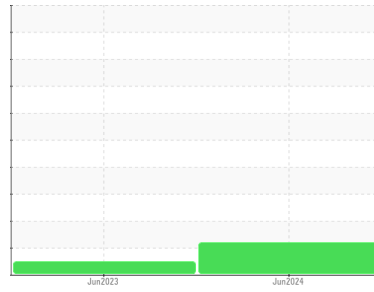




FUEL REPORT

Sample Rating Trend



ISO



Area
COMMONWELL MUTUAL [155144]

Machine Id
35117755

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. We recommend an early resample to monitor this condition.

Contaminants

There is a moderate 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). 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			CU0020774	CU0021385	---
Sample Date	Client Info			11 Jun 2024	14 Jun 2023	---
Machine Age	hrs	Client Info		486	455	---
Sample Status				ABNORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.842	0.840	---
Fuel Color	text	Visual Screen*	Yellow	Red	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.4	2.3	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	57.9	56	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	12	9	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	170	168	---
5% Distillation Point	°C	ASTM D2887*		195	191	---
10% Distill Point	°C	ASTM D2887*	201	204	200	---
15% Distillation Point	°C	ASTM D2887*		210	207	---
20% Distill Point	°C	ASTM D2887*	216	217	214	---
30% Distill Point	°C	ASTM D2887*	230	228	226	---
40% Distill Point	°C	ASTM D2887*	243	240	238	---
50% Distill Point	°C	ASTM D2887*	255	251	249	---
60% Distill Point	°C	ASTM D2887*	267	265	262	---
70% Distill Point	°C	ASTM D2887*	280	278	275	---
80% Distill Point	°C	ASTM D2887*	295	293	290	---
85% Distillation Point	°C	ASTM D2887*		305	301	---
90% Distill Point	°C	ASTM D2887*	310	316	312	---
95% Distillation Point	°C	ASTM D2887*		336	332	---
Final Boiling Point	°C	ASTM D2887*	341	373	354	---

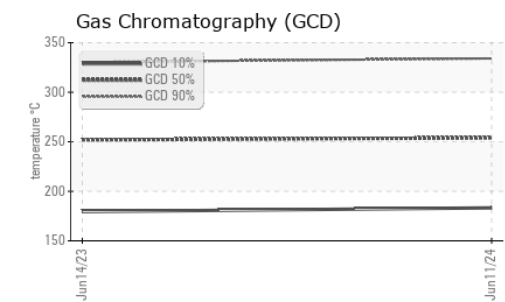
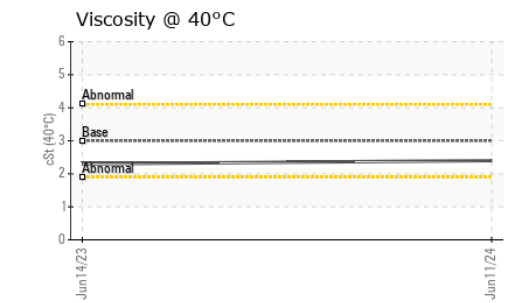
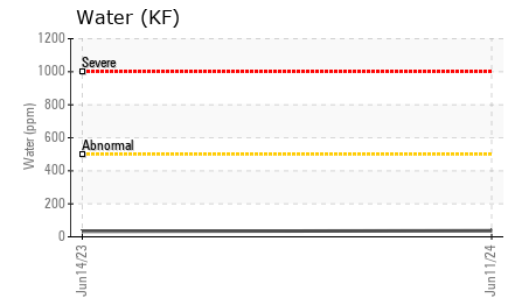
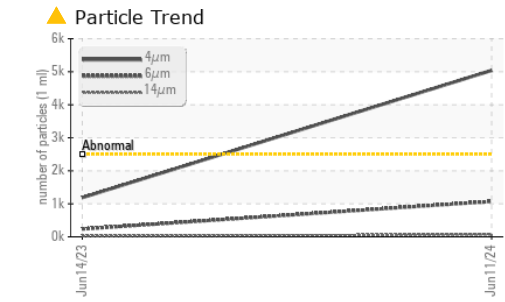
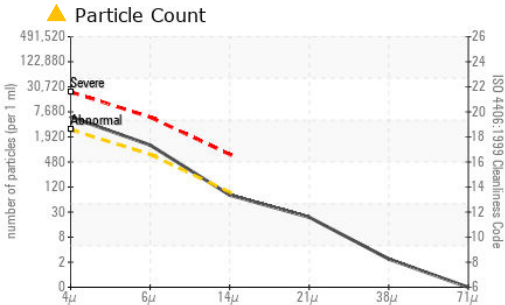
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	---	36	---
Cetane Index		ASTM D4737*	<40.0	---	46	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	<1	---
Water	%	ASTM D6304*	<0.05	0.003	0.003	---
ppm Water	ppm	ASTM D6304*	<500	37	33.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 5040	1187	---
Particles >6µm		ASTM D7647	>640	● 1071	236	---
Particles >14µm		ASTM D7647	>80	68	22	---
Particles >21µm		ASTM D7647	>20	20	10	---
Particles >38µm		ASTM D7647	>4	2	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 20/17/13	17/15/12	---

