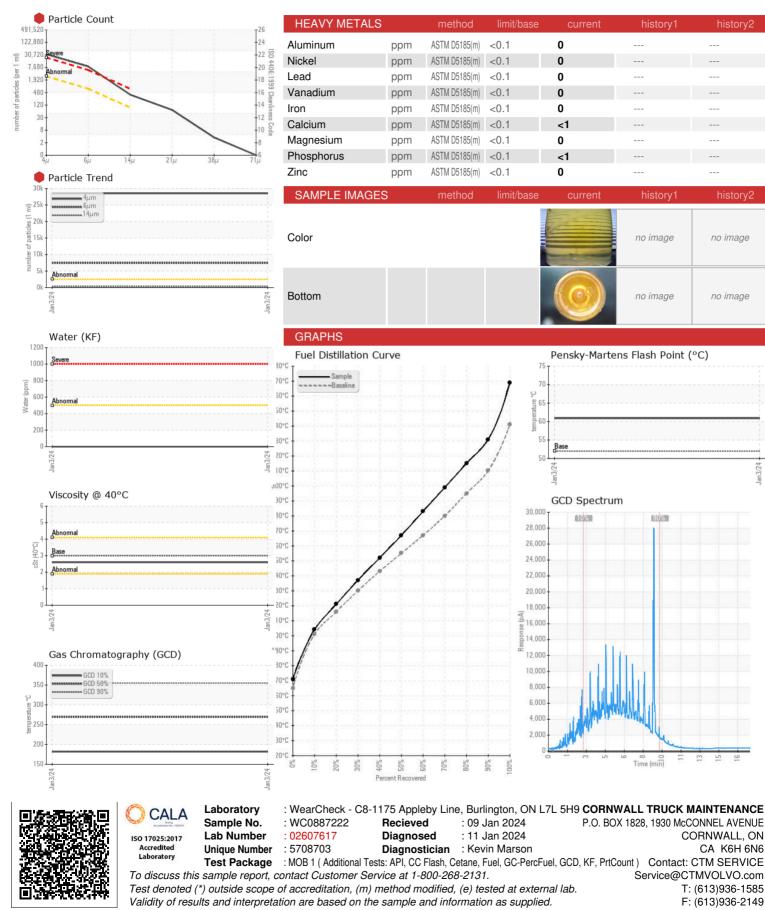
The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

				Jan2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887222		
Sample Date		Client Info		03 Jan 2024		
Machine Age	kms	Client Info		497000		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.841		
Fuel Color	text	Visual Screen*	Yllow	Yllow		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	60.9		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	171		
5% Distillation Point	°C	ASTM D2887*		194		
10% Distill Point	°C	ASTM D2887*	201	204		
15% Distillation Point	°C	ASTM D2887*		213		
20% Distill Point	°C	ASTM D2887*	216	221		
30% Distill Point	°C	ASTM D2887*	230	237		
40% Distill Point	°C	ASTM D2887*	243	252		
50% Distill Point	°C	ASTM D2887*	255	267		
60% Distill Point	°C	ASTM D2887*	267	283		
70% Distill Point	°C	ASTM D2887*	280	299		
80% Distill Point	°C	ASTM D2887*	295	315		
85% Distillation Point	°C	ASTM D2887*		323		
90% Distill Point	°C	ASTM D2887*	310	331		
95% Distillation Point	°C	ASTM D2887*		340		
Final Boiling Point	°C	ASTM D2887*	341	369		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36		
Cetane Index		ASTM D4737*	<40.0	49		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	<0.1	<1		
Water	%	ASTM D6304*	<0.05	0.00		
ppm Water	ppm	ASTM D6304*	<500	0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	e 28522		
Particles >6µm		ASTM D7647	>640	e 7429		
Particles >14µm		ASTM D7647	>80	A 335		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	3		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	22/20/16		

Contact/Location: CTM SERVICE - CORCOR



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