



FUEL REPORT

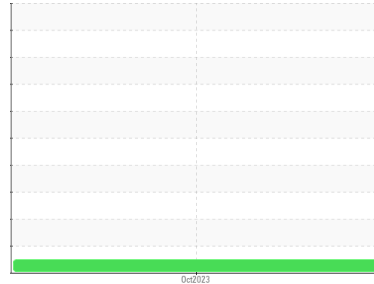
Sample Rating Trend

NORMAL



Area
[132360]
Machine Id
WINDSOR LIFT STN 7

Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)



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 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			CU0021790	---	---
Sample Date	Client Info			03 Oct 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.841	---	---
Fuel Color	text	Visual Screen*	Yllow	Pink	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.4	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	59.7	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	14	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	170	---	---
5% Distillation Point	°C	ASTM D2887*		190	---	---
10% Distill Point	°C	ASTM D2887*	201	200	---	---
15% Distillation Point	°C	ASTM D2887*		207	---	---
20% Distill Point	°C	ASTM D2887*	216	215	---	---
30% Distill Point	°C	ASTM D2887*	230	229	---	---
40% Distill Point	°C	ASTM D2887*	243	241	---	---
50% Distill Point	°C	ASTM D2887*	255	253	---	---
60% Distill Point	°C	ASTM D2887*	267	266	---	---
70% Distill Point	°C	ASTM D2887*	280	279	---	---
80% Distill Point	°C	ASTM D2887*	295	294	---	---
85% Distillation Point	°C	ASTM D2887*		305	---	---
90% Distill Point	°C	ASTM D2887*	310	317	---	---
95% Distillation Point	°C	ASTM D2887*		337	---	---
Final Boiling Point	°C	ASTM D2887*	341	371	---	---

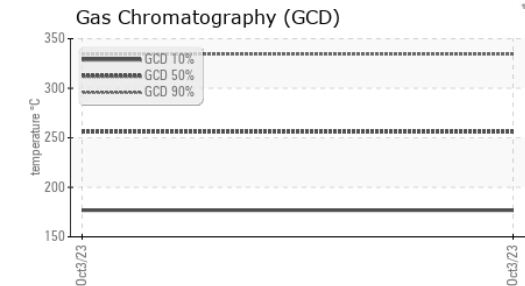
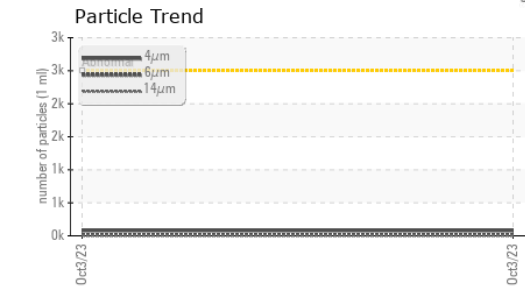
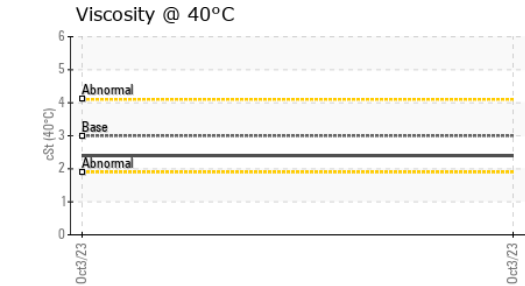
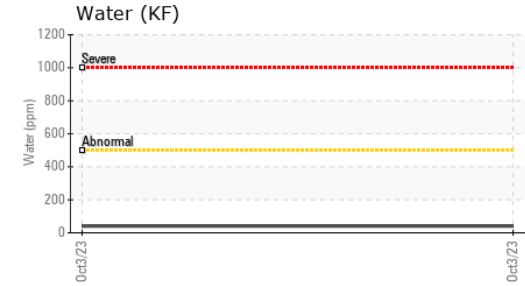
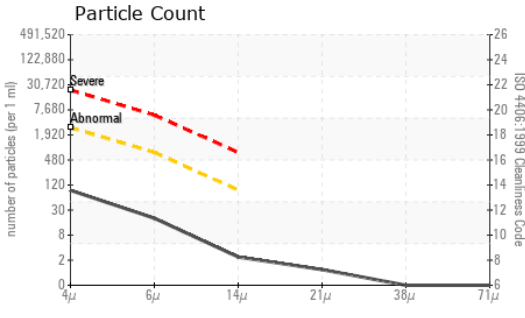
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	---	---
Cetane Index		ASTM D4737*	<40.0	46	---	---

