

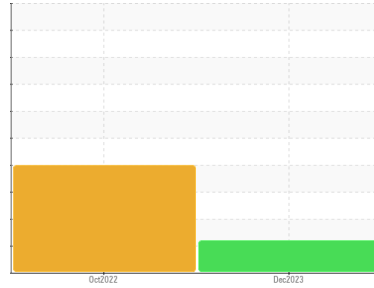


FUEL REPORT

Sample Rating Trend

ISO

Area
[101781]
 Machine Id
G1 (S/N 33199718)
 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	history1	history2
Sample Number	Client Info	CU0020772	CU0018961	---
Sample Date	Client Info	11 Dec 2023	12 Oct 2022	---
Machine Age	hrs	124	112	---
Sample Status		ATTENTION	SEVERE	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	0.829	0.829	---	
Fuel Color	text	Visual Screen*	Yellow	Red	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.3	2.2	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	56.2	52.7	---

SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	250	26	15	---

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	164	156	---
5% Distillation Point	°C	ASTM D2887*		182	176	---
10% Distill Point	°C	ASTM D2887*	201	192	186	---
15% Distillation Point	°C	ASTM D2887*		200	194	---
20% Distill Point	°C	ASTM D2887*	216	208	203	---
30% Distill Point	°C	ASTM D2887*	230	223	219	---
40% Distill Point	°C	ASTM D2887*	243	237	234	---
50% Distill Point	°C	ASTM D2887*	255	252	250	---
60% Distill Point	°C	ASTM D2887*	267	268	265	---
70% Distill Point	°C	ASTM D2887*	280	283	281	---
80% Distill Point	°C	ASTM D2887*	295	301	298	---
85% Distillation Point	°C	ASTM D2887*		313	309	---
90% Distill Point	°C	ASTM D2887*	310	325	321	---
95% Distillation Point	°C	ASTM D2887*		346	338	---
Final Boiling Point	°C	ASTM D2887*	341	374	348	---

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	39	39	---
Cetane Index	ASTM D4737*	<40.0	50	49	---

CONTAMINANTS

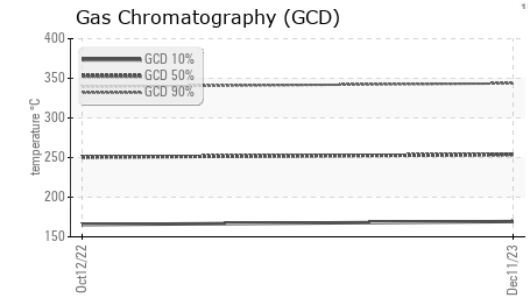
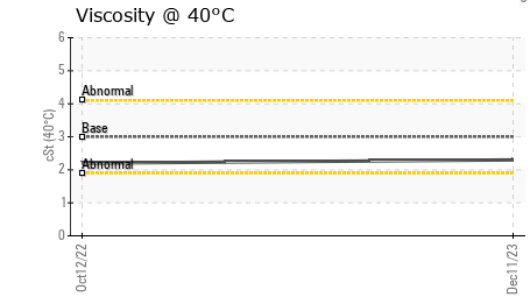
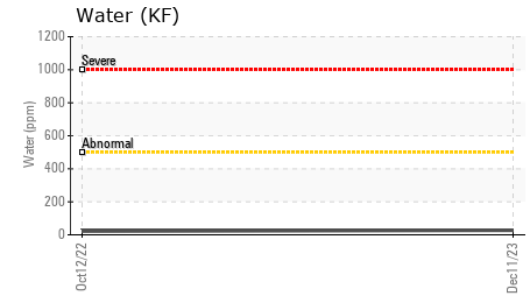
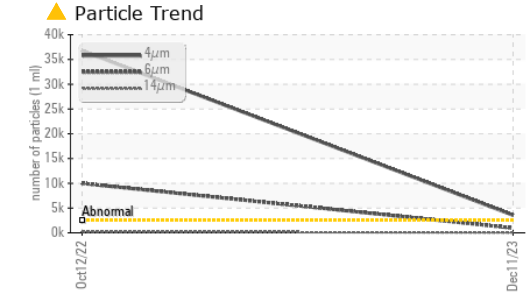
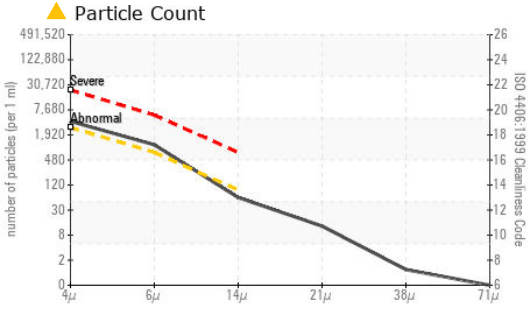
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	0	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	---
Water	%	ASTM D6304*	<0.05	0.003	0.002	---
ppm Water	ppm	ASTM D6304*	<500	27	22.2	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	3556	36782	---
Particles >6µm	ASTM D7647	>640	975	9984	---
Particles >14µm	ASTM D7647	>80	53	184	---
Particles >21µm	ASTM D7647	>20	11	18	---
Particles >38µm	ASTM D7647	>4	1	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/17/13	22/20/15	---



