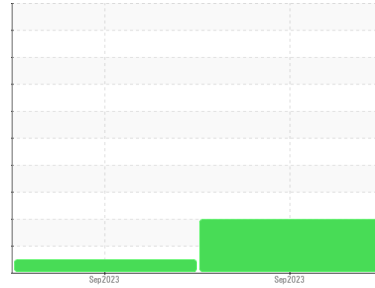


FUEL REPORT

Sample Rating Trend



WEAR



Area
THE STATE GROUP [174787]
Machine Id
526106203 GEN RED 901

Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

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

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

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

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			WA0019068	WA0019069	---
Sample Date	Client Info			11 Sep 2023	11 Sep 2023	---
Machine Age	yrs	Client Info		0	0	---
Sample Status				ABNORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.835	0.833	---
Fuel Color	text	Visual Screen*	Yellow	Pink	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.3	2.5	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	60.4	59.4	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	12	12	---

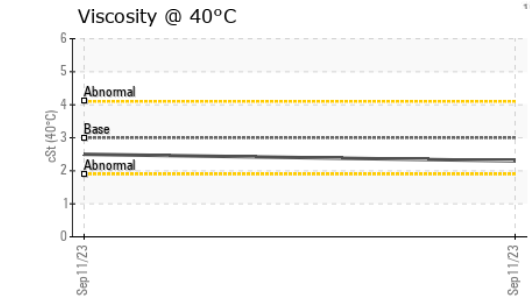
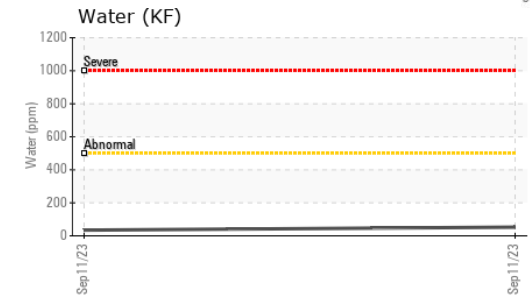
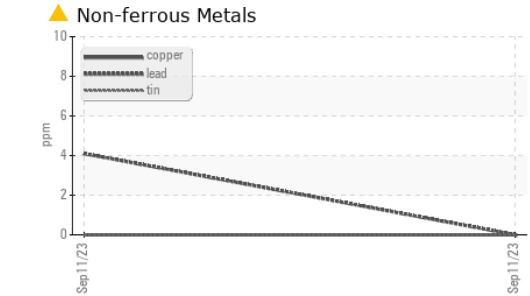
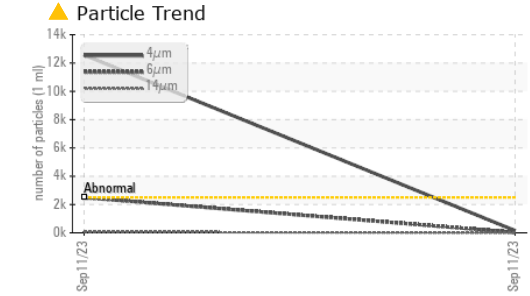
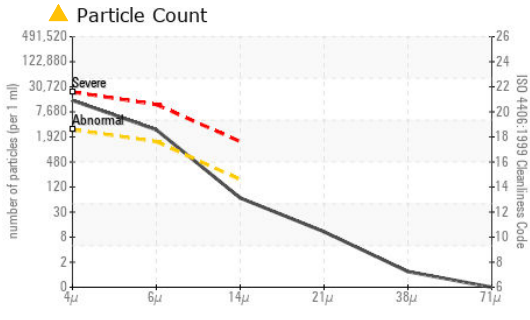
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	172	170	---
5% Distillation Point	°C	ASTM D2887*		190	189	---
10% Distill Point	°C	ASTM D2887*	201	198	197	---
15% Distillation Point	°C	ASTM D2887*		205	204	---
20% Distill Point	°C	ASTM D2887*	216	211	210	---
30% Distill Point	°C	ASTM D2887*	230	224	224	---
40% Distill Point	°C	ASTM D2887*	243	237	236	---
50% Distill Point	°C	ASTM D2887*	255	250	249	---
60% Distill Point	°C	ASTM D2887*	267	263	262	---
70% Distill Point	°C	ASTM D2887*	280	276	276	---
80% Distill Point	°C	ASTM D2887*	295	292	291	---
85% Distillation Point	°C	ASTM D2887*		303	302	---
90% Distill Point	°C	ASTM D2887*	310	314	313	---
95% Distillation Point	°C	ASTM D2887*		334	332	---
Final Boiling Point	°C	ASTM D2887*	341	369	365	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	37	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	<1	---
Water	%	ASTM D6304*	<0.05	0.005	0.003	---
ppm Water	ppm	ASTM D6304*	<500	52.5	34.5	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 12565	157	---
Particles >6µm		ASTM D7647	>1300	▲ 2490	30	---
Particles >14µm		ASTM D7647	>160	58	5	---
Particles >21µm		ASTM D7647	>40	9	1	---
Particles >38µm		ASTM D7647	>10	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/17/14	▲ 21/18/13	14/12/10	---