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	<1	---	---
Water	%	ASTM D6304*	<0.05	0.004	---	---
ppm Water	ppm	ASTM D6304*	<500	40.5	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	79	---	---
Particles >6µm		ASTM D7647	>640	17	---	---
Particles >14µm		ASTM D7647	>80	2	---	---
Particles >21µm		ASTM D7647	>20	1	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	13/11/9	---	---



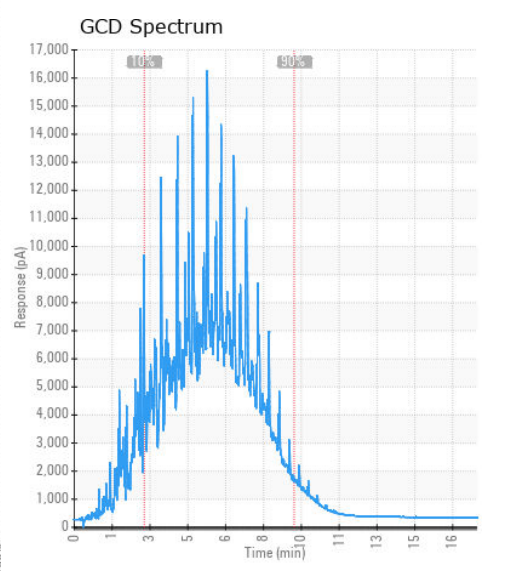
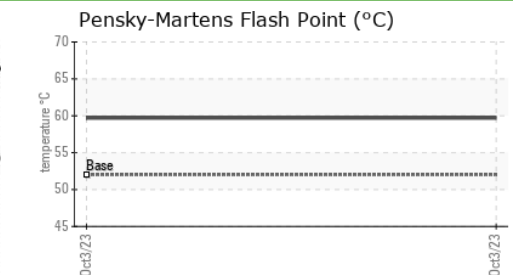
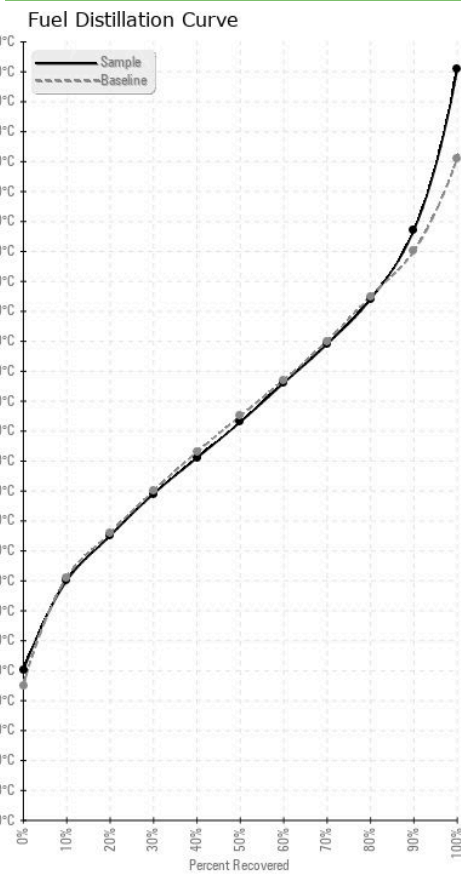
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	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. : CU0021790 **Received** : 04 Oct 2023
Lab Number : 02586951 **Diagnosed** : 11 Oct 2023
Unique Number : 5656017 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PRTCOUNT)

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 50 SIMMONDS DRIVE
 DARTMOUTH, NS
 CA B3B 1R3
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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.