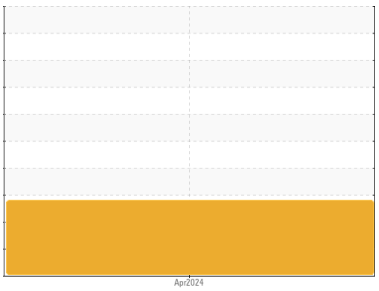
FUEL REPORT

Sample Rating Trend



OFF SPEC

Machine Id
BY73114
Component
Diesel Fuel
Fluid
No.1 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation
We recommend that you drain the fuel from the component if this has not already been done. We recommend an early resample to monitor this condition.

Contaminants
There is a light amount of silt (particulates < 14 microns in size) present in the fuel. Samples odor and low flash point indicate a dilution with a volatile substance. The water content is negligible. The odor of the sample indicates contamination with gasoline. NOTE: The fuel flashed at room temperature.

Fuel Condition
20% Distill Point results are abnormally low. Visc @ 40°C is abnormally low. 10% Distill Point and initial boiling point results are abnormal. The fuel is no longer serviceable due to the presence of contaminants. Laboratory tests indicate that this sample does NOT meet specifications for No.1 diesel fuel, low sulfur (CGSB-3.517-3 type A).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0886638**	---	---
Sample Date		Client Info		**09 Apr 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Sample Status				**ABNORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.825	**0.796**	---	---
Fuel Color	text	Visual Screen*	Clear	**Yllow**	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	1.8	▲ **1.2**	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	159	▲ **59**	---	---
5% Distillation Point	°C	ASTM D2887*		**86**	---	---
10% Distill Point	°C	ASTM D2887*	184	▲ **113**	---	---
15% Distillation Point	°C	ASTM D2887*		**132**	---	---
20% Distill Point	°C	ASTM D2887*	196	▲ **150**	---	---
30% Distill Point	°C	ASTM D2887*	205	**182**	---	---
40% Distill Point	°C	ASTM D2887*	216	**206**	---	---
50% Distill Point	°C	ASTM D2887*	227	**230**	---	---
60% Distill Point	°C	ASTM D2887*	238	**250**	---	---
70% Distill Point	°C	ASTM D2887*	251	**269**	---	---
80% Distill Point	°C	ASTM D2887*	264	**287**	---	---
85% Distillation Point	°C	ASTM D2887*		**298**	---	---
90% Distill Point	°C	ASTM D2887*	288	**309**	---	---
95% Distillation Point	°C	ASTM D2887*		**331**	---	---
Final Boiling Point	°C	ASTM D2887*	309	**349**	---	---

IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	40.1	**46**	---	---
Cetane Index	ASTM D4737*	<40.0	**56**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Water	%	ASTM D6304*	<0.05	**0.025**	---	---
ppm Water	ppm	ASTM D6304*	<500	**259**	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	● **4450**	---	---
Particles >6µm	ASTM D7647	>640	● **1047**	---	---
Particles >14µm	ASTM D7647	>80	**54**	---	---
Particles >21µm	ASTM D7647	>20	**9**	---	---
Particles >38µm	ASTM D7647	>4	**1**	---	---
Particles >71µm	ASTM D7647	>3	**0**	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	● **19/17/13**	---	---

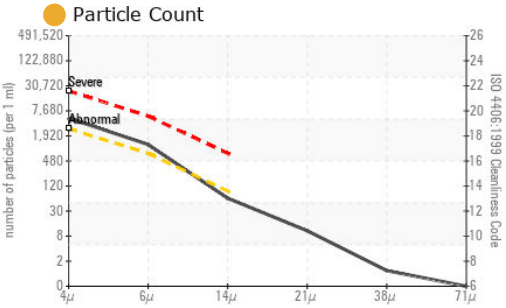
FUEL REPORT

Viscosity @ 40°C

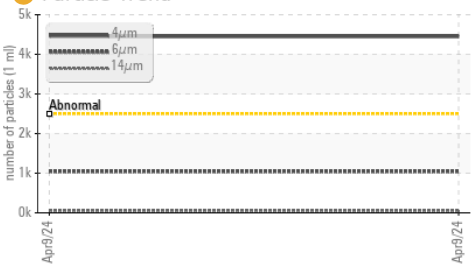
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

