

# FUEL REPORT

Sample Rating Trend

ISO

Area  
**THE STATE GROUP [174787]**  
Machine Id  
**MTU 324002-1-2-0810 526105114 - GEN:BLUE**  
Component  
**Diesel Fuel**  
Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 LTR)**



## DIAGNOSIS

### Recommendation

We recommend that you drain the fuel from the component if this has not already been done. 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

The high metal levels indicate corrosion in the system.

### Contaminants

There is a light amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

### Fuel Condition

The fuel is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WA0019634</b>	---	---
Sample Date	Client Info	<b>11 Sep 2023</b>	---	---
Machine Age	yrs Client Info	<b>0</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2	
Specific Gravity	ASTM D1298*	0.839	<b>0.831</b>	---	---
Fuel Color	text Visual Screen*	Yellow	<b>Pink</b>	---	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	<b>2.2</b>	---	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	<b>59.7</b>	---	---

## SULFUR CONTENT

method	limit/base	current	history1	history2	
Sulfur	ppm ASTM D5185(m)	10	<b>14</b>	---	---

## DISTILLATION

method	limit/base	current	history1	history2	
Initial Boiling Point	°C ASTM D2887*	165	<b>171</b>	---	---
5% Distillation Point	°C ASTM D2887*		<b>188</b>	---	---
10% Distill Point	°C ASTM D2887*	201	<b>196</b>	---	---
15% Distillation Point	°C ASTM D2887*		<b>202</b>	---	---
20% Distill Point	°C ASTM D2887*	216	<b>208</b>	---	---
30% Distill Point	°C ASTM D2887*	230	<b>220</b>	---	---
40% Distill Point	°C ASTM D2887*	243	<b>232</b>	---	---
50% Distill Point	°C ASTM D2887*	255	<b>244</b>	---	---
60% Distill Point	°C ASTM D2887*	267	<b>258</b>	---	---
70% Distill Point	°C ASTM D2887*	280	<b>271</b>	---	---
80% Distill Point	°C ASTM D2887*	295	<b>287</b>	---	---
85% Distillation Point	°C ASTM D2887*		<b>299</b>	---	---
90% Distill Point	°C ASTM D2887*	310	<b>311</b>	---	---
95% Distillation Point	°C ASTM D2887*		<b>330</b>	---	---
Final Boiling Point	°C ASTM D2887*	341	<b>363</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>48</b>	---	---

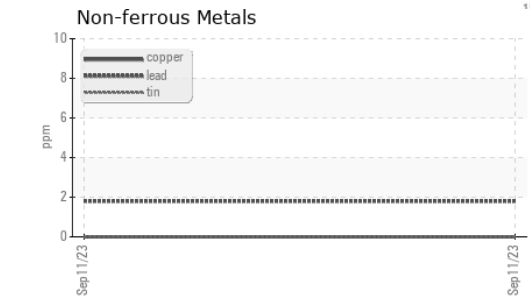
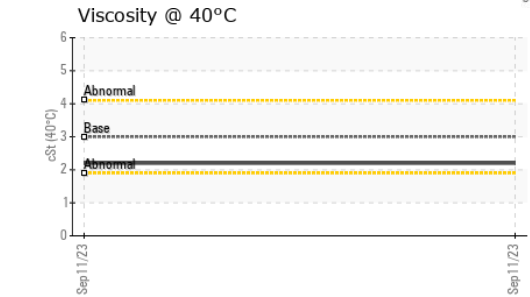
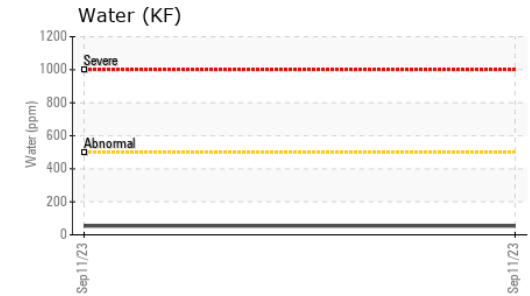
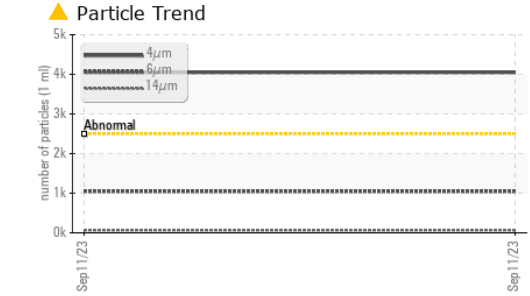
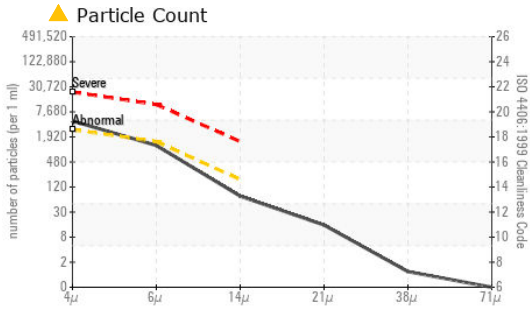
## CONTAMINANTS

