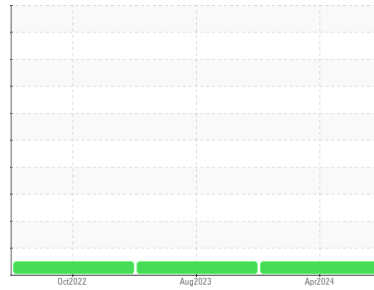




FUEL REPORT

Sample Rating Trend



NORMAL



Area
RIOCAN [154336]
 Machine Id
37253537 TOWER A
 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.

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			CU0022899	CU0016524	CU0019662
Sample Date	Client Info			27 Apr 2024	18 Aug 2023	17 Oct 2022
Machine Age	hrs	Client Info		238	216	193
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.843	0.842	0.843
Fuel Color	text	Visual Screen*	Yllow	Pink	Pink	Red
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.5	2.5	2.6
Pensky-Martens Flash Point	°C	ASTM D7215*	52	60	63.5	65.3

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	9	10	11

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	172	175	162
5% Distillation Point	°C	ASTM D2887*		195	198	193
10% Distill Point	°C	ASTM D2887*	201	205	207	204
15% Distillation Point	°C	ASTM D2887*		213	215	213
20% Distill Point	°C	ASTM D2887*	216	220	222	220
30% Distill Point	°C	ASTM D2887*	230	233	236	234
40% Distill Point	°C	ASTM D2887*	243	245	247	246
50% Distill Point	°C	ASTM D2887*	255	257	259	258
60% Distill Point	°C	ASTM D2887*	267	270	271	270
70% Distill Point	°C	ASTM D2887*	280	282	283	283
80% Distill Point	°C	ASTM D2887*	295	296	297	298
85% Distillation Point	°C	ASTM D2887*		306	307	306
90% Distill Point	°C	ASTM D2887*	310	317	317	316
95% Distillation Point	°C	ASTM D2887*		335	334	334
Final Boiling Point	°C	ASTM D2887*	341	359	361	348

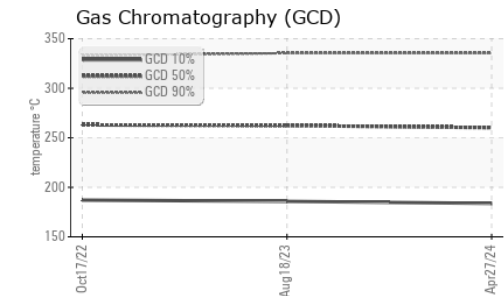
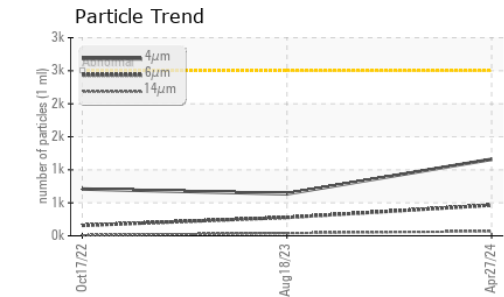
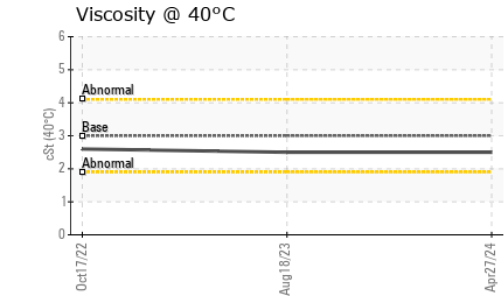
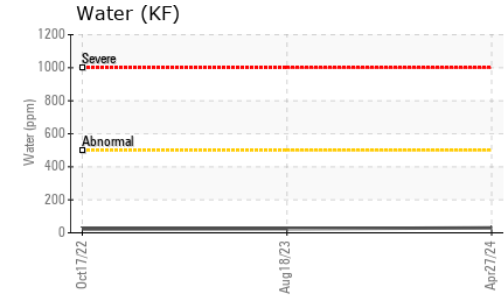
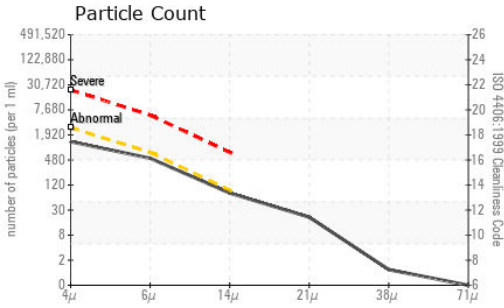
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	36	36
Cetane Index		ASTM D4737*	<40.0	46	47	46

