



FUEL REPORT

Sample Rating Trend

WEAR



Machine Id
TANK 2 WEST

Component
Diesel Fuel
Fluid

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



DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. 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. We advise that you filter this fluid before use. Resample in 30-45 days to monitor this situation.

Corrosion

Iron ppm levels are severe. The high metal levels indicate corrosion in the system.

Contaminants

There is a high amount of particulates (2 to 100 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. 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			WC0838834	---	---
Sample Date	Client Info			18 Aug 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.826	---	---
Fuel Color	text	Visual Screen*	Yllow	Red	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.1	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	50.9	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	6	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	159	---	---
5% Distillation Point	°C	ASTM D2887*		180	---	---
10% Distill Point	°C	ASTM D2887*	201	189	---	---
15% Distillation Point	°C	ASTM D2887*		197	---	---
20% Distill Point	°C	ASTM D2887*	216	204	---	---
30% Distill Point	°C	ASTM D2887*	230	219	---	---
40% Distill Point	°C	ASTM D2887*	243	233	---	---
50% Distill Point	°C	ASTM D2887*	255	247	---	---
60% Distill Point	°C	ASTM D2887*	267	262	---	---
70% Distill Point	°C	ASTM D2887*	280	277	---	---
80% Distill Point	°C	ASTM D2887*	295	293	---	---
85% Distillation Point	°C	ASTM D2887*		304	---	---
90% Distill Point	°C	ASTM D2887*	310	315	---	---
95% Distillation Point	°C	ASTM D2887*		334	---	---
Final Boiling Point	°C	ASTM D2887*	341	352	---	---

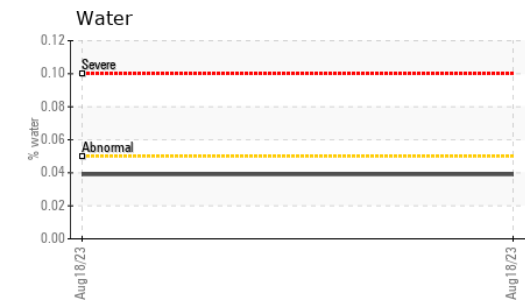
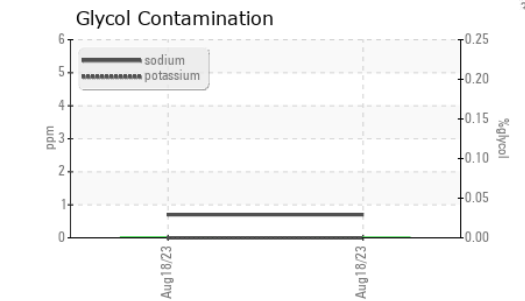
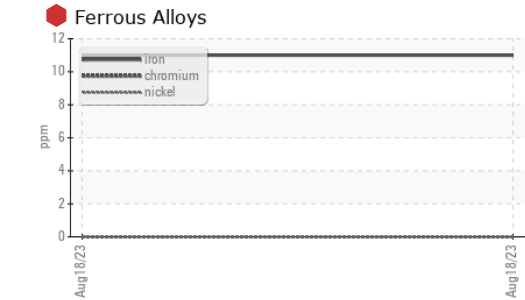
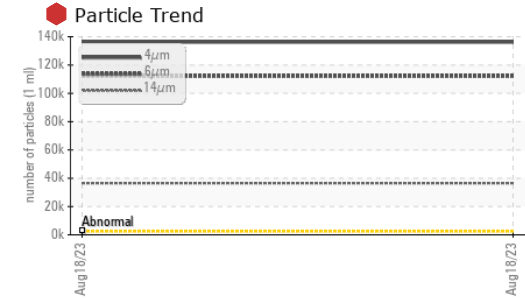
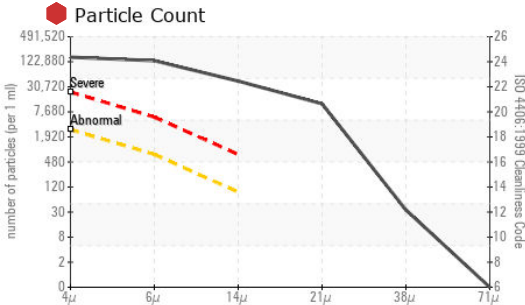
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	39	---	---
Cetane Index		ASTM D4737*	<40.0	50	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	---	---
Water	%	ASTM D6304*	<0.05	0.039	---	---
ppm Water	ppm	ASTM D6304*	<500	390	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	136221	---	---
Particles >6µm		ASTM D7647	>640	112205	---	---
Particles >14µm		ASTM D7647	>80	36488	---	---
Particles >21µm		ASTM D7647	>20	10407	---	---
Particles >38µm		ASTM D7647	>4	30	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	24/24/22	---	---



