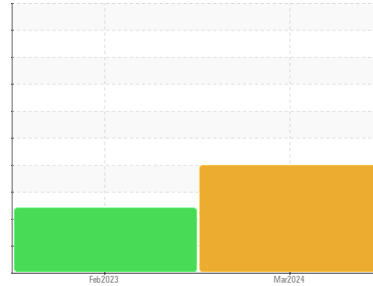


FUEL REPORT

Sample Rating Trend

ISO

Area
FEDERAL WHITE CEMENT [254546]
Machine Id
SPECTRUM 610000 FWC - 125kw at 600V WH1306N1154136
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- LTR)



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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

▲ 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 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WA0020926	WA0018772	---
Sample Date	Client Info		06 Mar 2024	15 Feb 2023	---
Machine Age	hrs	Client Info	537	513	---
Sample Status			SEVERE	SEVERE	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839	0.845	0.844	---
Fuel Color	text	Visual Screen*	Red	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	2.8	2.8	---
Pensky-Martens Flash Point	°C	ASTM D7215*	57.7	58.5	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	41	54	---

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	170	172	---
5% Distillation Point	°C	ASTM D2887*	199	200	---
10% Distill Point	°C	ASTM D2887*	209	211	---
15% Distillation Point	°C	ASTM D2887*	217	218	---
20% Distill Point	°C	ASTM D2887*	224	226	---
30% Distill Point	°C	ASTM D2887*	238	240	---
40% Distill Point	°C	ASTM D2887*	251	252	---
50% Distill Point	°C	ASTM D2887*	263	264	---
60% Distill Point	°C	ASTM D2887*	276	277	---
70% Distill Point	°C	ASTM D2887*	289	290	---
80% Distill Point	°C	ASTM D2887*	303	304	---
85% Distillation Point	°C	ASTM D2887*	314	314	---
90% Distill Point	°C	ASTM D2887*	324	324	---
95% Distillation Point	°C	ASTM D2887*	341	341	---
Final Boiling Point	°C	ASTM D2887*	359	354	---

IGNITION QUALITY

	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	35	36	---
Cetane Index	ASTM D4737*	<40.0	47	48	---

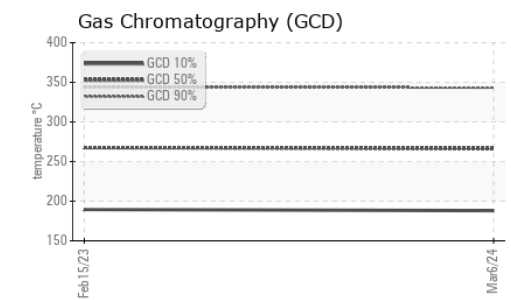
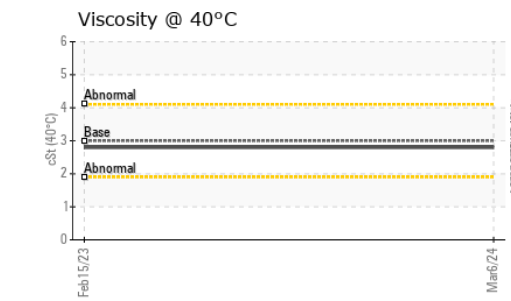
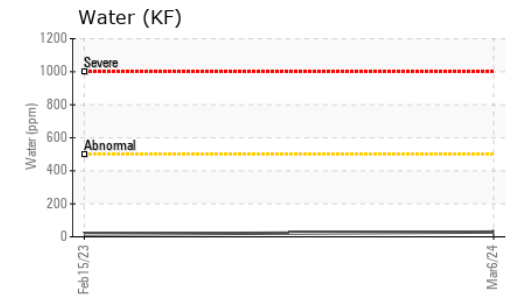
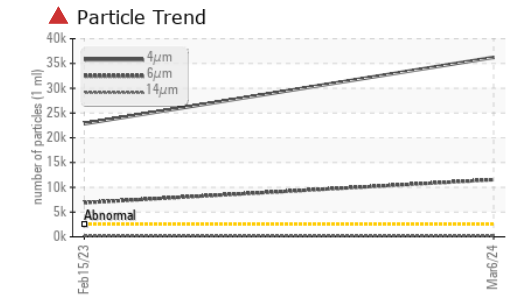
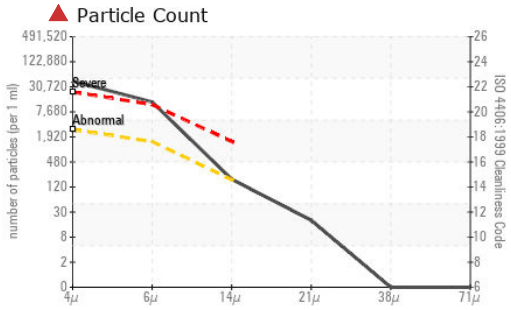
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	0	0	---
Sodium	ppm	ASTM D5185(m)	<1	0	---
Potassium	ppm	ASTM D5185(m)	0	0	---
Water	%	ASTM D6304*	0.003	0.002	---
ppm Water	ppm	ASTM D6304*	29	16.2	---

