

# **FUEL REPORT**

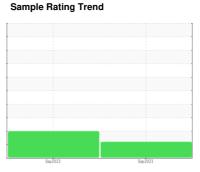
# THE STATE GROUP [174787] Machine Id 324002-1-2-0810 526105114 - GEN:BLUE

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 LTR)





## 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. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

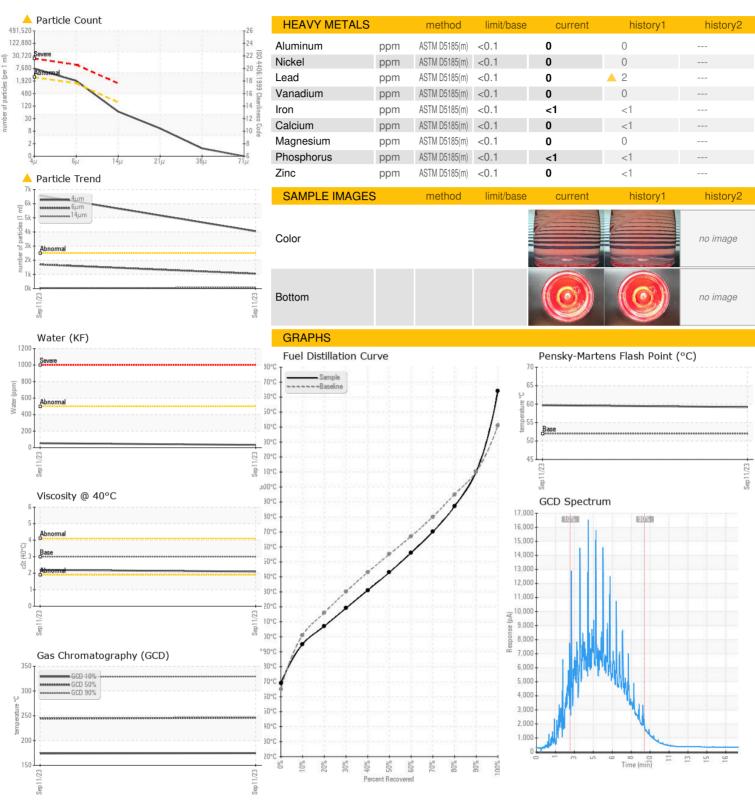
#### **Fuel Condition**

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.

1) (200 £111)		L	Sep2023	Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WA0019635	WA0019634	
Sample Date		Client Info		11 Sep 2023	11 Sep 2023	
Machine Age	yrs	Client Info		0	0	
Sample Status				ABNORMAL	ABNORMAL	
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.829	0.831	
Fuel Color	text	Visual Screen*	Yllow	Pink	Pink	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.1	2.2	
Pensky-Martens Flash Point	°C	ASTM D7215*	52	59.2	59.7	
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	12	14	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	169	171	
5% Distillation Point	°C	ASTM D2887*		187	188	
10% Distill Point	°C	ASTM D2887*	201	195	196	
15% Distillation Point	°C	ASTM D2887*	201	201	202	
20% Distill Point	°C	ASTM D2887*	216	207	208	
30% Distill Point	°C	ASTM D2887*	230	219	220	
40% Distill Point	°C	ASTM D2887*	243	231	232	
50% Distill Point	°C	ASTM D2887*	255	243	244	
	°C				258	
60% Distill Point		ASTM D2887*	267	256		
70% Distill Point	°C	ASTM D2887*	280	270	271	
80% Distill Point	°C	ASTM D2887*	295	287	287	
85% Distillation Point	°C	ASTM D2887*	0.10	298	299	
90% Distill Point	°C	ASTM D2887*	310	310	311	
95% Distillation Point	°C	ASTM D2887*		330	330	
Final Boiling Point	°C	ASTM D2887*	341	364	<b>▲</b> 363	
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	39	38	
Cetane Index		ASTM D4737*	<40.0	48	48	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	
Sodium	ppm	ASTM D5185(m)	<0.1	0	0	
Potassium	ppm	ASTM D5185(m)	<0.1	<1	3	
Water	%	ASTM D6304*	< 0.05	0.003	0.005	
ppm Water	ppm	ASTM D6304*	<500	33.6	53.6	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>△</b> 6562	<b>4</b> 050	
Particles >6µm		ASTM D7647	>1300	<u> </u>	1050	
Particles >14µm		ASTM D7647	>160	58	64	
Particles >21µm		ASTM D7647	>40	9	13	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>18/17/14	<u>^</u> 20/18/13	<b>▲</b> 19/17/13	



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CALA ISO 17025:2017 Accredited

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

: WA0019635

: 02586944 : 5656010

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