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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	---	---

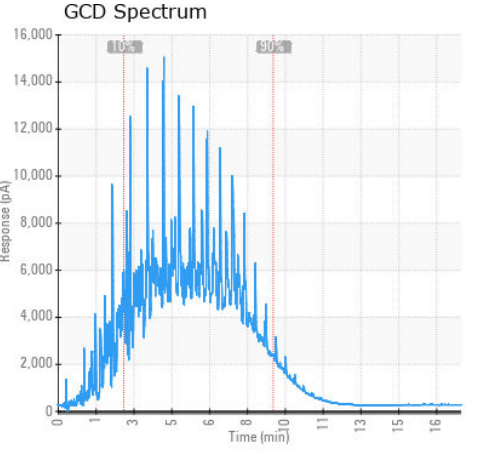
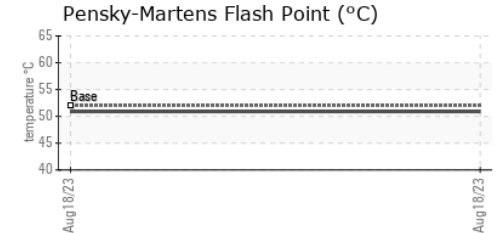
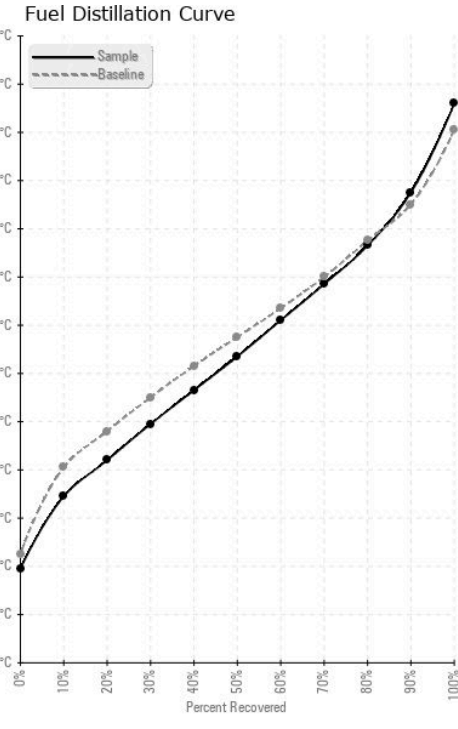
HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	<0.1	0	---	---
Nickel	ppm ASTM D5185(m)	<0.1	0	---	---
Lead	ppm ASTM D5185(m)	<0.1	<1	---	---
Vanadium	ppm ASTM D5185(m)	<0.1	0	---	---
Iron	ppm ASTM D5185(m)	<0.1	11	---	---
Calcium	ppm ASTM D5185(m)	<0.1	0	---	---
Magnesium	ppm ASTM D5185(m)	<0.1	0	---	---
Phosphorus	ppm ASTM D5185(m)	<0.1	0	---	---
Zinc	ppm ASTM D5185(m)	<0.1	0	---	---

SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0838834 **Received** : 25 Aug 2023
Lab Number : 02578565 **Diagnosed** : 31 Aug 2023
Unique Number : 5631625 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: BACTERIA, CC Flash, CENTRIFUGE(WARD), GC-PerFuel, GLYCOL, PQ, PrtCount)

HONEYWELL
 1929 OGILVIE RD
 GLOUCESTER, ON
 CA K1J 0B9
 Contact: Alain Guindon
 joseph.guindon@cse-cst.gc.ca
 T: (613)991-2659
 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.