



FUEL REPORT

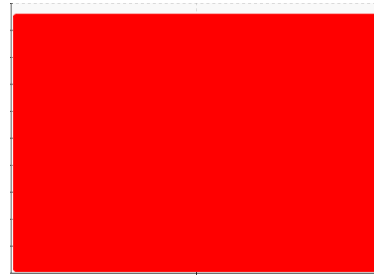
Sample Rating Trend

ISO

Area
HEAD TANK SOOKE
Machine Id
6019023

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- LTR)



DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Corrosion

(not applicable)

Contaminants

Particles >14µm are severely high. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are severely high. Particles >4µm are severely high... Particles >21µm are abnormally high. Excessive free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

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			WC0738278	---	---
Sample Date	Client Info			01 Feb 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.861	---	---
Fuel Color	text	Visual Screen*	Yellow	Pink	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	3.2	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	67.1	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	8	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	179	---	---
5% Distillation Point	°C	ASTM D2887*		214	---	---
10% Distill Point	°C	ASTM D2887*	201	227	---	---
15% Distillation Point	°C	ASTM D2887*		236	---	---
20% Distill Point	°C	ASTM D2887*	216	245	---	---
30% Distill Point	°C	ASTM D2887*	230	260	---	---
40% Distill Point	°C	ASTM D2887*	243	272	---	---
50% Distill Point	°C	ASTM D2887*	255	284	---	---
60% Distill Point	°C	ASTM D2887*	267	298	---	---
70% Distill Point	°C	ASTM D2887*	280	311	---	---
80% Distill Point	°C	ASTM D2887*	295	325	---	---
85% Distillation Point	°C	ASTM D2887*		334	---	---
90% Distill Point	°C	ASTM D2887*	310	344	---	---
95% Distillation Point	°C	ASTM D2887*		361	---	---
Final Boiling Point	°C	ASTM D2887*	341	382	---	---

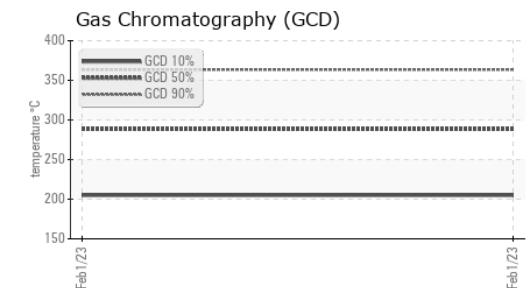
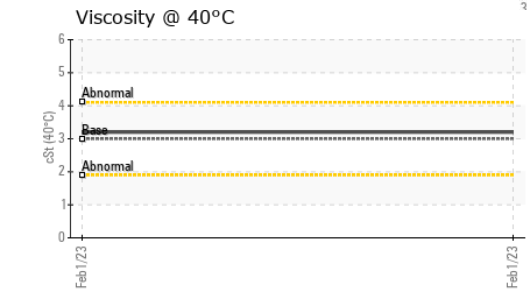
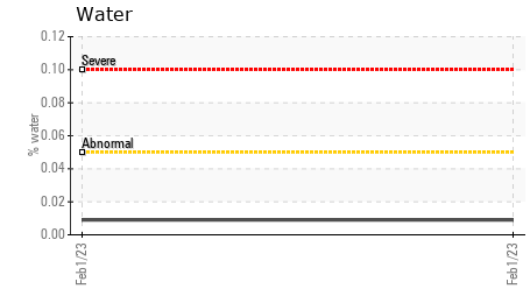
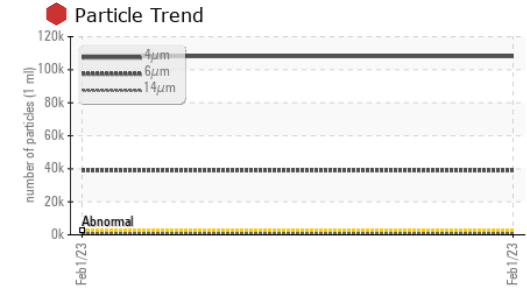
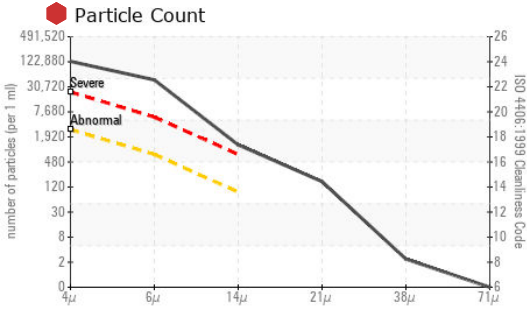
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	32	---	---
Cetane Index		ASTM D4737*	<40.0	46	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	---	---
Water	%	ASTM D6304*	<0.05	0.009	---	---
ppm Water	ppm	ASTM D6304*	<500	96.3	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	108076	---	---
Particles >6µm		ASTM D7647	>640	38955	---	---
Particles >14µm		ASTM D7647	>80	1085	---	---
Particles >21µm		ASTM D7647	>20	143	---	---
Particles >38µm		ASTM D7647	>4	2	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	24/22/17	---	---



