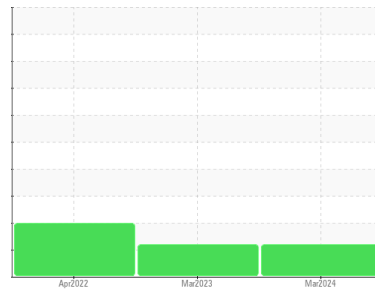




FUEL REPORT

Sample Rating Trend



ISO



Area

OI [152747]

Machine Id

GENERATOR #2 (S/N 11638222)

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. Resample at the next service interval to monitor.

Contaminants

There is a light 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).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			CU0022873	CU0020808	CU0019287
Sample Date	Client Info			04 Mar 2024	13 Mar 2023	25 Apr 2022
Machine Age	hrs	Client Info		519	482	0
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.847	0.845	0.844
Fuel Color	text	Visual Screen*	Yllow	Pink	Orang	Pink
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7	2.6	2.7
Pensky-Martens Flash Point	°C	ASTM D7215*	52	61.3	60.4	58

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	5	4	6

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	172	171	151
5% Distillation Point	°C	ASTM D2887*		195	195	173
10% Distill Point	°C	ASTM D2887*	201	206	205	187
15% Distillation Point	°C	ASTM D2887*		214	213	196
20% Distill Point	°C	ASTM D2887*	216	222	221	204
30% Distill Point	°C	ASTM D2887*	230	236	235	219
40% Distill Point	°C	ASTM D2887*	243	249	248	233
50% Distill Point	°C	ASTM D2887*	255	262	261	246
60% Distill Point	°C	ASTM D2887*	267	275	274	261
70% Distill Point	°C	ASTM D2887*	280	288	288	275
80% Distill Point	°C	ASTM D2887*	295	302	302	289
85% Distillation Point	°C	ASTM D2887*		313	313	299
90% Distill Point	°C	ASTM D2887*	310	323	325	311
95% Distillation Point	°C	ASTM D2887*		342	344	333
Final Boiling Point	°C	ASTM D2887*	341	372	368	357

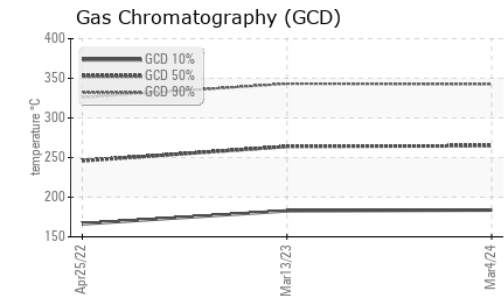
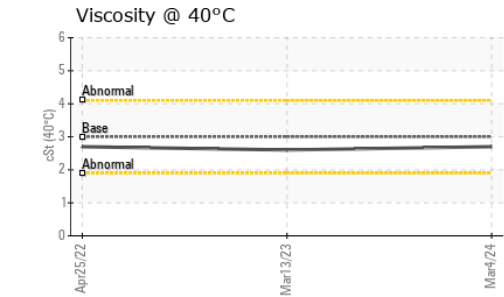
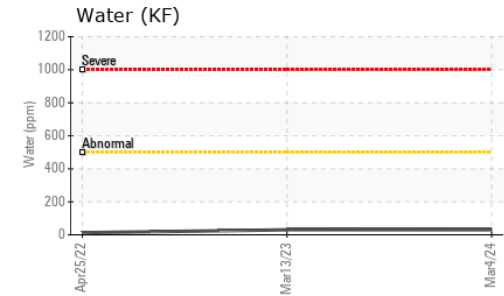
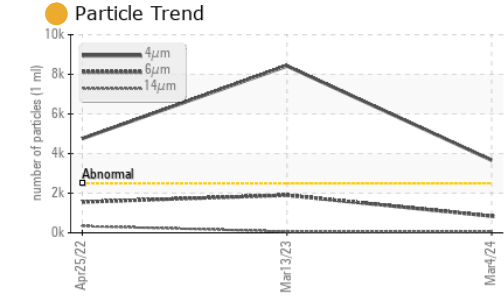
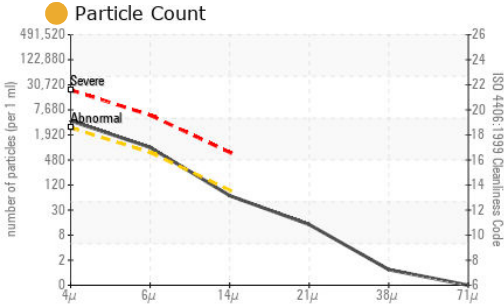
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35	35	36
Cetane Index		ASTM D4737*	<40.0	46	46	43

