

# FUEL REPORT

Sample Rating Trend

ISO



Area  
**[450126260]**  
Machine Id  
**TB-80101**  
Component  
**Diesel Fuel**  
Fluid  
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)**



## 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. Resample at the next service interval to monitor.

### Corrosion

{not applicable}

### Contaminants

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

### 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).

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>PC</b>	---	---
Sample Date	Client Info	<b>05 Apr 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history 1	history 2
Specific Gravity	ASTM D1298*	0.839	<b>0.843</b>	---
Fuel Color	text Visual Screen*	Yllow	<b>Yllow</b>	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	<b>2.7</b>	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	<b>63.1</b>	---

## SULFUR CONTENT

method	limit/base	current	history 1	history 2
Sulfur	ppm ASTM D5185(m)	250	<b>43</b>	---

## DISTILLATION

method	limit/base	current	history 1	history 2
Initial Boiling Point	°C ASTM D2887*	165	<b>175</b>	---
5% Distillation Point	°C ASTM D2887*		<b>198</b>	---
10% Distill Point	°C ASTM D2887*	201	<b>209</b>	---
15% Distillation Point	°C ASTM D2887*		<b>217</b>	---
20% Distill Point	°C ASTM D2887*	216	<b>225</b>	---
30% Distill Point	°C ASTM D2887*	230	<b>239</b>	---
40% Distill Point	°C ASTM D2887*	243	<b>252</b>	---
50% Distill Point	°C ASTM D2887*	255	<b>265</b>	---
60% Distill Point	°C ASTM D2887*	267	<b>278</b>	---
70% Distill Point	°C ASTM D2887*	280	<b>292</b>	---
80% Distill Point	°C ASTM D2887*	295	<b>308</b>	---
85% Distillation Point	°C ASTM D2887*		<b>319</b>	---
90% Distill Point	°C ASTM D2887*	310	<b>331</b>	---
95% Distillation Point	°C ASTM D2887*		<b>350</b>	---
Final Boiling Point	°C ASTM D2887*	341	<b>377</b>	---

## IGNITION QUALITY

method	limit/base	current	history 1	history 2
API Gravity	ASTM D1298*	37.7	<b>36</b>	---
Cetane Index	ASTM D4737*	<40.0	<b>48</b>	---

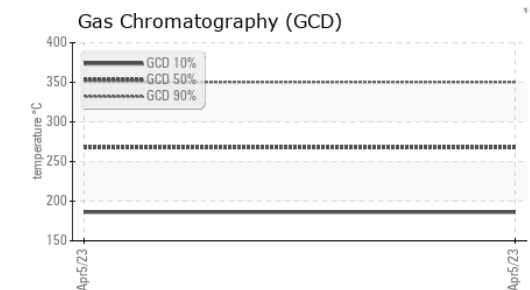
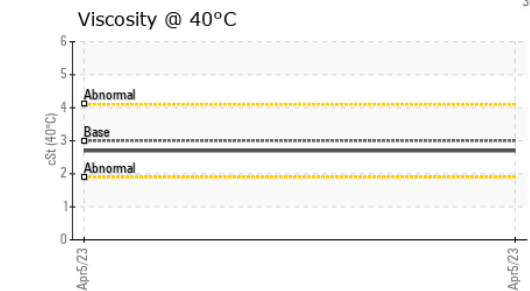
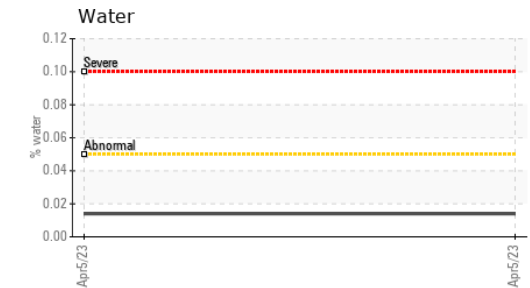
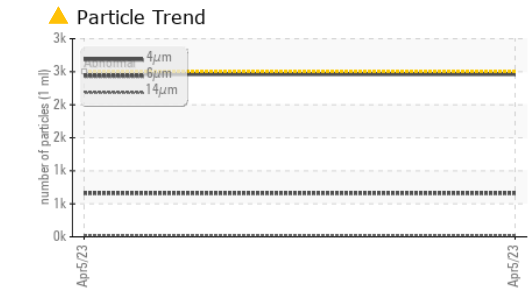
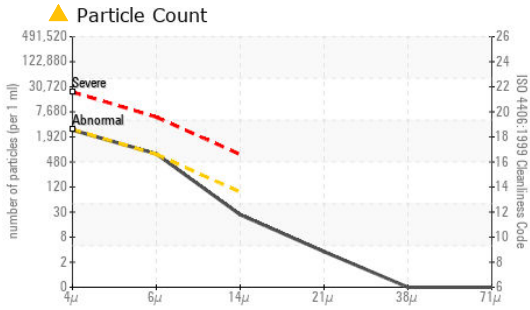
## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m)	<1.0	<b>0</b>	---
Sodium	ppm ASTM D5185(m)	<0.1	<b>&lt;1</b>	---
Potassium	ppm ASTM D5185(m)	<0.1	<b>0</b>	---
Water	% ASTM D6304*	<0.05	<b>0.014</b>	---
ppm Water	ppm ASTM D6304*	<500	<b>145.9</b>	---

## FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>2500	<b>2461</b>	---
Particles >6µm	ASTM D7647	>640	<b>660</b>	---
Particles >14µm	ASTM D7647	>80	<b>23</b>	---
Particles >21µm	ASTM D7647	>20	<b>3</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>18/17/12</b>	---

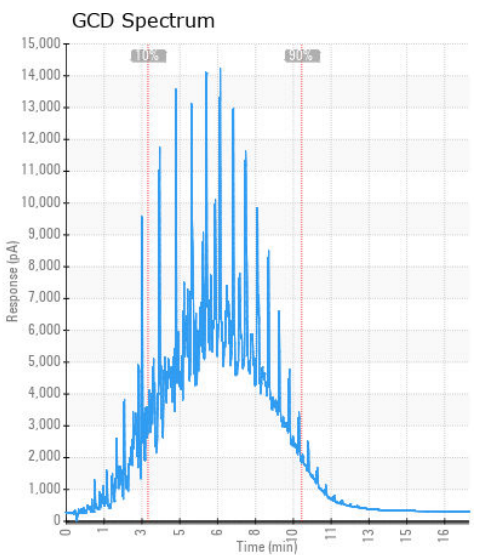
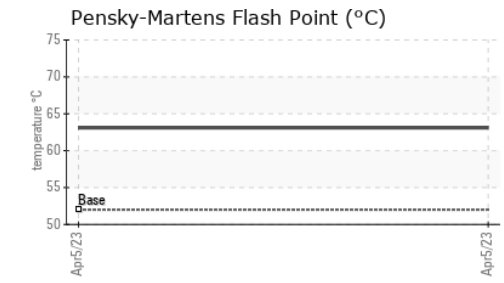
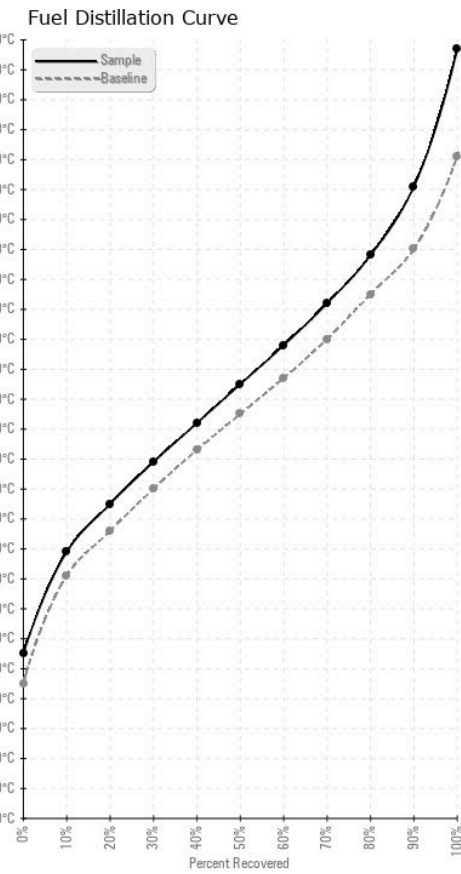
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HEAVY METALS		method	limit/base	current	history 1	history 2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---	---
Calcium	ppm	ASTM D5185(m)	<0.1	0	---	---
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	history 1	history 2
Color					no image	no image
Bottom					no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02568360  
**Unique Number** : 5605406  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )  
**Received** : 06 Jul 2023  
**Diagnosed** : 10 Jul 2023  
**Diagnostician** : Kevin Marson

*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.*

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