

FUEL REPORT

Sample Rating Trend

ISO



Area
[6100246482]
Machine Id
47290255004196
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)



DIAGNOSIS

Recommendation
Check seals and/or filters for points of contaminant entry. 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. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation.

Corrosion
(not applicable)

Contaminants
There is a high amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

Fuel Condition
All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WA0020714	---	---
Sample Date	Client Info			11 Jan 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839		0.833	---	---
Fuel Color	text	Visual Screen*	Yellow	Green	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	51.7	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	12	---	---

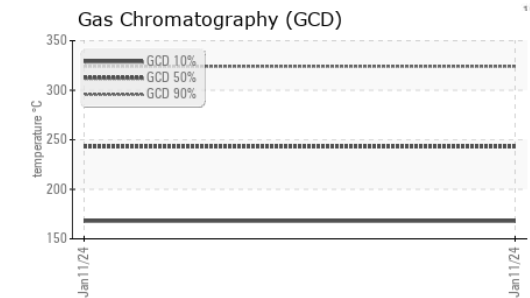
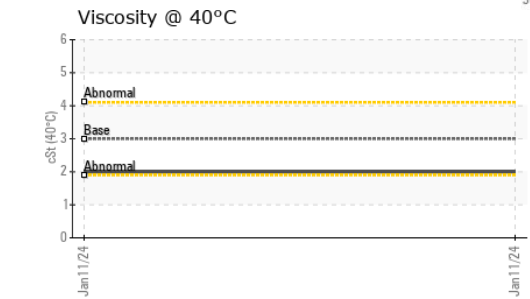
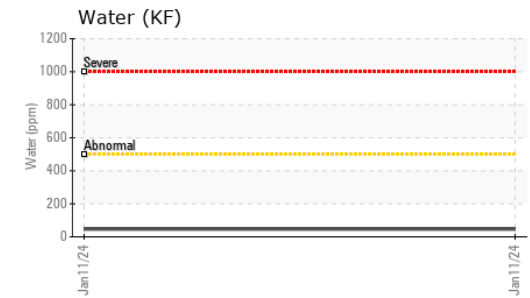
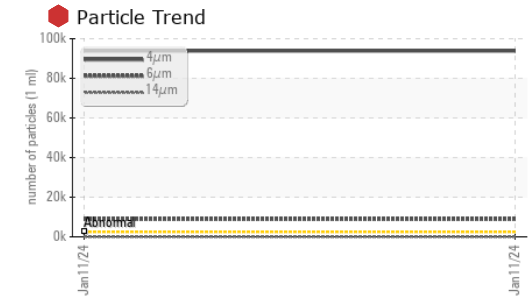
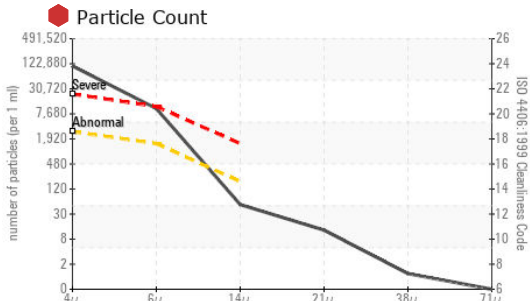
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	160	---	---
5% Distillation Point	°C	ASTM D2887*		181	---	---
10% Distill Point	°C	ASTM D2887*	201	189	---	---
15% Distillation Point	°C	ASTM D2887*		196	---	---
20% Distill Point	°C	ASTM D2887*	216	203	---	---
30% Distill Point	°C	ASTM D2887*	230	216	---	---
40% Distill Point	°C	ASTM D2887*	243	229	---	---
50% Distill Point	°C	ASTM D2887*	255	241	---	---
60% Distill Point	°C	ASTM D2887*	267	254	---	---
70% Distill Point	°C	ASTM D2887*	280	268	---	---
80% Distill Point	°C	ASTM D2887*	295	283	---	---
85% Distillation Point	°C	ASTM D2887*		295	---	---
90% Distill Point	°C	ASTM D2887*	310	306	---	---
95% Distillation Point	°C	ASTM D2887*		324	---	---
Final Boiling Point	°C	ASTM D2887*	341	356	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	38	---	---
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	<1	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	---	---
Water	%	ASTM D6304*	<0.05	0.004	---	---
ppm Water	ppm	ASTM D6304*	<500	47	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	93847	---	---
Particles >6µm		ASTM D7647	>1300	8958	---	---
Particles >14µm		ASTM D7647	>160	45	---	---
Particles >21µm		ASTM D7647	>40	11	---	---
Particles >38µm		ASTM D7647	>10	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/17/14	24/20/13	---	---

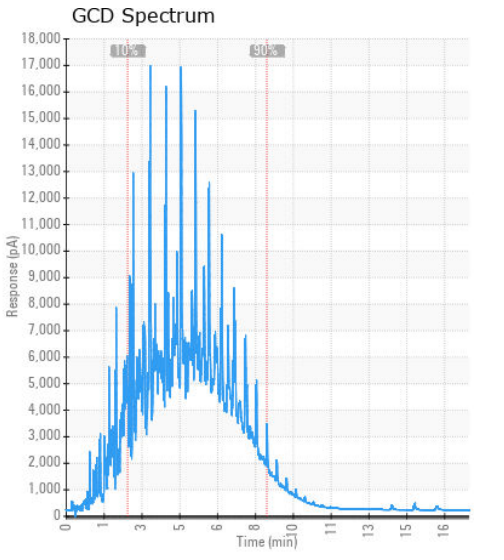
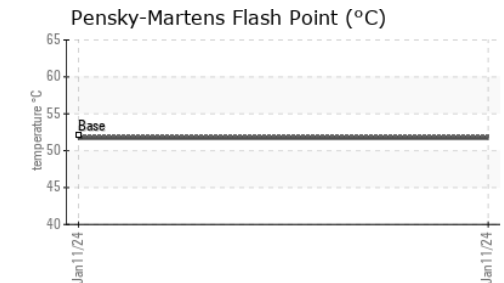
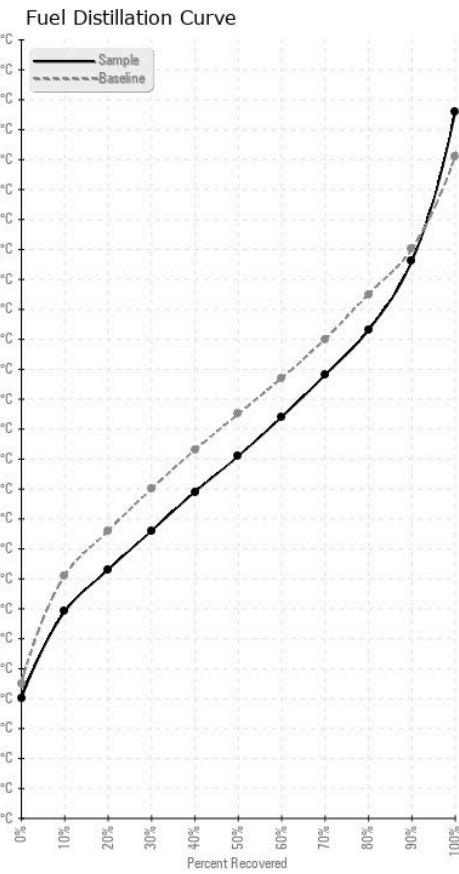
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm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

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. : WA0020714 **Received** : 16 Jan 2024
Lab Number : 02609145 **Diagnosed** : 22 Jan 2024
Unique Number : 5710231 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

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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.