



FUEL REPORT

Sample Rating Trend

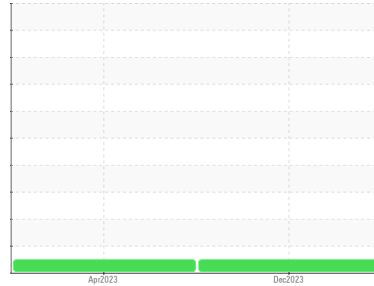
NORMAL



Area
[149425]
Machine Id
A170144731

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.

Corrosion

{not applicable}

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			CU0022412	CU0019511	---
Sample Date	Client Info			05 Dec 2023	04 Apr 2023	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				NORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.845	0.845	---
Fuel Color	text	Visual Screen*	Yellow	Red	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.8	2.7	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	73.7	73.9	---

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

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	186	187	---
5% Distillation Point	°C	ASTM D2887*		206	207	---
10% Distill Point	°C	ASTM D2887*	201	213	214	---
15% Distillation Point	°C	ASTM D2887*		220	221	---
20% Distill Point	°C	ASTM D2887*	216	226	228	---
30% Distill Point	°C	ASTM D2887*	230	239	241	---
40% Distill Point	°C	ASTM D2887*	243	250	252	---
50% Distill Point	°C	ASTM D2887*	255	262	264	---
60% Distill Point	°C	ASTM D2887*	267	274	277	---
70% Distill Point	°C	ASTM D2887*	280	287	289	---
80% Distill Point	°C	ASTM D2887*	295	300	302	---
85% Distillation Point	°C	ASTM D2887*		309	311	---
90% Distill Point	°C	ASTM D2887*	310	317	320	---
95% Distillation Point	°C	ASTM D2887*		332	334	---
Final Boiling Point	°C	ASTM D2887*	341	343	347	---

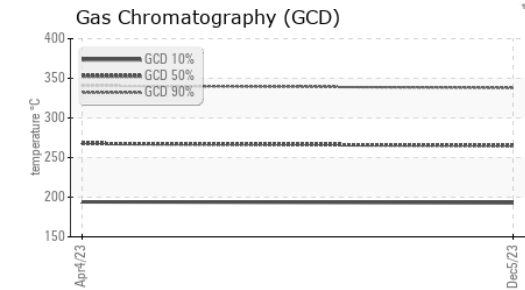
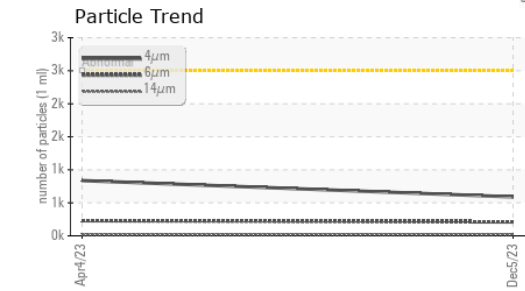
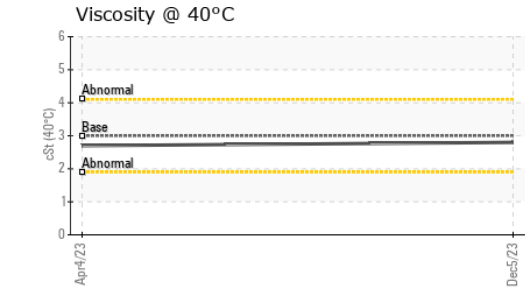
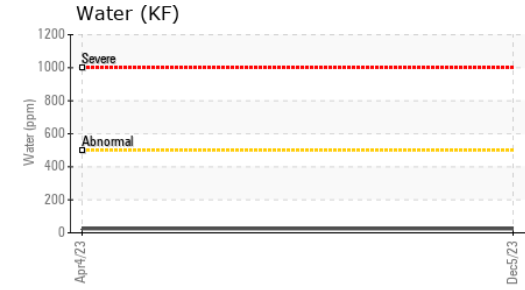
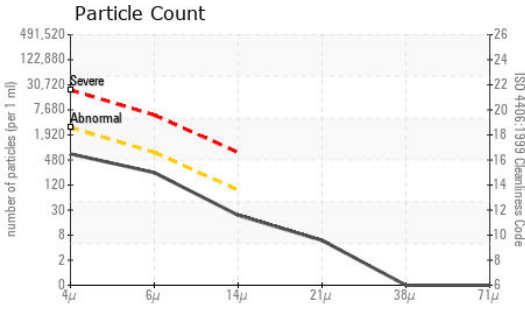
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	35	35	---
Cetane Index		ASTM D4737*	<40.0	47	48	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	<1	0	---
Potassium	ppm	ASTM D5185(m)	<0.1	<1	0	---
Water	%	ASTM D6304*	<0.05	0.002	0.003	---
ppm Water	ppm	ASTM D6304*	<500	25	25.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	589	837	---
Particles >6µm		ASTM D7647	>640	210	229	---
Particles >14µm		ASTM D7647	>80	20	17	---
Particles >21µm		ASTM D7647	>20	5	4	---
Particles >38µm		ASTM D7647	>4	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/11	17/15/11	---