FLUID CLEANLINESS

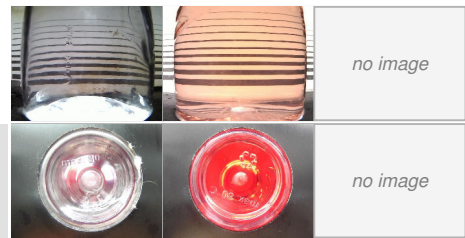
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 36236	▲ 22836	---
Particles >6µm	ASTM D7647	>1300	▲ 11531	▲ 6890	---
Particles >14µm	ASTM D7647	>160	● 163	● 178	---
Particles >21µm	ASTM D7647	>40	17	24	---
Particles >38µm	ASTM D7647	>10	0	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/17/14	▲ 22/21/15	▲ 22/20/15	---

FUEL REPORT

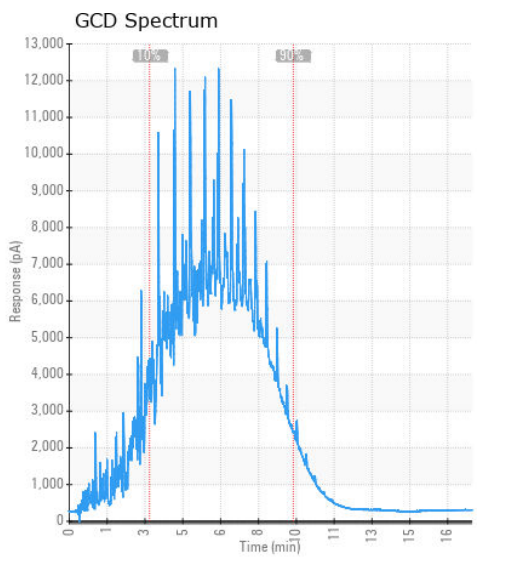
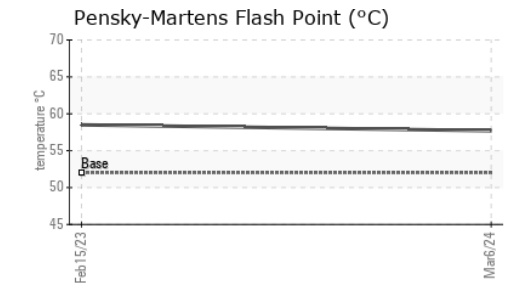
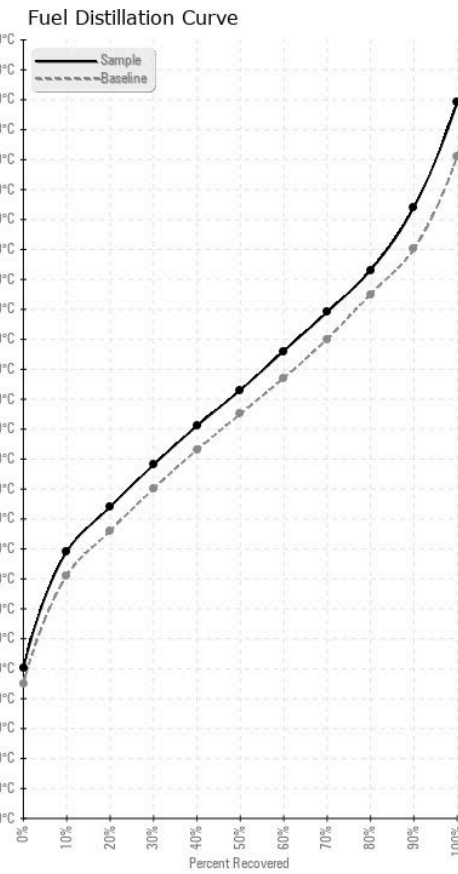


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	<1	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	1	<1
Magnesium	ppm	ASTM D5185(m)	<0.1	0	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	<1
Zinc	ppm	ASTM D5185(m)	<0.1	<1	<1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020926 **Received** : 18 Mar 2024
Lab Number : 02622884 **Tested** : 20 Mar 2024
Unique Number : 5748003 **Diagnosed** : 20 Mar 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

Wajax Power Systems
 10 Diesel Drive
 Toronto, ON
 CA M8W 2T8
 Contact: David Gilkes
 dgilkes@wajax.com
 T: (416)259-3281
 F: (416)251-6191

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.