

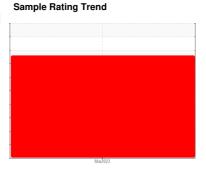
FUEL REPORT

KIOTI C5.2210

Component

Diesel Fuel

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





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.

Corrosion

Contaminants

Particles >14µm are severely high. Particles >21µm are severely high. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. The water content is negligible.

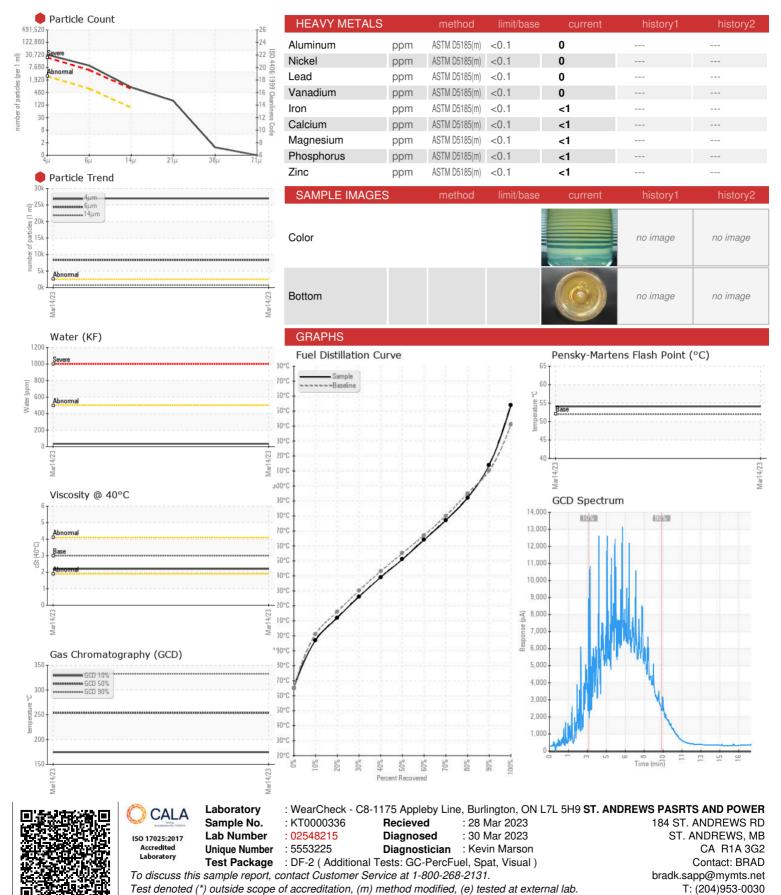
Fuel Condition

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)				Mar2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000336		
Sample Date		Client Info		14 Mar 2023		
Machine Age	hrs	Client Info		104		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.848		
Fuel Color	text	Visual Screen*	Yllow	Yllow		
ASTM Color	scalar	ASTM D1500*		<1.5		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	54.1		
SULFUR CONTER	VT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	11		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	165		
5% Distillation Point	°C	ASTM D2887*		187		
10% Distill Point	°C	ASTM D2887*	201	197		
15% Distillation Point	°C	ASTM D2887*		205		
20% Distill Point	°C	ASTM D2887*	216	212		
30% Distill Point	°C	ASTM D2887*	230	226		
40% Distill Point	°C	ASTM D2887*	243	239		
50% Distill Point	°C	ASTM D2887*	255	251		
60% Distill Point	°C	ASTM D2887*	267	264		
70% Distill Point	°C	ASTM D2887*	280	277		
80% Distill Point	°C	ASTM D2887*	295	292		
85% Distillation Point	°C	ASTM D2887*		303		
90% Distill Point	°C	ASTM D2887*	310	314		
95% Distillation Point	°C	ASTM D2887*		333		
Final Boiling Point	°C	ASTM D2887*	341	354		
IGNITION QUALIT	ГΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35		
Cetane Index		ASTM D4737*	<40.0	43		
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	34.4		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	26972		
Particles >6µm		ASTM D7647	>640	8306		
Particles >14µm		ASTM D7647	>80	751		
Particles >21µm		ASTM D7647	>20	171		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	22/20/17	ocation: BRAD	? - STA184ST



FUEL REPORT



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

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