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	0.003	0.003	0.001
ppm Water	ppm	ASTM D6304*	<500	30	30.5	12.9

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	3664	8421	4757
Particles >6µm		ASTM D7647	>640	843	1897	1553
Particles >14µm		ASTM D7647	>80	59	64	339
Particles >21µm		ASTM D7647	>20	12	12	111
Particles >38µm		ASTM D7647	>4	1	1	8
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	19/17/13	20/18/13	19/18/16



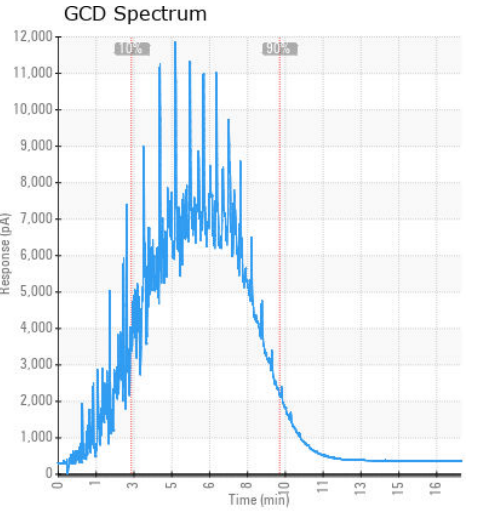
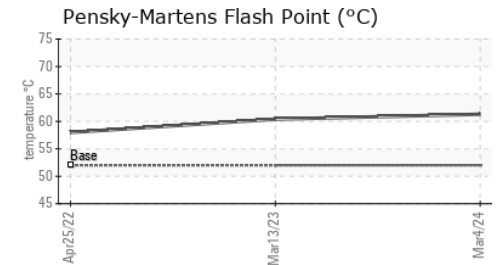
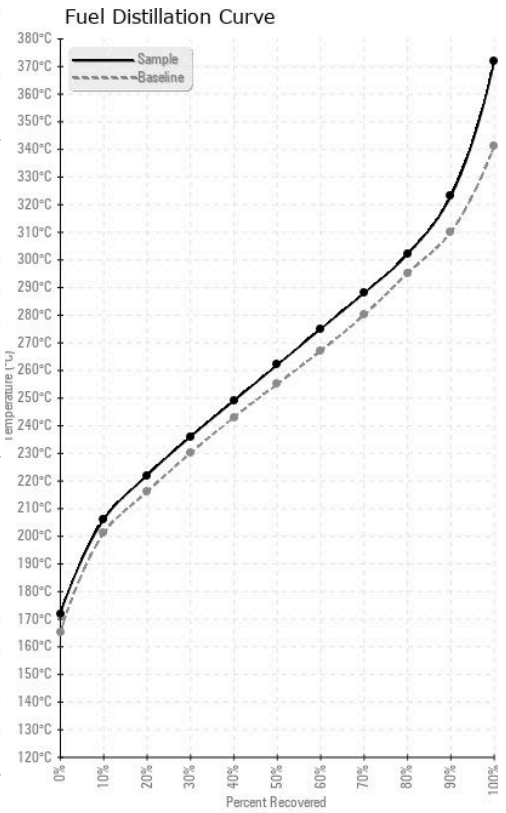
FUEL REPORT



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)	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1
Calcium	ppm	ASTM D5185(m)	<0.1	<1	<1
Magnesium	ppm	ASTM D5185(m)	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	<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. : CU0022873 **Received** : 10 Jun 2024 **7175 PACIFIC CIRCLE**
Lab Number : 02640935 **Tested** : 13 Jun 2024 **MISSISSAUGA, ON**
Unique Number : 5798474 **Diagnosed** : 13 Jun 2024 - Kevin Marson **CA L5T 2A5**
Test Package : FUEL (Additional Tests: CC Flash, PrtCount) **Contact: Elisia Johnson**
elisia.johnson@cummins.com

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.