



FUEL REPORT

Sample Rating Trend



ISO



Area
SIMCOE COUNTY [151562]
 Machine Id
79383645

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. The filter change at the time of sampling has been noted. 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.

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			CU0022405	---	---
Sample Date	Client Info			05 Dec 2023	---	---
Machine Age	hrs	Client Info		79	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.844	---	---
Fuel Color	text	Visual Screen*	Yllow	Yllow	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	54.8	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	9	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	165	---	---
5% Distillation Point	°C	ASTM D2887*		192	---	---
10% Distill Point	°C	ASTM D2887*	201	203	---	---
15% Distillation Point	°C	ASTM D2887*		212	---	---
20% Distill Point	°C	ASTM D2887*	216	220	---	---
30% Distill Point	°C	ASTM D2887*	230	235	---	---
40% Distill Point	°C	ASTM D2887*	243	249	---	---
50% Distill Point	°C	ASTM D2887*	255	262	---	---
60% Distill Point	°C	ASTM D2887*	267	276	---	---
70% Distill Point	°C	ASTM D2887*	280	290	---	---
80% Distill Point	°C	ASTM D2887*	295	306	---	---
85% Distillation Point	°C	ASTM D2887*		318	---	---
90% Distill Point	°C	ASTM D2887*	310	330	---	---
95% Distillation Point	°C	ASTM D2887*		352	---	---
Final Boiling Point	°C	ASTM D2887*	341	377	---	---

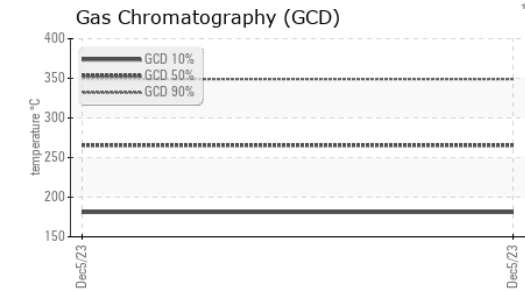
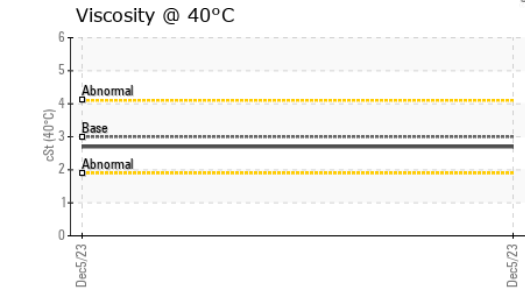
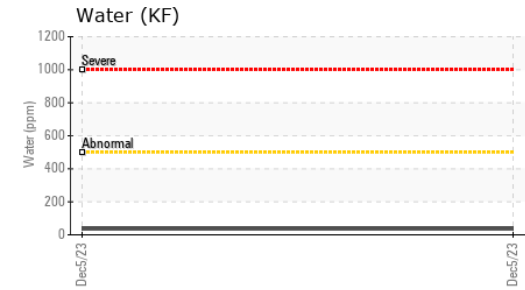
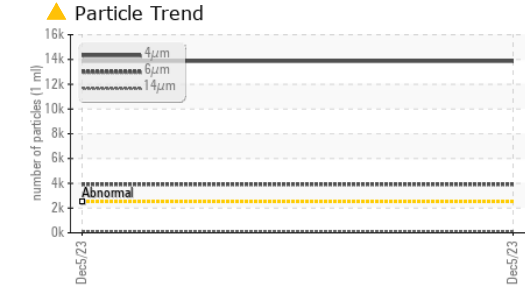
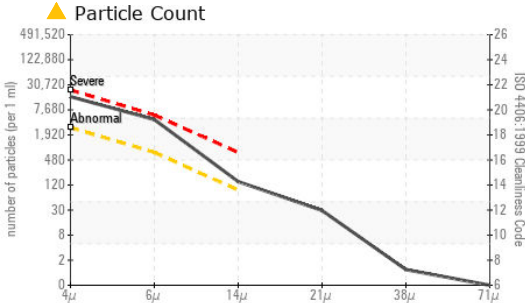
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	---	---
Cetane Index		ASTM D4737*	<40.0	47	---	---

