



FUEL REPORT

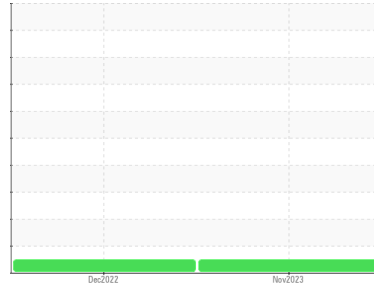
Sample Rating Trend

NORMAL



Area
SCHLEGEL VILLAGES [149428]
Machine Id
EASOA100092 (S/N EA50A100092)

Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-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 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			CU0022408	CU0019632	---
Sample Date	Client Info			30 Nov 2023	20 Dec 2022	---
Machine Age	hrs	Client Info		328	324	---
Sample Status				NORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.843	0.842	---
Fuel Color	text	Visual Screen*	Yllow	Red	Red	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7	2.6	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	77.4	83.3	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	30	42	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	191	199	---
5% Distillation Point	°C	ASTM D2887*		209	215	---
10% Distill Point	°C	ASTM D2887*	201	215	221	---
15% Distillation Point	°C	ASTM D2887*		221	227	---
20% Distill Point	°C	ASTM D2887*	216	227	233	---
30% Distill Point	°C	ASTM D2887*	230	238	245	---
40% Distill Point	°C	ASTM D2887*	243	249	256	---
50% Distill Point	°C	ASTM D2887*	255	260	266	---
60% Distill Point	°C	ASTM D2887*	267	272	278	---
70% Distill Point	°C	ASTM D2887*	280	284	290	---
80% Distill Point	°C	ASTM D2887*	295	297	304	---
85% Distillation Point	°C	ASTM D2887*		307	314	---
90% Distill Point	°C	ASTM D2887*	310	316	325	---
95% Distillation Point	°C	ASTM D2887*		333	343	---
Final Boiling Point	°C	ASTM D2887*	341	347	365	---

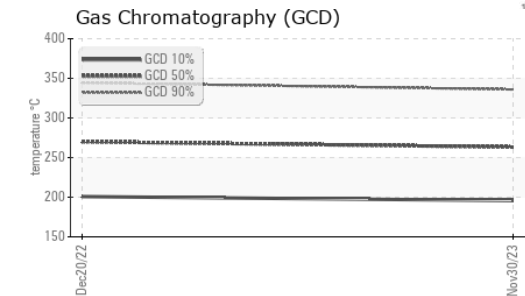
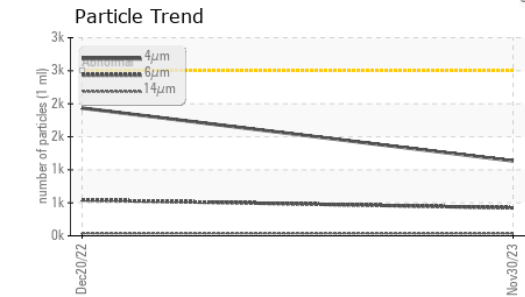
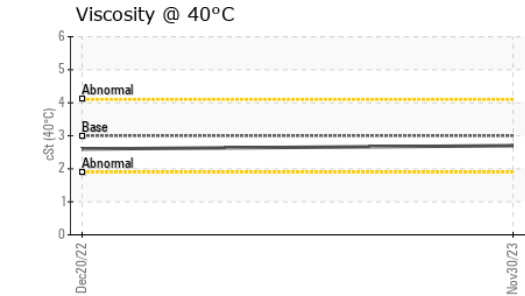
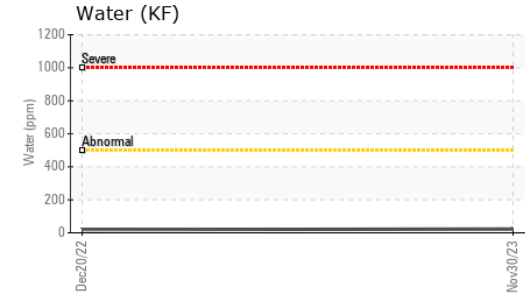
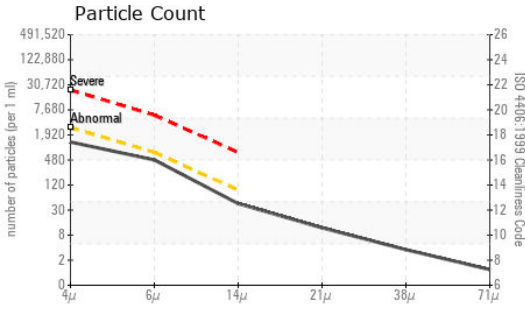
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	36	---
Cetane Index		ASTM D4737*	<40.0	48	50	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<1	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	0	---
Potassium	ppm	ASTM D5185(m)	<0.1	<1	0	---
Water	%	ASTM D6304*	<0.05	0.002	0.002	---
ppm Water	ppm	ASTM D6304*	<500	23	19.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1134	1934	---
Particles >6µm		ASTM D7647	>640	423	543	---
Particles >14µm		ASTM D7647	>80	38	40	---
Particles >21µm		ASTM D7647	>20	10	12	---
Particles >38µm		ASTM D7647	>4	3	2	---
Particles >71µm		ASTM D7647	>3	1	1	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/16/12	18/16/12	---

