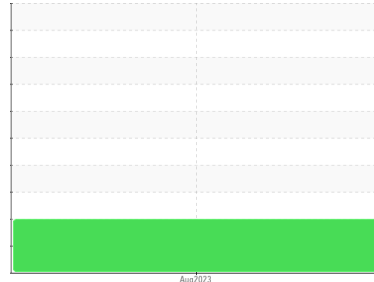




FUEL REPORT

Sample Rating Trend



ISO



Area
[145095]
 Machine Id
60845311

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. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Corrosion

{not applicable}

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. 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). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			CU0021468	---	---
Sample Date	Client Info			20 Aug 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.861	---	---
Fuel Color	text	Visual Screen*	Yllow	Yllow	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	66.4	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	12	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	177	---	---
5% Distillation Point	°C	ASTM D2887*		207	---	---
10% Distill Point	°C	ASTM D2887*	201	218	---	---
15% Distillation Point	°C	ASTM D2887*		226	---	---
20% Distill Point	°C	ASTM D2887*	216	234	---	---
30% Distill Point	°C	ASTM D2887*	230	247	---	---
40% Distill Point	°C	ASTM D2887*	243	256	---	---
50% Distill Point	°C	ASTM D2887*	255	266	---	---
60% Distill Point	°C	ASTM D2887*	267	276	---	---
70% Distill Point	°C	ASTM D2887*	280	286	---	---
80% Distill Point	°C	ASTM D2887*	295	297	---	---
85% Distillation Point	°C	ASTM D2887*		307	---	---
90% Distill Point	°C	ASTM D2887*	310	317	---	---
95% Distillation Point	°C	ASTM D2887*		335	---	---
Final Boiling Point	°C	ASTM D2887*	341	355	---	---

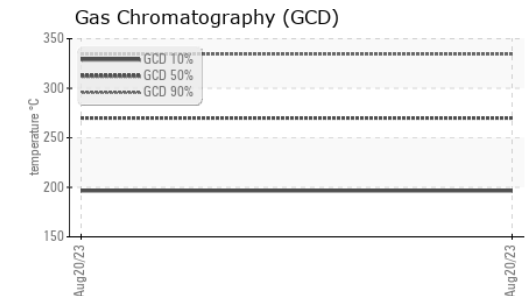
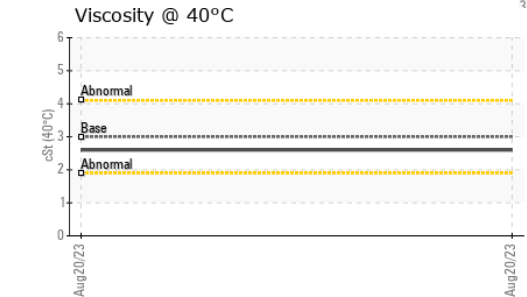
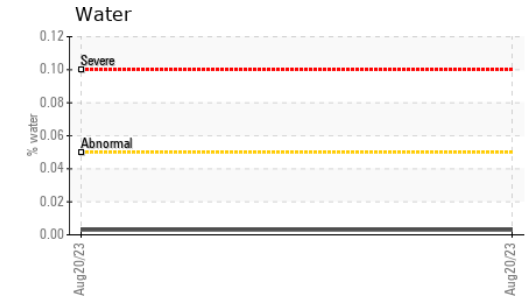
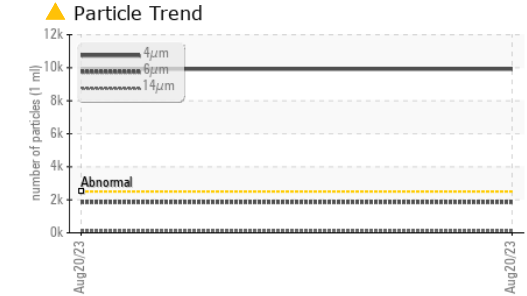
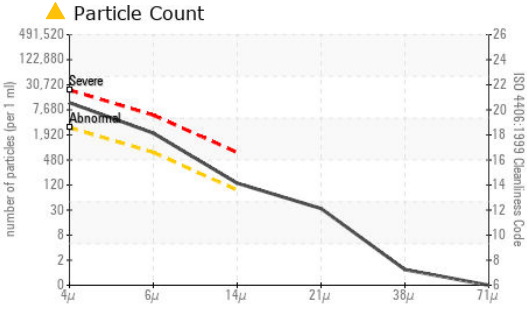
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	32	---	---
Cetane Index		ASTM D4737*	<40.0	42	---	---