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	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	0	<1	0
Water	%	ASTM D6304*	<0.05	0.003	0.003	0.002
ppm Water	ppm	ASTM D6304*	<500	30	25.3	23.6

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1159	636	709
Particles >6µm		ASTM D7647	>640	464	278	157
Particles >14µm		ASTM D7647	>80	68	41	8
Particles >21µm		ASTM D7647	>20	18	11	2
Particles >38µm		ASTM D7647	>4	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/16/13	16/15/13	17/14/10



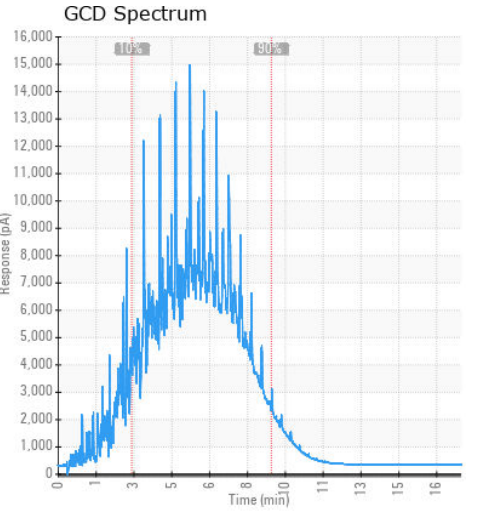
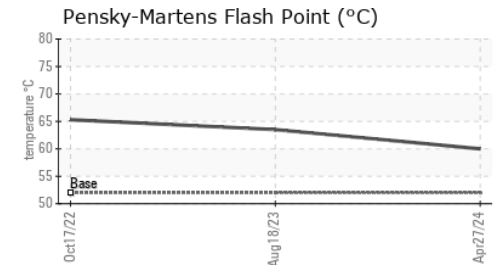
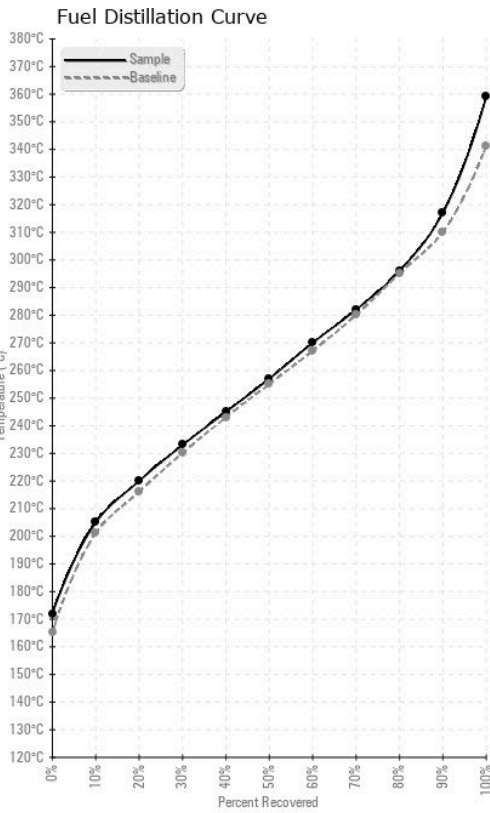
FUEL REPORT



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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS CANADA ULC - GENERATOR DIVISION**
Sample No. : CU0022899 **Received** : 10 Jun 2024 **7175 PACIFIC CIRCLE**
Lab Number : 02640921 **Tested** : 12 Jun 2024 **MISSISSAUGA, ON**
Unique Number : 5798460 **Diagnosed** : 12 Jun 2024 - Kevin Marson **CA L5T 2A5**
Test Package : FUEL (Additional Tests: CC Flash, PrtCount) **Contact: Elisia Johnson**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **elisia.johnson@cummins.com**
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **T: (905)795-0050**
Validity of results and interpretation are based on the sample and information as supplied. **F: (905)795-9252**