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	0.003	---	---
ppm Water	ppm	ASTM D6304*	<500	36	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 13864	---	---
Particles >6µm		ASTM D7647	>640	▲ 3918	---	---
Particles >14µm		ASTM D7647	>80	▲ 128	---	---
Particles >21µm		ASTM D7647	>20	26	---	---
Particles >38µm		ASTM D7647	>4	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 21/19/14	---	---



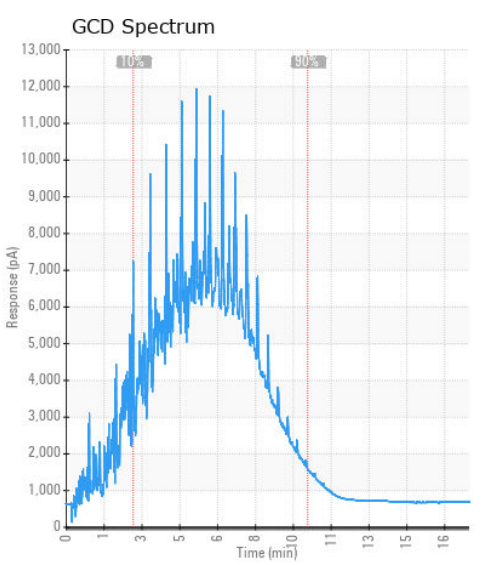
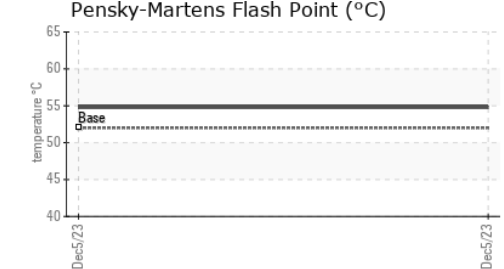
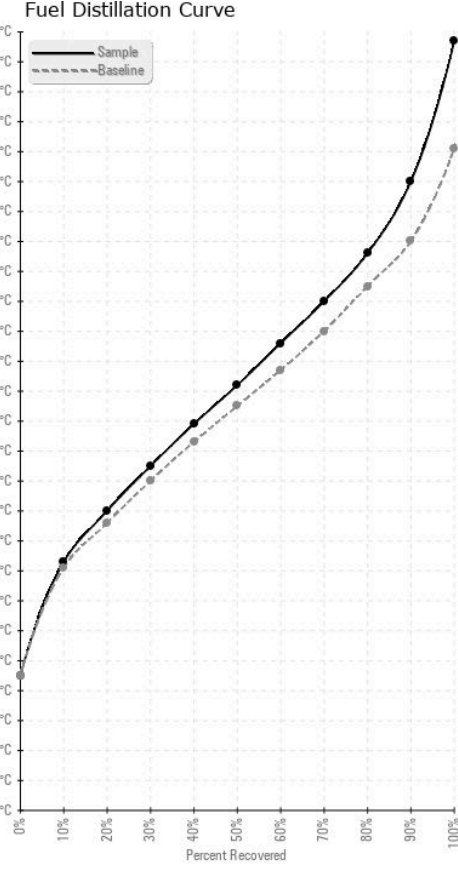
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
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 CUMMINS CANADA ULC - GENERATOR DIVISION
Sample No. : CU0022405 **Received** : 11 Dec 2023 7175 PACIFIC CIRCLE
Lab Number : 02602458 **Diagnosed** : 13 Dec 2023 MISSISSAUGA, ON
Unique Number : 5695543 **Diagnostician** : Kevin Marson CA L5T 2A5
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)
 Contact: Elisia Johnson
 elisia.johnson@cummins.com
 T: (905)795-0050
 F: (905)795-9252

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.