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>&lt;1</b>	---	---
Water	% ASTM D6304*	<0.05	<b>0.005</b>	---	---
ppm Water	ppm ASTM D6304*	<500	<b>53.6</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	<b>▲ 4050</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>1050</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>64</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>13</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>18/17/14	<b>▲ 19/17/13</b>	---	---

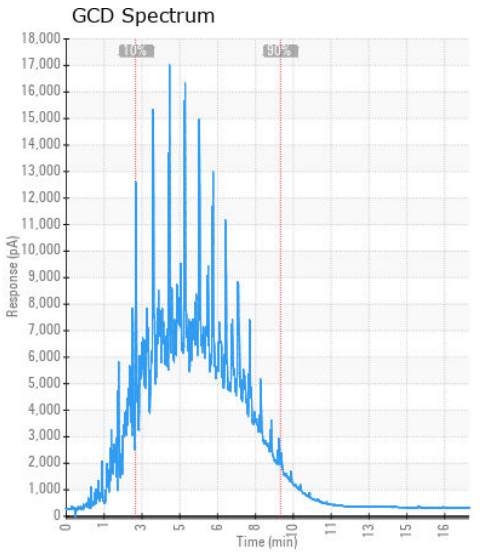
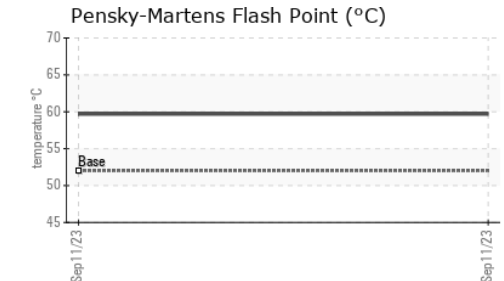
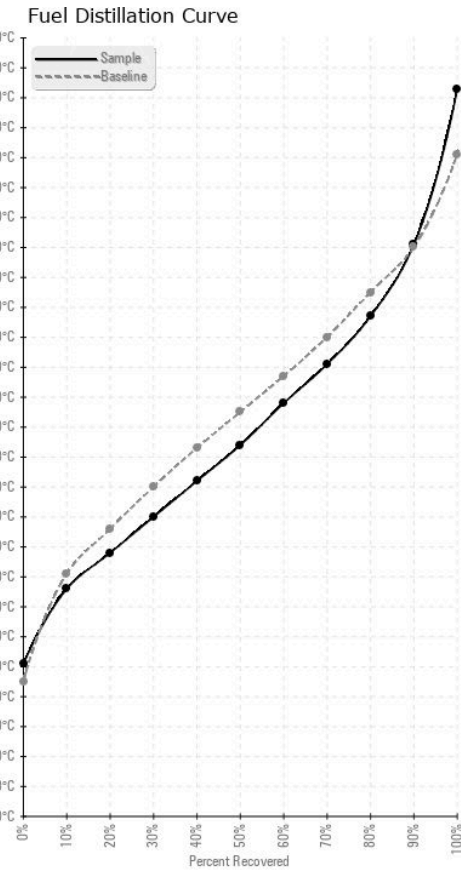
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	2	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0019634 **Received** : 04 Oct 2023  
**Lab Number** : 02586943 **Diagnosed** : 10 Oct 2023  
**Unique Number** : 5656009 **Diagnostician** : Kevin Marson  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )

**Wajax Power Systems**  
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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.