



# FUEL REPORT

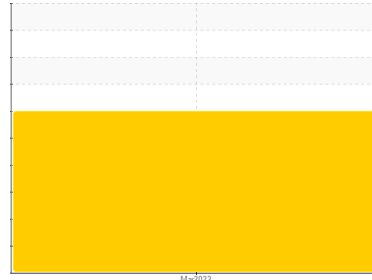
Sample Rating Trend

WEAR



Area  
**WAJAX**  
Machine Id  
**243 ARTISANT**

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



## DIAGNOSIS

### Recommendation

Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Corrosion

La concentration des métaux est élevée indiquant la présence de corrosion dans le système.

### Contaminants

La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La teneur en eau est négligeable. Il n'y a aucun indice de contamination dans le carburant diesel.

### Fuel Condition

Tous les essais en laboratoire indiquent que cet échantillon satisfait aux spécifications pour le carburant diesel à ultra-faible teneur de soufre No.2 (US EPA/CGSB-3.517-3 type B).

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GD0005911</b>	---	---
Sample Date	Client Info	<b>23 Mar 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>SEVERE</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839	<b>0.833</b>	---
Fuel Color	text Visual Screen*	Yllow	<b>Pink</b>	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	<b>2.3</b>	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	<b>56.7</b>	---

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185(m)	10	<b>5</b>	---

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D2887*	165	<b>167</b>	---
5% Distillation Point	°C ASTM D2887*		<b>188</b>	---
10% Distill Point	°C ASTM D2887*	201	<b>197</b>	---
15% Distillation Point	°C ASTM D2887*		<b>204</b>	---
20% Distill Point	°C ASTM D2887*	216	<b>211</b>	---
30% Distill Point	°C ASTM D2887*	230	<b>225</b>	---
40% Distill Point	°C ASTM D2887*	243	<b>238</b>	---
50% Distill Point	°C ASTM D2887*	255	<b>252</b>	---
60% Distill Point	°C ASTM D2887*	267	<b>266</b>	---
70% Distill Point	°C ASTM D2887*	280	<b>281</b>	---
80% Distill Point	°C ASTM D2887*	295	<b>298</b>	---
85% Distillation Point	°C ASTM D2887*		<b>309</b>	---
90% Distill Point	°C ASTM D2887*	310	<b>321</b>	---
95% Distillation Point	°C ASTM D2887*		<b>341</b>	---
Final Boiling Point	°C ASTM D2887*	341	<b>364</b>	---

## IGNITION QUALITY

method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	<b>38</b>	---
Cetane Index	ASTM D4737*	<40.0	<b>49</b>	---

## CONTAMINANTS

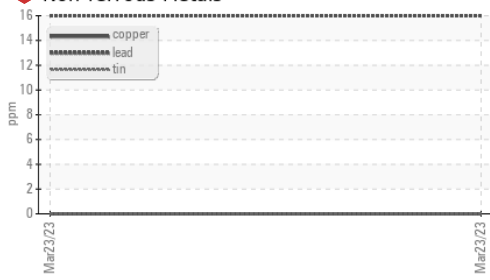
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	<1.0	<b>0</b>	---
Sodium	ppm ASTM D5185(m)	<0.1	<b>0</b>	---
Potassium	ppm ASTM D5185(m)	<0.1	<b>0</b>	---
Water	% ASTM D6304*	<0.05	<b>0.001</b>	---
ppm Water	ppm ASTM D6304*	<500	<b>10.7</b>	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>1298</b>	---
Particles >6µm	ASTM D7647	>640	<b>403</b>	---
Particles >14µm	ASTM D7647	>80	<b>23</b>	---
Particles >21µm	ASTM D7647	>20	<b>6</b>	---
Particles >38µm	ASTM D7647	>4	<b>0</b>	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>17/16/12</b>	---

# FUEL REPORT

## Non-ferrous Metals

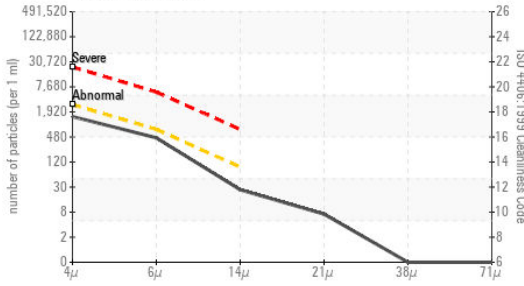


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---	---
Lead	ppm	ASTM D5185(m)	<0.1	16	---	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---	---
Zinc	ppm	ASTM D5185(m)	<0.1	<1	---	---

