

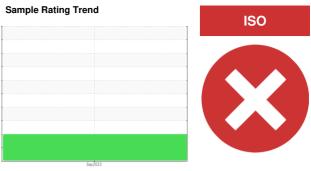
FUEL REPORT

THE STATE GROUP [174787] Machine Id 526105159 GEN YELLOW

Component

Diesel Fuel

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



DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. 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. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

Corrosion

{not applicable}

Contaminants

There is a high amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

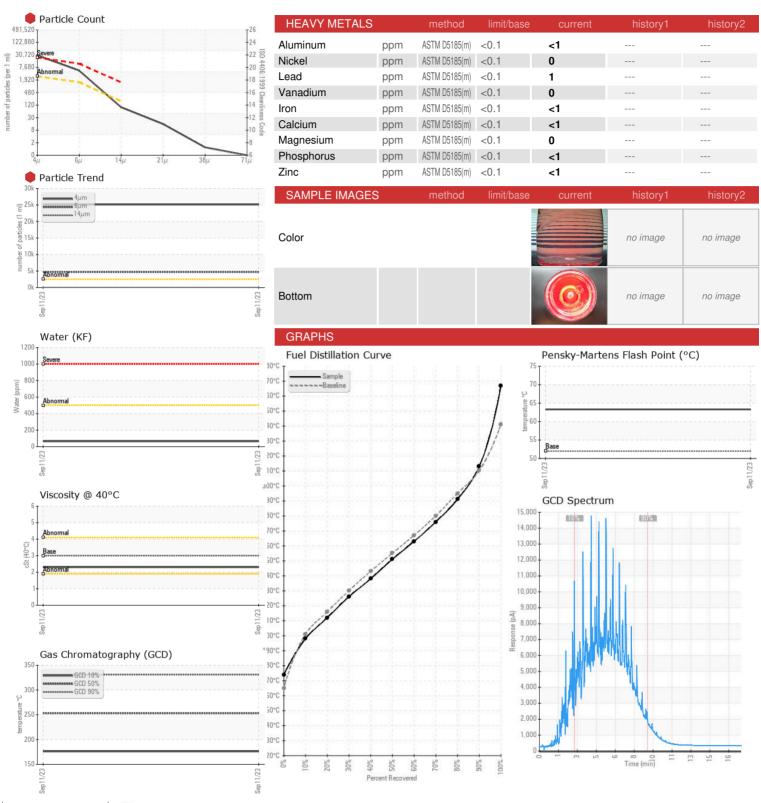
Fuel Condition

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). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

R) (GAL)				Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WA0019637		
Sample Date		Client Info		11 Sep 2023		
Machine Age	yrs	Client Info		0		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.838		
Fuel Color	text	Visual Screen*	Yllow	Pink		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.3		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	63.3		
SULFUR CONTE		method	limit/base			history2
Sulfur			10	current 13	history1	HISTOLYZ
	ppm	ASTM D5185(m)				
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	174		
5% Distillation Point	°C	ASTM D2887*		190		
10% Distill Point	°C	ASTM D2887*	201	198		
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	238		
50% Distill Point	°C	ASTM D2887*	255	251		
60% Distill Point	°C	ASTM D2887*	267	263		
70% Distill Point	°C	ASTM D2887*	280	276		
80% Distill Point	°C	ASTM D2887*	295	291		
85% Distillation Point	°C	ASTM D2887*		302		
90% Distill Point	°C	ASTM D2887*	310	313		
95% Distillation Point	°C	ASTM D2887*		332		
Final Boiling Point	°C	ASTM D2887*	341	367		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	37		
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	0		
Potassium	ppm	ASTM D5185(m)	<0.1	4		
Water	%	ASTM D6304*	< 0.05	0.006		
ppm Water	ppm	ASTM D6304*	<500	64.7		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	25134		
Particles >6µm		ASTM D7647	>1300	4723		
Particles >14µm		ASTM D7647	>160	83		
Particles >21µm		ASTM D7647	>40	13		
Particles >38μm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/17/14	22/19/14		



FUEL REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WA0019637 : 02586946

: 5656012

Received

: 04 Oct 2023 Diagnosed : 06 Oct 2023 Diagnostician : Kevin Marson

Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, 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. Validity of results and interpretation are based on the sample and information as supplied.

Wajax Power Systems 10 Diesel Drive Toronto, ON **CA M8W 2T8** Contact: David Gilkes dgilkes@wajax.com

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