

FUEL REPORT

Sample Rating Trend

ISO



Area
THE STATE GROUP [174787]
Machine Id
526106210 GEN RED 902

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. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible. The system cleanliness is above 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). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WA0019628	---	---
Sample Date	Client Info	11 Sep 2023	---	---
Machine Age	yrs Client Info	0	---	---
Sample Status		ABNORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839	0.833	---
Fuel Color	text Visual Screen*	Yllow	Pink	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	2.2	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	58.7	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185(m)	10	11	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D2887*	165	168	---
5% Distillation Point	°C ASTM D2887*		186	---
10% Distill Point	°C ASTM D2887*	201	195	---
15% Distillation Point	°C ASTM D2887*		201	---
20% Distill Point	°C ASTM D2887*	216	208	---
30% Distill Point	°C ASTM D2887*	230	221	---
40% Distill Point	°C ASTM D2887*	243	233	---
50% Distill Point	°C ASTM D2887*	255	245	---
60% Distill Point	°C ASTM D2887*	267	258	---
70% Distill Point	°C ASTM D2887*	280	272	---
80% Distill Point	°C ASTM D2887*	295	287	---
85% Distillation Point	°C ASTM D2887*		298	---
90% Distill Point	°C ASTM D2887*	310	310	---
95% Distillation Point	°C ASTM D2887*		330	---
Final Boiling Point	°C ASTM D2887*	341	363	---

IGNITION QUALITY

method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	38	---
Cetane Index	ASTM D4737*	<40.0	47	---

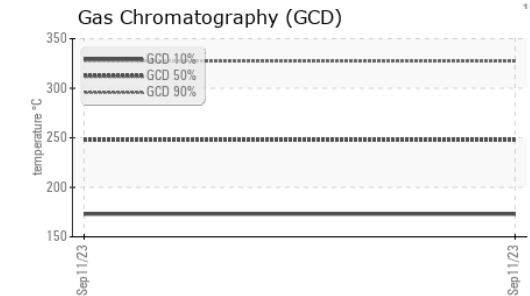
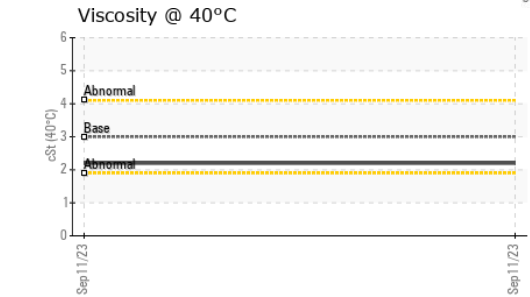
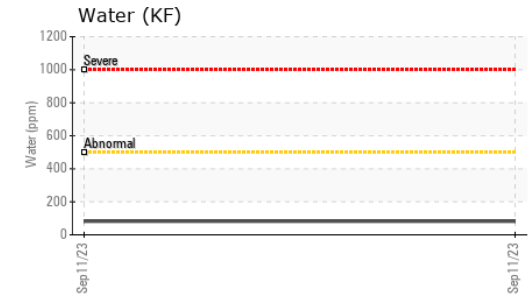
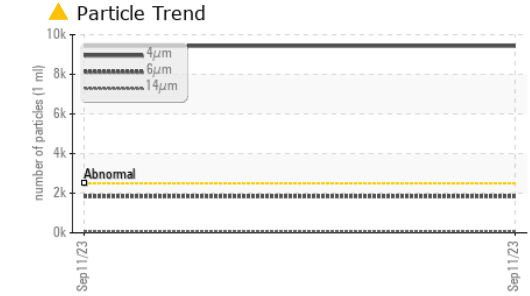
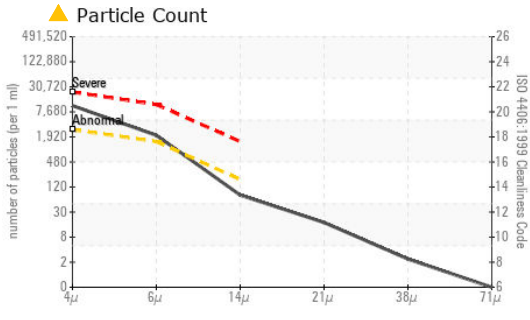
CONTAMINANTS

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	0.008	---
ppm Water	ppm ASTM D6304*	<500	82.2	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 9431	---
Particles >6µm	ASTM D7647	>1300	▲ 1837	---
Particles >14µm	ASTM D7647	>160	68	---
Particles >21µm	ASTM D7647	>40	15	---
Particles >38µm	ASTM D7647	>10	2	---
Particles >71µm	ASTM D7647	>3	0	---
Oil Cleanliness	ISO 4406 (c)	>18/17/14	▲ 20/18/13	---

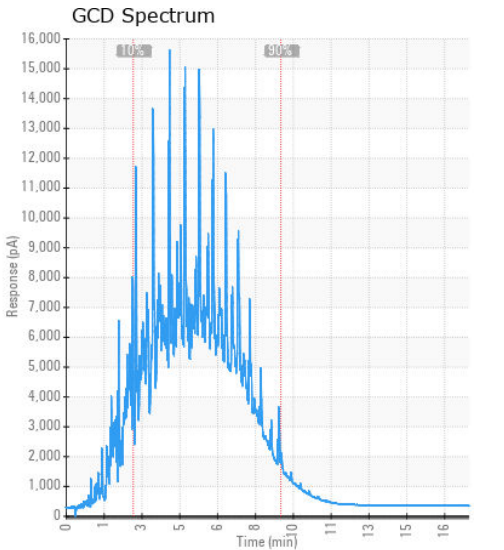
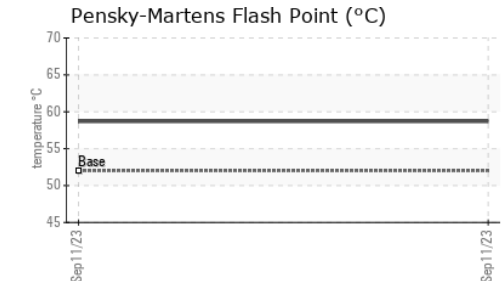
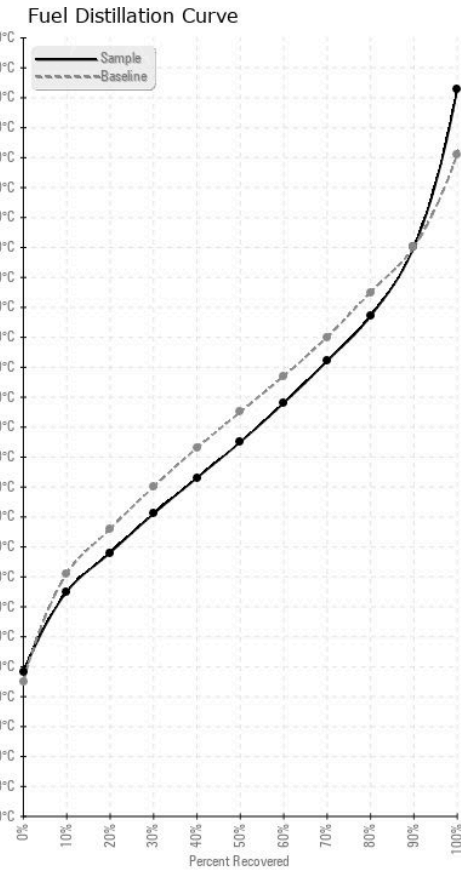
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	0	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---
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. : WA0019628
Lab Number : 02586942
Unique Number : 5656008
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.