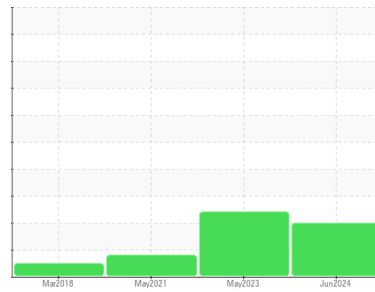




FUEL REPORT

Sample Rating Trend



ISO



Area
WALMART 7295 WESTCREDIT

Machine Id
79961911

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 perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. 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			CU0022901	CU0020938	CU0017479
Sample Date	Client Info			09 Jun 2024	24 May 2023	10 May 2021
Machine Age	hrs	Client Info		0	458	0
Sample Status				ABNORMAL	SEVERE	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.843	0.842	0.834
Fuel Color	text	Visual Screen*	Yellow	Pink	Brown	Pink
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6	2.6	2.3
Pensky-Martens Flash Point	°C	ASTM D7215*	52	57.6	58.7	59.8

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	8	6	6

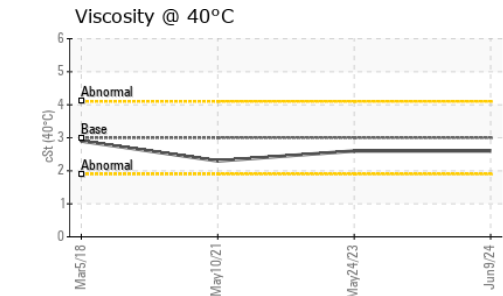
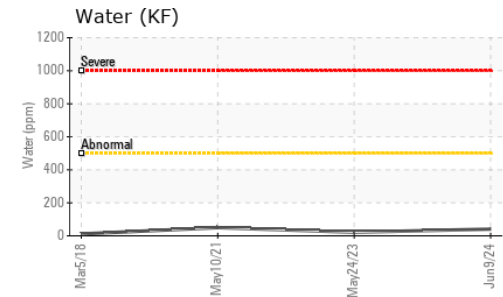
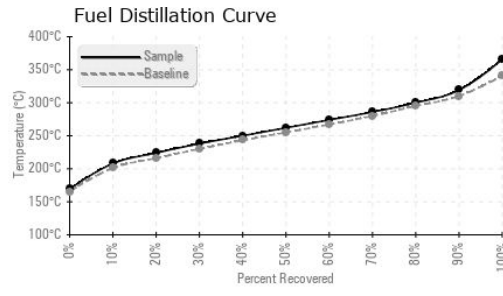
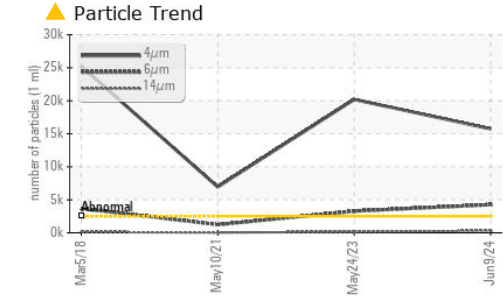
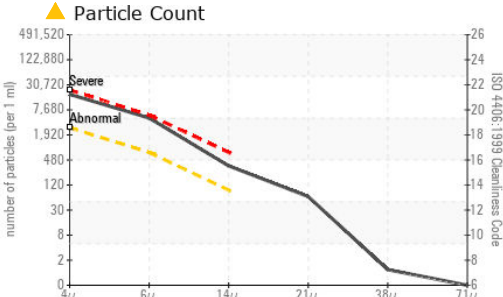
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	169	170	157
5% Distillation Point	°C	ASTM D2887*		196	197	190
10% Distill Point	°C	ASTM D2887*	201	208	207	201
15% Distillation Point	°C	ASTM D2887*		216	215	209
20% Distill Point	°C	ASTM D2887*	216	224	223	216
30% Distill Point	°C	ASTM D2887*	230	238	237	229
40% Distill Point	°C	ASTM D2887*	243	250	249	242
50% Distill Point	°C	ASTM D2887*	255	262	262	255
60% Distill Point	°C	ASTM D2887*	267	274	275	269
70% Distill Point	°C	ASTM D2887*	280	286	289	284
80% Distill Point	°C	ASTM D2887*	295	300	303	302
85% Distillation Point	°C	ASTM D2887*		310	314	313
90% Distill Point	°C	ASTM D2887*	310	319	324	327
95% Distillation Point	°C	ASTM D2887*		335	341	341
Final Boiling Point	°C	ASTM D2887*	341	366	368	366
Distillation Residue	%	ASTM D86(e)*	3.0	---	---	---
Distillation Loss	%	ASTM D86(e)*	3.0	---	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	36	38
Cetane Index		ASTM D4737*	<40.0	48	48	49

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<1	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	0
Water	%	ASTM D6304*	<0.05	0.004	0.002	0.004
ppm Water	ppm	ASTM D6304*	<500	41	21.6	49.8



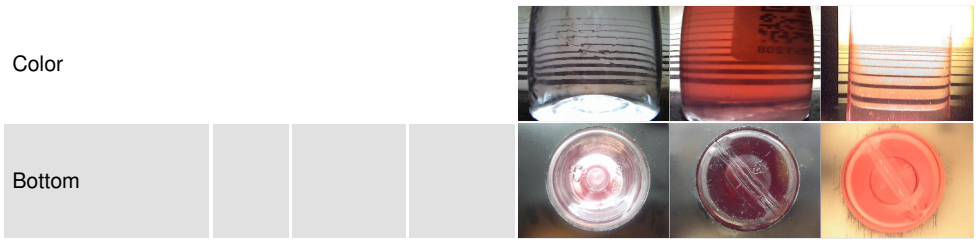
FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 15743	▲ 20200	▲ 6952
Particles >6µm	ASTM D7647	>640	▲ 4265	▲ 3290	● 1236
Particles >14µm	ASTM D7647	>80	▲ 305	● 140	34
Particles >21µm	ASTM D7647	>20	▲ 56	28	5
Particles >38µm	ASTM D7647	>4	1	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 21/19/15	▲ 22/19/14	▲ 20/17/12

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	<0.1	0	0	0
Nickel	ppm ASTM D5185(m)	<0.1	0	0	0
Lead	ppm ASTM D5185(m)	<0.1	0	0	0
Vanadium	ppm ASTM D5185(m)	<0.1	0	0	0
Iron	ppm ASTM D5185(m)	<0.1	0	<1	<1
Calcium	ppm ASTM D5185(m)	<0.1	<1	<1	<1
Magnesium	ppm ASTM D5185(m)	<0.1	0	<1	<1
Phosphorus	ppm ASTM D5185(m)	<0.1	<1	<1	<1
Zinc	ppm ASTM D5185(m)	<0.1	0	<1	<1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022901
Lab Number : 02640933
Unique Number : 5798472
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

CUMMINS CANADA ULC - GENERATOR DIVISION
 7175 PACIFIC CIRCLE
 MISSISSAUGA, ON
 CA L5T 2A5
 Contact: Elisia Johnson
 elisia.johnson@cummins.com
 T: (905)795-0050
 F: (905)795-9252

Received : 10 Jun 2024
 Tested : 13 Jun 2024
 Diagnosed : 13 Jun 2024 - Kevin Marson

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.