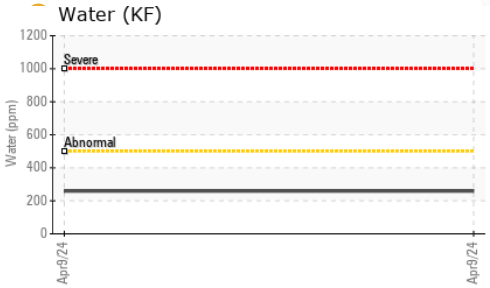
Particle Count



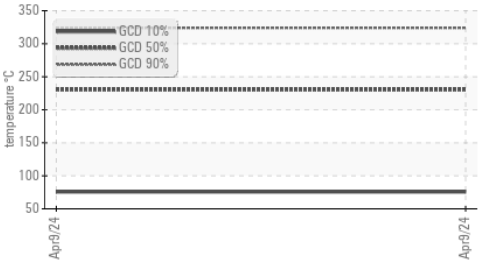
Particle Trend



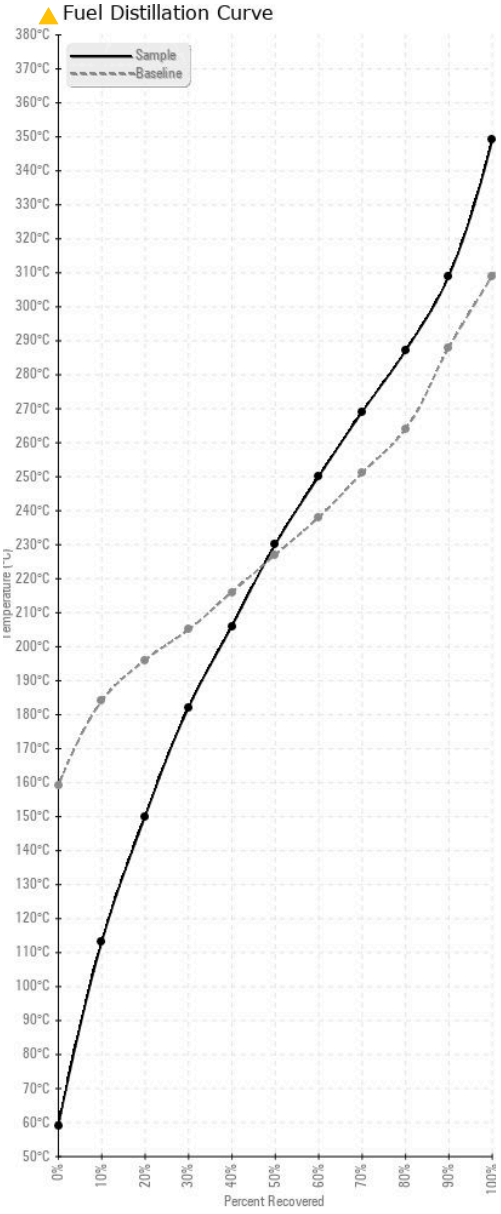
Water (KF)



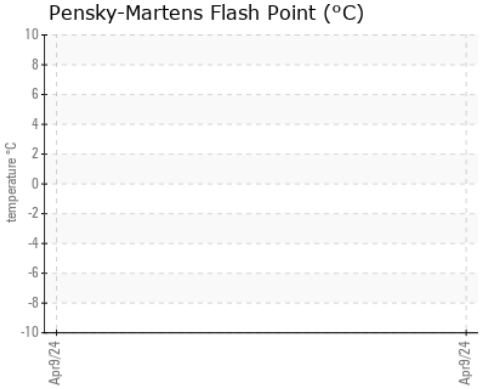
Gas Chromatography (GCD)



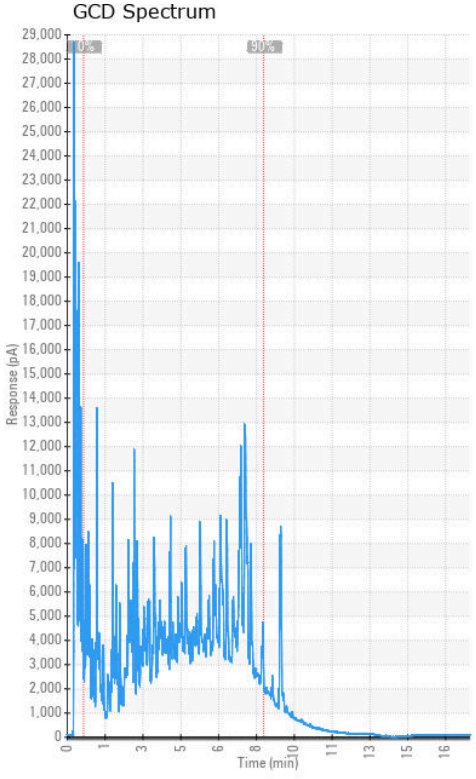
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886638 **Received** : 11 Apr 2024
Lab Number : 02628311 **Tested** : 17 Apr 2024
Unique Number : 5761443 **Diagnosed** : 17 Apr 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

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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