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	0.003	---	---
ppm Water	ppm	ASTM D6304*	<500	36.9	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 9916	---	---
Particles >6µm		ASTM D7647	>640	▲ 1851	---	---
Particles >14µm		ASTM D7647	>80	▲ 117	---	---
Particles >21µm		ASTM D7647	>20	▲ 29	---	---
Particles >38µm		ASTM D7647	>4	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 20/18/14	---	---



FUEL REPORT

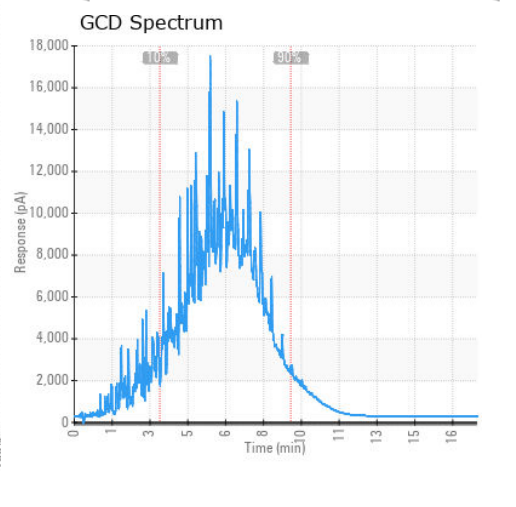
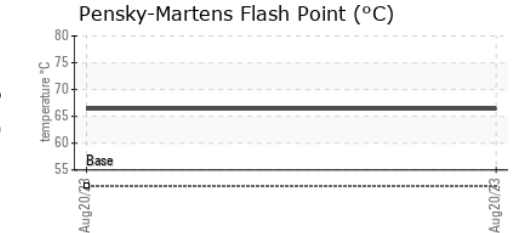
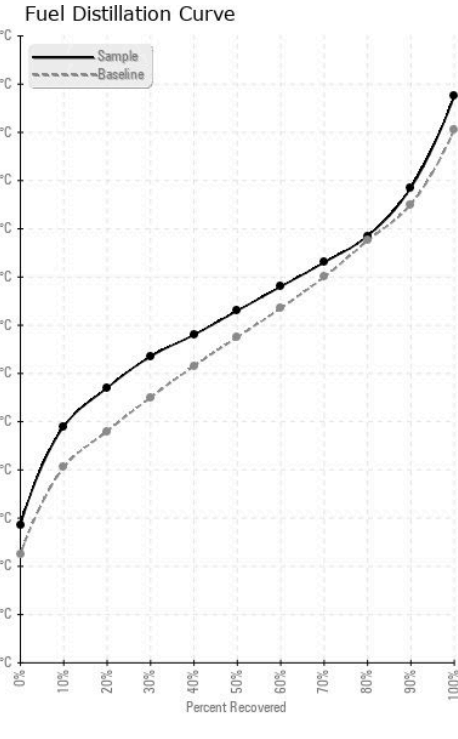


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml	ASTM D6469*	>=100000	0	---
Yeast	CFU/ml	ASTM D6469*	>=100000	0	---
Mold	Colonies	ASTM D6469*	MODER	NONE	---

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

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 EASTERN CANADA LP**
Sample No. : CU0021468 **Received** : 21 Aug 2023 **6950 EDWARDS BLVD**
Lab Number : 02577295 **Diagnosed** : 25 Aug 2023 **MISSISSAUGA, ON**
Unique Number : 5630355 **Diagnostician** : Kevin Marson **CA L5T 2W2**
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, GC-PercFuel, PrtCount) **Contact: Jason Doxsee**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **jason.doxsee@cummins.com**
Test denoted () outside scope of accreditation, (m) method modified, (e) tested at external lab.* **T: (613)847-5020**
Validity of results and interpretation are based on the sample and information as supplied. **F: (905)795-0035**