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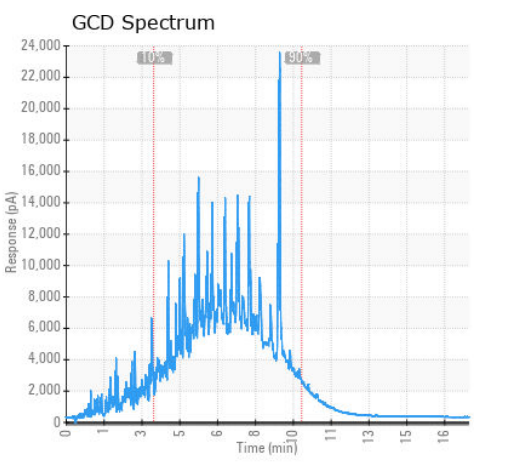
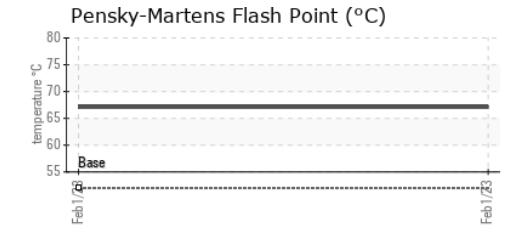
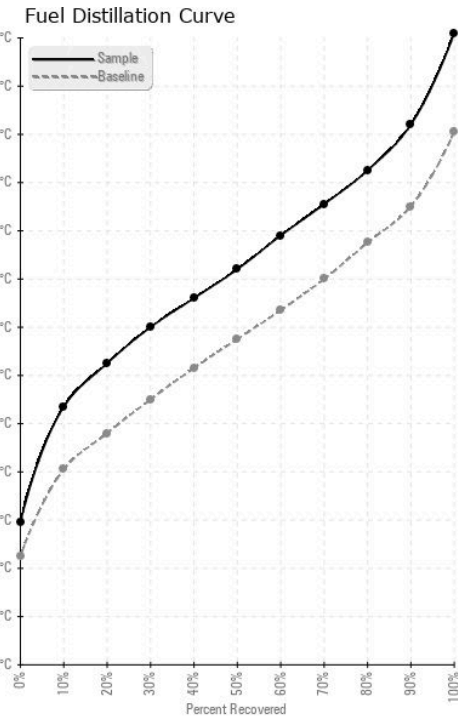


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml ASTM D6469*	>=100000	0	---	---
Yeast	CFU/ml ASTM D6469*	>=100000	0	---	---
Mold	Colonies ASTM D6469*	MODER	NONE	---	---

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	0	---	---
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	0	---	---
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. : WC0738278
Lab Number : 02538027
Unique Number : 5527027
Test Package : FUEL (Additional Tests: Bacteria, Bottom, CC Flash, GC-PercFuel, PrtCount)

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 Victoria, BC
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 T: (250)217-1310
 F:

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.