



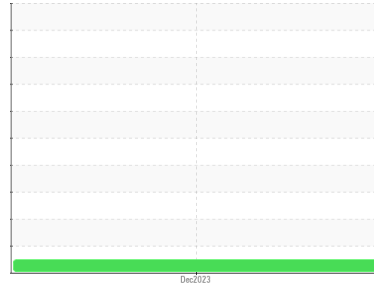
FUEL REPORT

Sample Rating Trend

NORMAL



Area
SCHENKER OF CANADA [148460]
 Machine Id
37279836
 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		CU0021482	---	---
Sample Date	Client Info		04 Dec 2023	---	---
Machine Age	hrs	Client Info	56	---	---
Sample Status			NORMAL	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839	0.840	---	---
Fuel Color	text	Visual Screen*	Red	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	---	---

SULFUR CONTENT

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

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	---	---
5% Distillation Point	°C	ASTM D2887*	195	---	---
10% Distill Point	°C	ASTM D2887*	201	---	---
15% Distillation Point	°C	ASTM D2887*	211	---	---
20% Distill Point	°C	ASTM D2887*	216	---	---
30% Distill Point	°C	ASTM D2887*	230	---	---
40% Distill Point	°C	ASTM D2887*	243	---	---
50% Distill Point	°C	ASTM D2887*	255	---	---
60% Distill Point	°C	ASTM D2887*	267	---	---
70% Distill Point	°C	ASTM D2887*	280	---	---
80% Distill Point	°C	ASTM D2887*	295	---	---
85% Distillation Point	°C	ASTM D2887*	304	---	---
90% Distill Point	°C	ASTM D2887*	310	---	---
95% Distillation Point	°C	ASTM D2887*	331	---	---
Final Boiling Point	°C	ASTM D2887*	341	---	---

IGNITION QUALITY

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

CONTAMINANTS

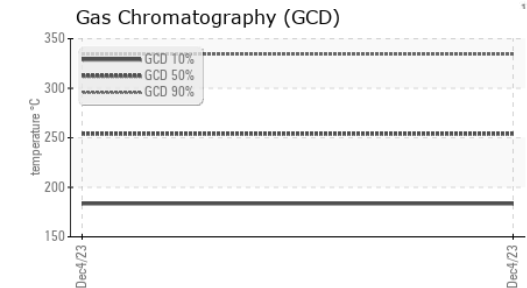
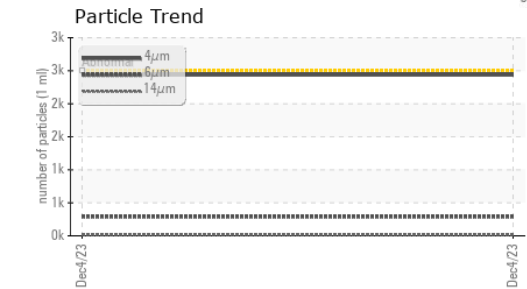
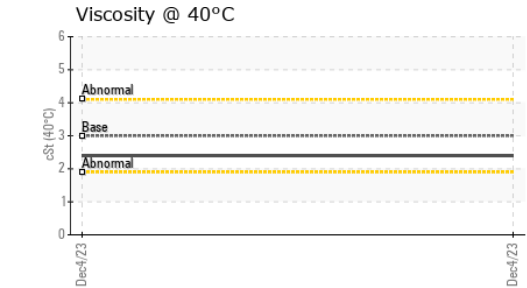
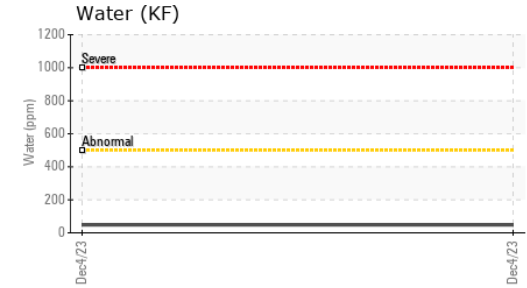
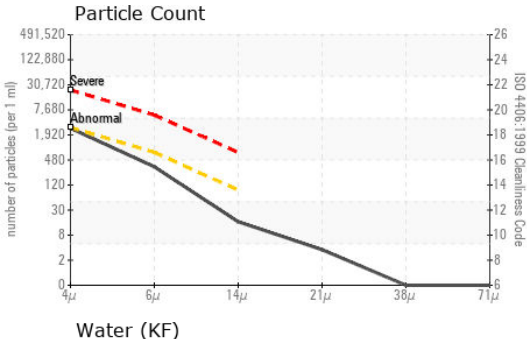
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	<1	---
Water	%	ASTM D6304*	<0.05	0.004	---
ppm Water	ppm	ASTM D6304*	<500	48	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	2437	---	---
Particles >6µm	ASTM D7647	>640	290	---	---
Particles >14µm	ASTM D7647	>80	14	---	---
Particles >21µm	ASTM D7647	>20	3	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/15/11	---	---