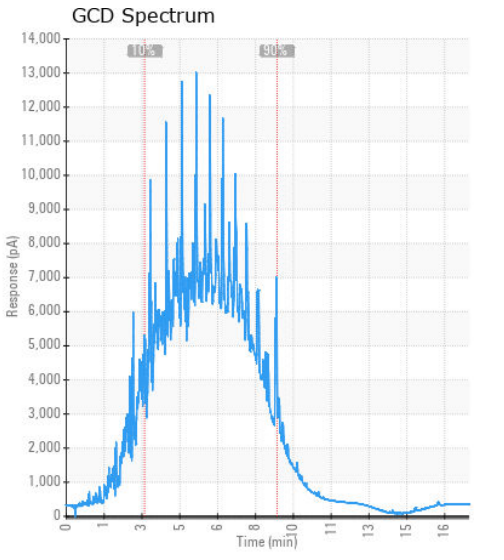
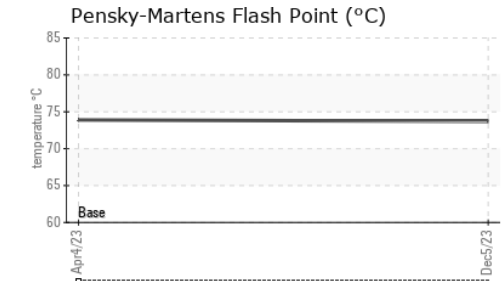
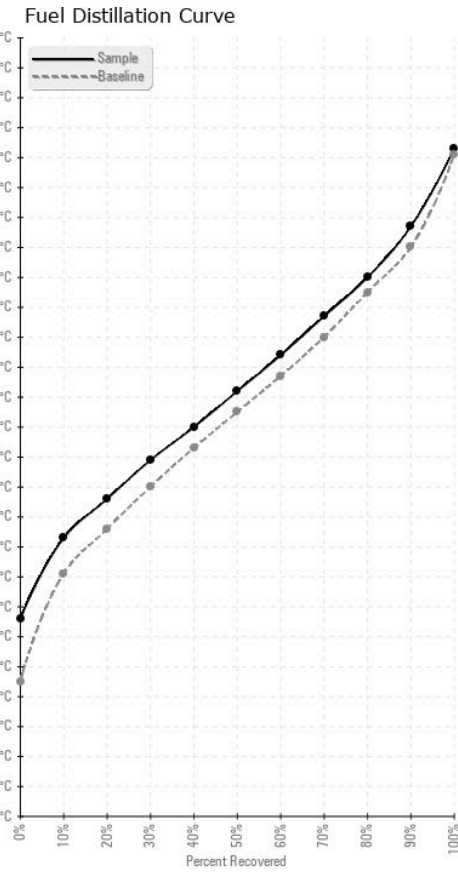
FUEL REPORT



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	0	---
Zinc	ppm	ASTM D5185(m)	<0.1	<1	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	
Bottom				no image	

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION
Sample No. : CU0022412 **Received** : 06 Dec 2023 7175 PACIFIC CIRCLE
Lab Number : 02601367 **Diagnosed** : 11 Dec 2023 MISSISSAUGA, ON
Unique Number : 5694452 **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.