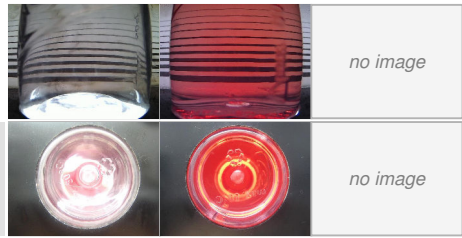


FUEL REPORT

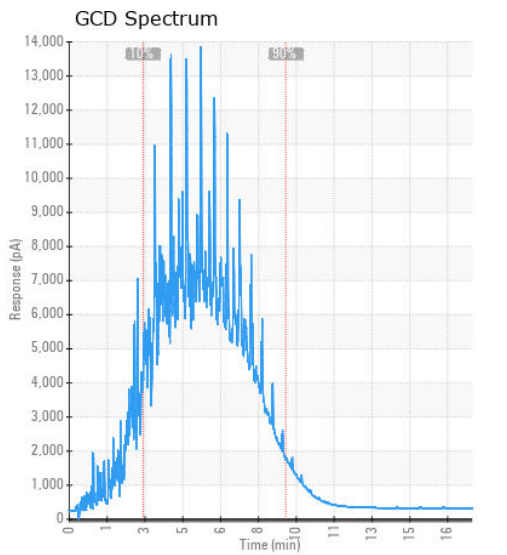
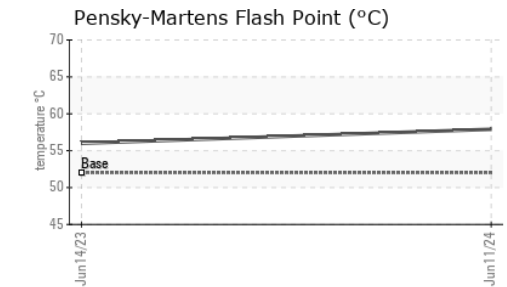
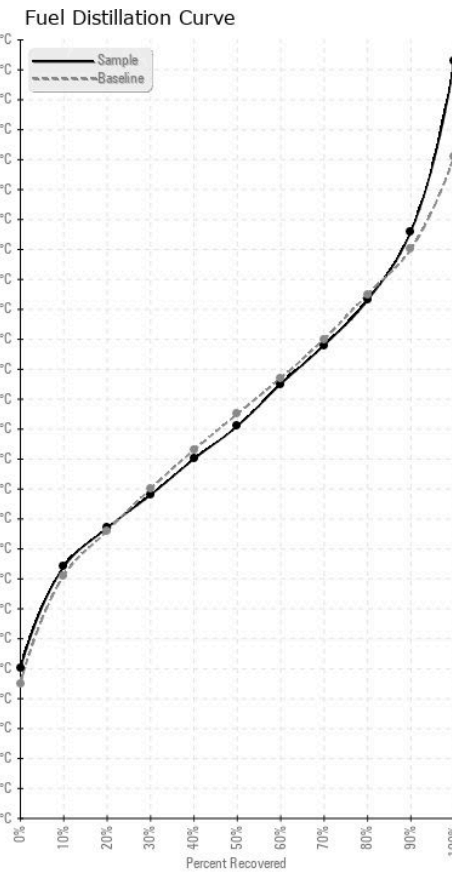


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	0	---
Magnesium	ppm	ASTM D5185(m)	<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					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CUMMINS CANADA ULC - GENERATOR DIVISION**
Sample No. : CU0020774 **Received** : 21 Jun 2024 **7175 PACIFIC CIRCLE**
Lab Number : **02643552** **Tested** : 25 Jun 2024 **MISSISSAUGA, ON**
Unique Number : 5801091 **Diagnosed** : 25 Jun 2024 - Kevin Marson **CA L5T 2A5**
Test Package : FUEL (Additional Tests: CC Flash, 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**