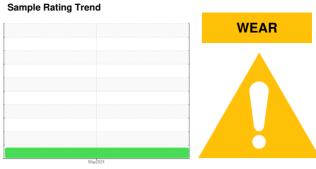


FUEL REPORT

BEANFIELD TECHNOLOGIES [154967] WJ3889N1167322

Diesel Fuel

No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)



DIAGNOSIS

Recommendation

The fuel change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Corrosion

Iron ppm levels are abnormal. The high metal levels indicate corrosion in the system.

Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

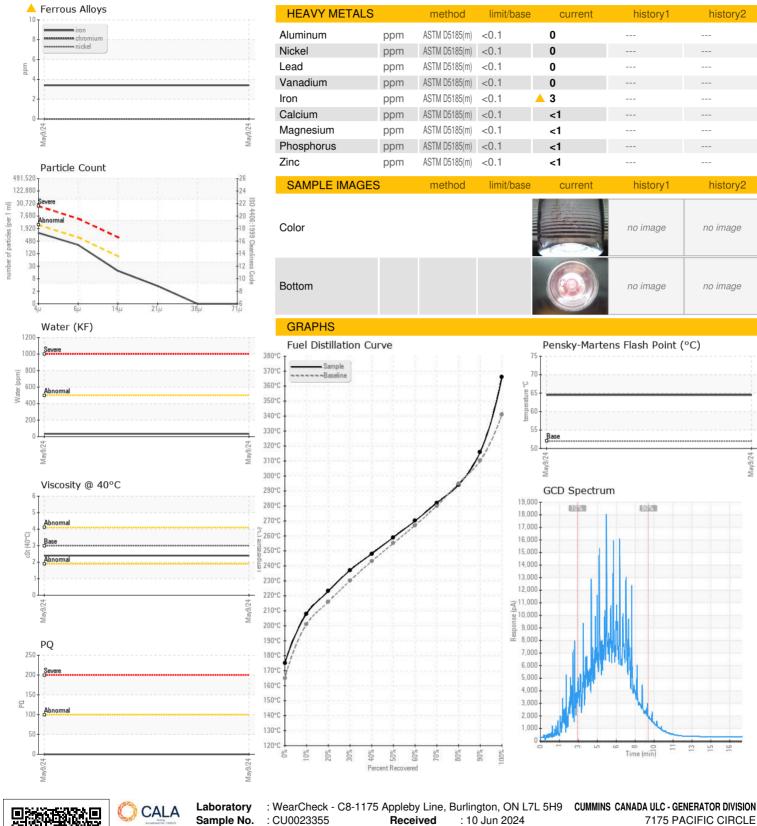
Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

AL)		<u> </u>	ı	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0023355		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		235		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.842		
Fuel Color	text	Visual Screen*	Yllow	Pink		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.4		
Pensky-Martens Flash Point		ASTM D7215*	52	64.5		
SULFUR CONTE		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	123		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	175		
5% Distillation Point	°C	ASTM D2887*	100	197		
10% Distill Point	°C	ASTM D2887*	201	208		
15% Distillation Point	°C	ASTM D2887*		216		
20% Distill Point	°C	ASTM D2887*	216	223		
30% Distill Point	°C	ASTM D2887*	230	237		
40% Distill Point	°C	ASTM D2887*	243	248		
50% Distill Point	°C	ASTM D2887*	255	259		
60% Distill Point	°C	ASTM D2887*	267	270		
70% Distill Point	°C	ASTM D2887*	280	282		
80% Distill Point	°C	ASTM D2887*	295	294		
85% Distillation Point	°C	ASTM D2887*	233	305		
90% Distill Point	°C	ASTM D2887*	310	316		
95% Distillation Point	°C	ASTM D2887*	310	337		
	°C	ASTM D2887*	2.41			
Final Boiling Point			341	366		
IGNITION QUALIT	ΙY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36		
Cetane Index		ASTM D4737*	<40.0	47		
CONTAMINANTS		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	0		
Water	%	ASTM D6304*	< 0.05	0.003		
ppm Water	ppm	ASTM D6304*	< 500	34		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	1052		
Particles >6µm		ASTM D7647	>640	278		
Particles >14µm		ASTM D7647	>80	16		
Particles >21µm		ASTM D7647	>20	3		
Particles >38μm		ASTM D7647	>4	0		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/11		



FUEL REPORT





ISO 17025:2017 Accredited Laboratory

Sample No.

Lab Number : 02640926 Unique Number : 5798465

: CU0023355 **Tested**

Validity of results and interpretation are based on the sample and information as supplied.

: 12 Jun 2024 Diagnosed : 12 Jun 2024 - Kevin Marson

Test Package: FUEL (Additional Tests: CC Flash, PQ, PrtCount)

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. 7175 PACIFIC CIRCLE MISSISSAUGA, ON

> CA L5T 2A5 Contact: Elisia Johnson elisia.johnson@cummins.com

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