

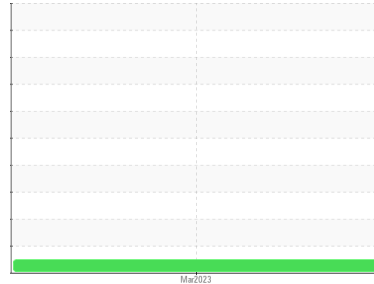
FUEL REPORT

Sample Rating Trend

NORMAL



Area
[450110686]
Machine Id
Emergency Generator - Diesel Fuel (S/N Sample Tag CD-84001)
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (HIGH-SULPHUR) (--- LTR)



DIAGNOSIS

Recommendation
Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

Corrosion
{not applicable}

Contaminants
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

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			PC0052226	---	---
Sample Date	Client Info			01 Mar 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.847	---	---
Fuel Color	text	Visual Screen*	Yellow	Yellow	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	3	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	64.6	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	500	171	---	---

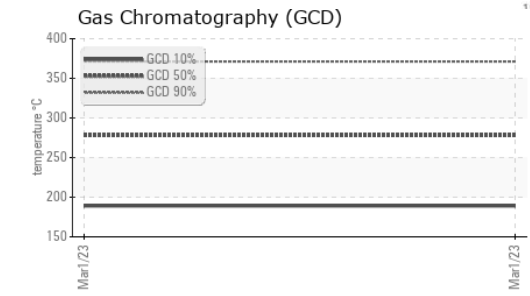
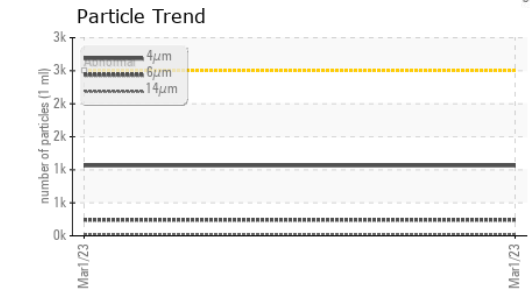
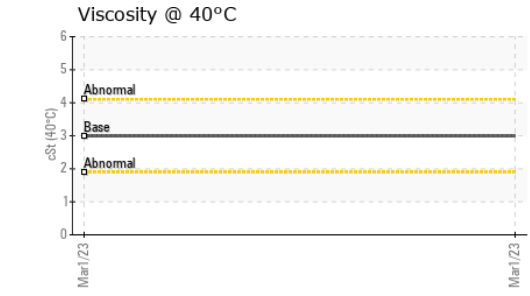
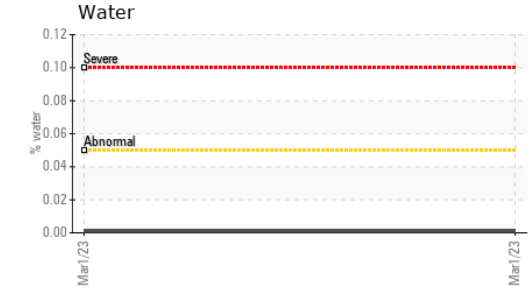
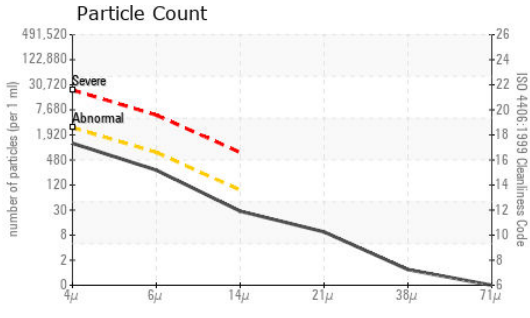
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	176	---	---
5% Distillation Point	°C	ASTM D2887*		201	---	---
10% Distill Point	°C	ASTM D2887*	201	212	---	---
15% Distillation Point	°C	ASTM D2887*		221	---	---
20% Distill Point	°C	ASTM D2887*	216	230	---	---
30% Distill Point	°C	ASTM D2887*	230	246	---	---
40% Distill Point	°C	ASTM D2887*	243	260	---	---
50% Distill Point	°C	ASTM D2887*	255	275	---	---
60% Distill Point	°C	ASTM D2887*	267	290	---	---
70% Distill Point	°C	ASTM D2887*	280	306	---	---
80% Distill Point	°C	ASTM D2887*	295	323	---	---
85% Distillation Point	°C	ASTM D2887*		337	---	---
90% Distill Point	°C	ASTM D2887*	310	351	---	---
95% Distillation Point	°C	ASTM D2887*		376	---	---
Final Boiling Point	°C	ASTM D2887*	341	396	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35	---	---
Cetane Index		ASTM D4737*	<40.0	49	---	---