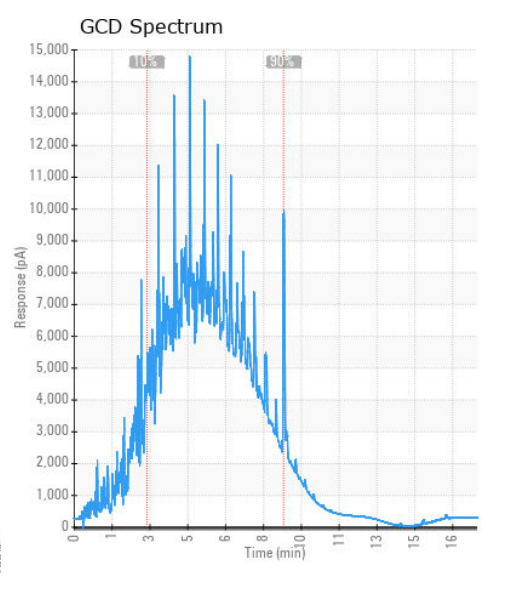
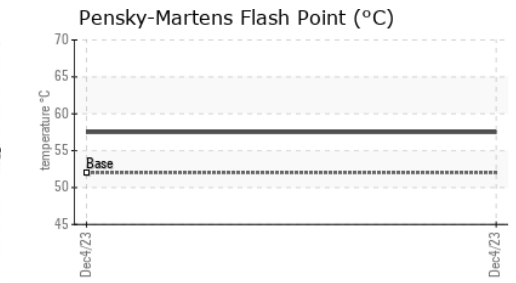
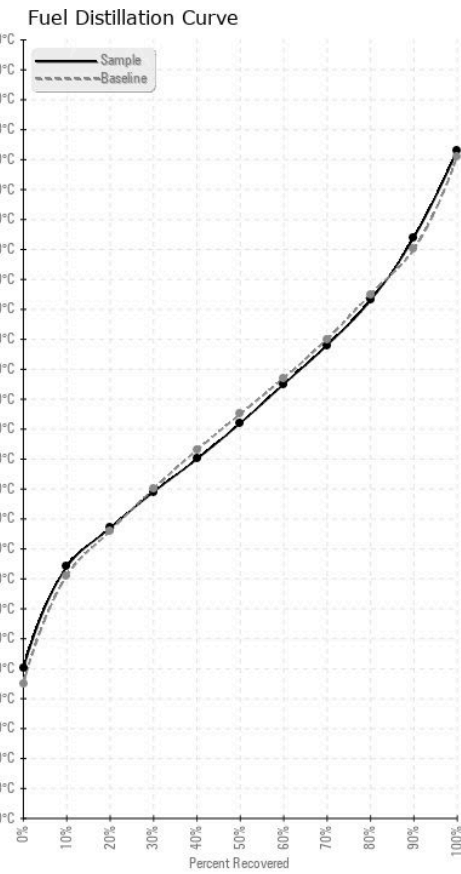
FUEL REPORT



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

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION
Sample No. : CU0021482 **Received** : 06 Dec 2023 **7175 PACIFIC CIRCLE**
Lab Number : 02601366 **Diagnosed** : 11 Dec 2023 **MISSISSAUGA, ON**
Unique Number : 5694451 **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**