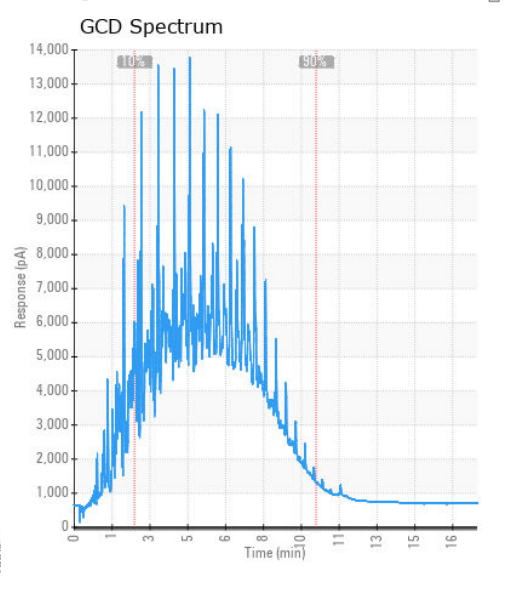
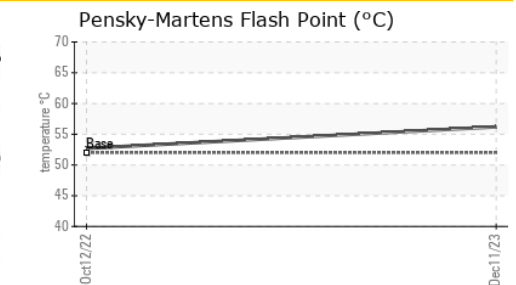
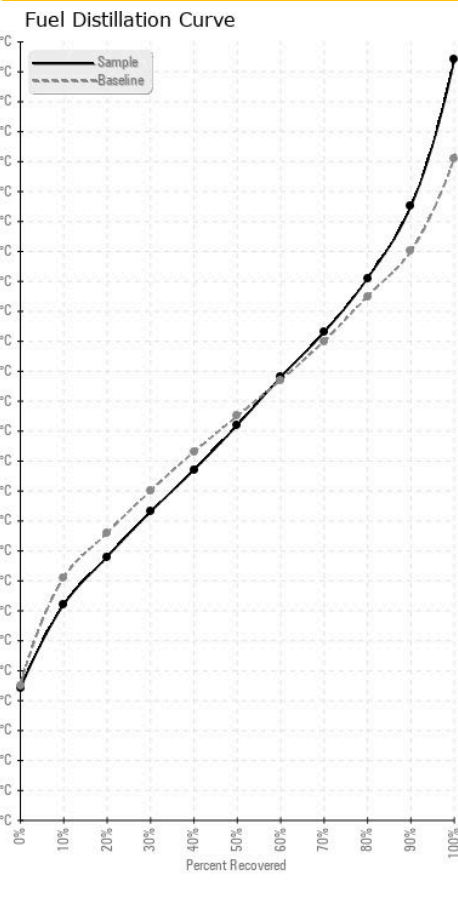
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	2	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	---
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
Bottom					no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0020772 **Received** : 12 Dec 2023
Lab Number : 02602693 **Diagnosed** : 14 Dec 2023
Unique Number : 5695778 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

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 OTTAWA, ON
 CA K1G 3W5
 Contact: Cindy Harrison
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 T: (613)736-1146
 F: x:

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.