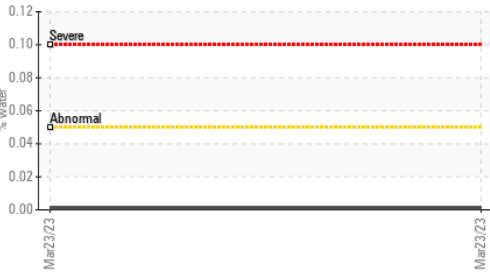
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	
Bottom				no image	no image	

## GRAPHS

### Particle Count



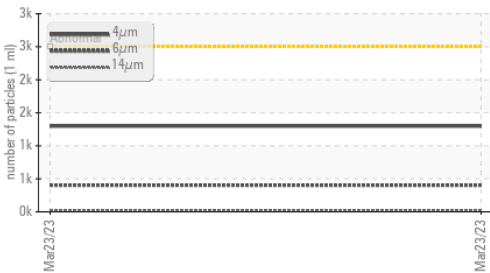
### Water



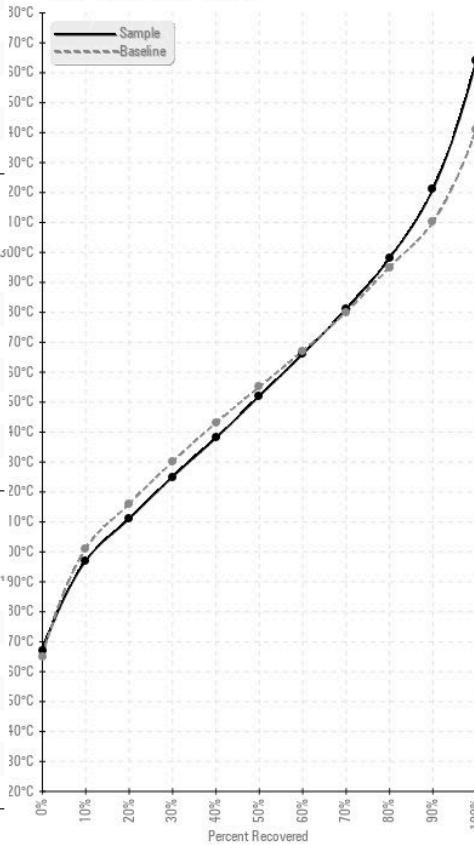
### Viscosity @ 40°C



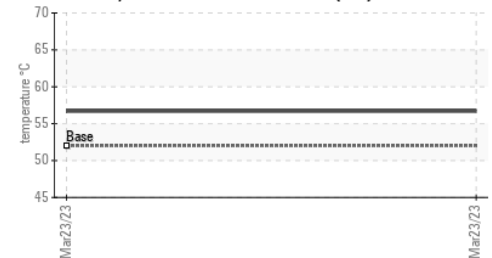
### Particle Trend



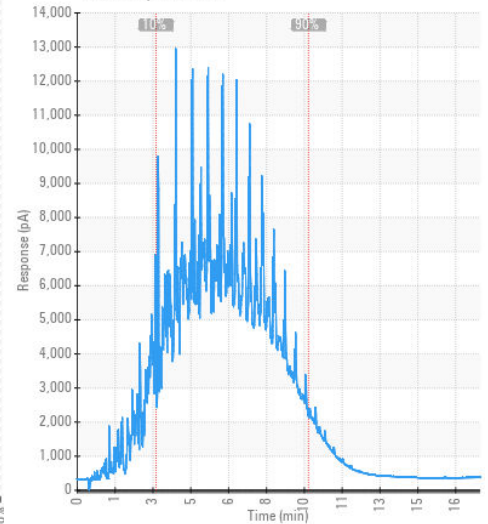
### Fuel Distillation Curve



### Pensky-Martens Flash Point (°C)



### GCD Spectrum



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GD0005911  
**Lab Number** : 02548222  
**Unique Number** : 5553232  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )

**Generatrice Drummond**  
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 T: (819)398-6811  
 F: (819)398-7022

*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.*