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	0.001	---	---
ppm Water	ppm	ASTM D6304*	<500	11.5	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1063	---	---
Particles >6µm		ASTM D7647	>640	241	---	---
Particles >14µm		ASTM D7647	>80	25	---	---
Particles >21µm		ASTM D7647	>20	8	---	---
Particles >38µm		ASTM D7647	>4	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/12	---	---

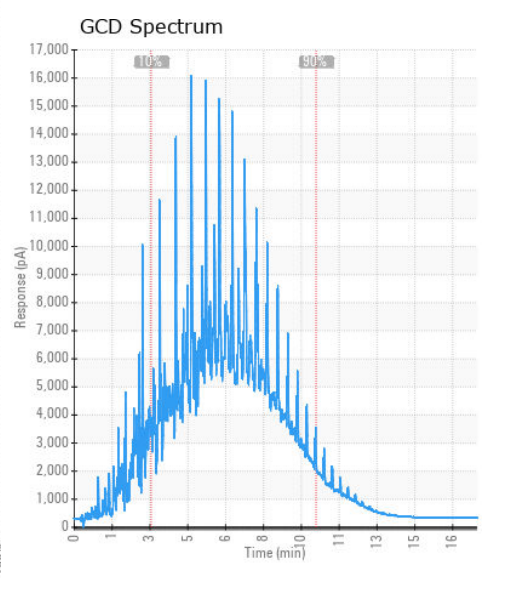
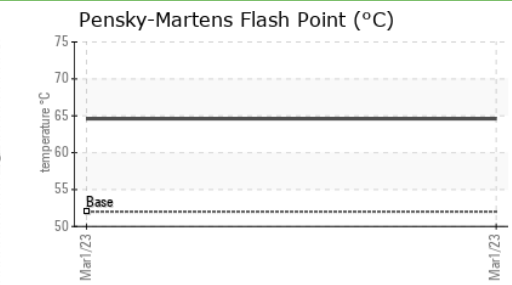
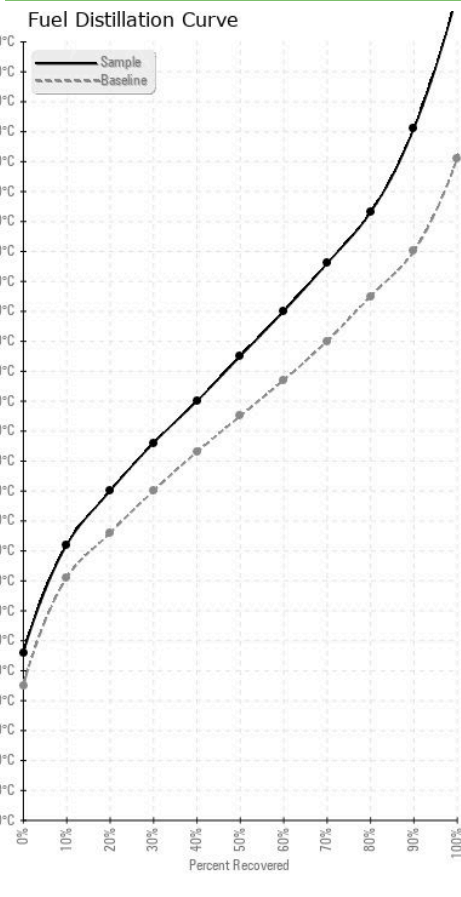
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---	---
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. : PC0052226 **Received** : 16 Mar 2023
Lab Number : 02545898 **Diagnosed** : 21 Mar 2023
Unique Number : 5550908 **Diagnostician** : Bill Quesnel
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.