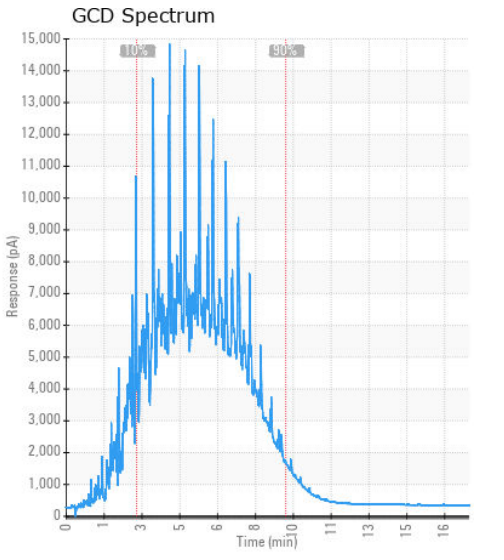
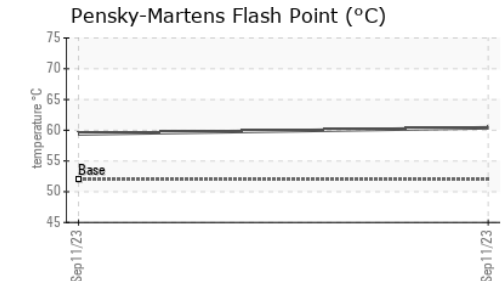
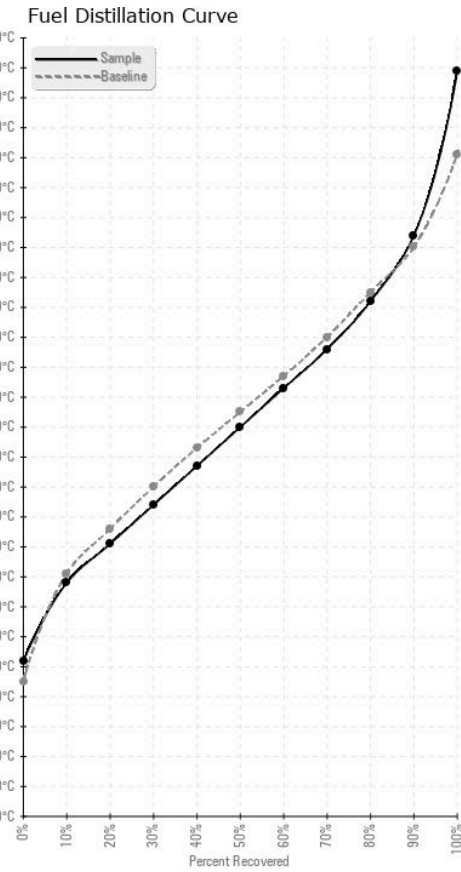
FUEL REPORT



HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	0	---
Lead	ppm	ASTM D5185(m)	<0.1	▲ 4	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	0	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	0	---
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						no image
Bottom						no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0019068 **Received** : 04 Oct 2023
Lab Number : 02586945 **Diagnosed** : 10 Oct 2023
Unique Number : 5656011 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

Wajax Power Systems
 10 Diesel Drive
 Toronto, ON
 CA M8W 2T8
 Contact: Komal Ramotar
 kramotar@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.