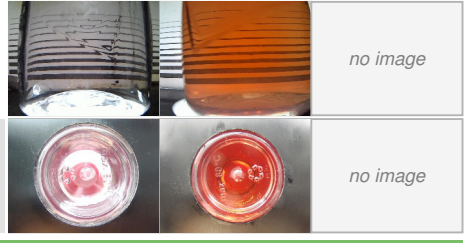


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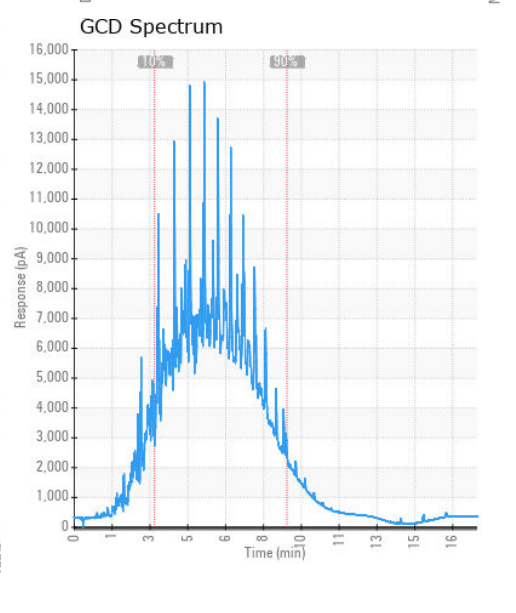
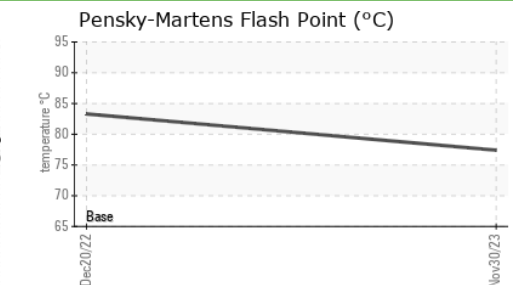
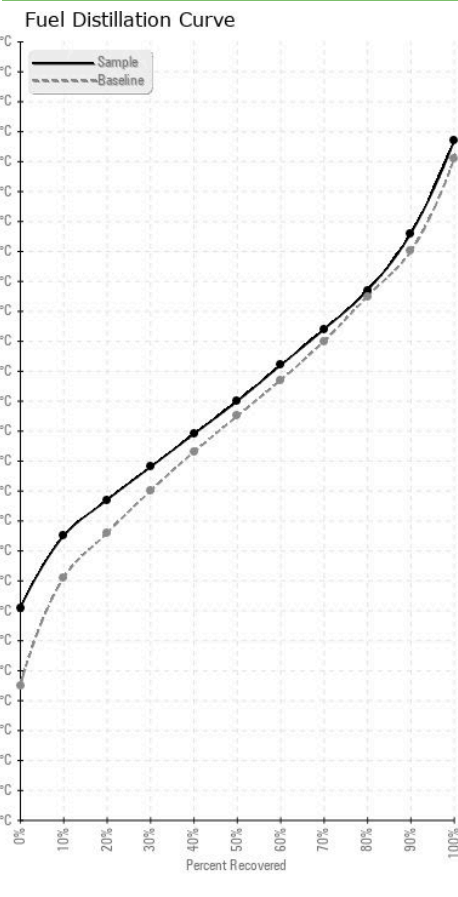


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---
Zinc	ppm	ASTM D5185(m)	<0.1	0	<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. : CU0022408 **Received** : 06 Dec 2023 **7175 PACIFIC CIRCLE**
Lab Number : 02601363 **Diagnosed** : 11 Dec 2023 **MISSISSAUGA, ON**
Unique Number : 5694448 **Diagnostician** : Kevin Marson **CA L5T 2A5**
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, 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**