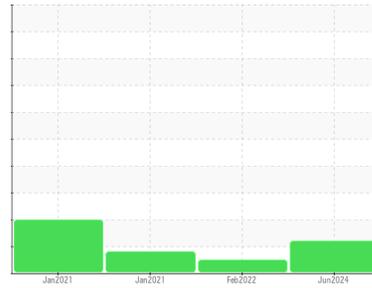




FUEL REPORT

Sample Rating Trend



ISO



Area
JOHNSON CONTROLS

Machine Id
33197011

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. Resample at the next service interval to monitor.

Contaminants

There is a light 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).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			CU	CU0018553	CU0017481
Sample Date	Client Info			09 Jun 2024	02 Feb 2022	19 Jan 2021
Machine Age	hrs	Client Info		0	345	0
Sample Status				ATTENTION	NORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.853	0.848	0.852
Fuel Color	text	Visual Screen*	Yllow	Pink	Pink	Orang
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6	2.5	2.4
Pensky-Martens Flash Point	°C	ASTM D7215*	52	68.7	56.8	62.9

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	12	11	8

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	181	155	160
5% Distillation Point	°C	ASTM D2887*		207	186	191
10% Distill Point	°C	ASTM D2887*	201	216	199	204
15% Distillation Point	°C	ASTM D2887*		224	209	213
20% Distill Point	°C	ASTM D2887*	216	231	216	221
30% Distill Point	°C	ASTM D2887*	230	243	229	234
40% Distill Point	°C	ASTM D2887*	243	254	240	246
50% Distill Point	°C	ASTM D2887*	255	264	251	257
60% Distill Point	°C	ASTM D2887*	267	275	263	269
70% Distill Point	°C	ASTM D2887*	280	286	275	281
80% Distill Point	°C	ASTM D2887*	295	297	287	297
85% Distillation Point	°C	ASTM D2887*		306	296	306
90% Distill Point	°C	ASTM D2887*	310	315	307	317
95% Distillation Point	°C	ASTM D2887*		331	328	335
Final Boiling Point	°C	ASTM D2887*	341	353	343	346

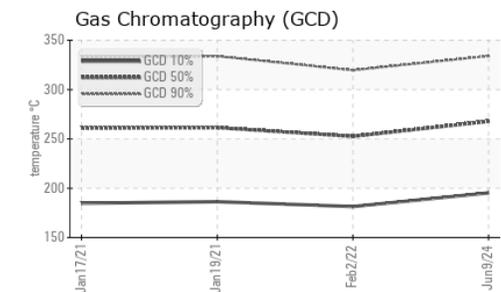
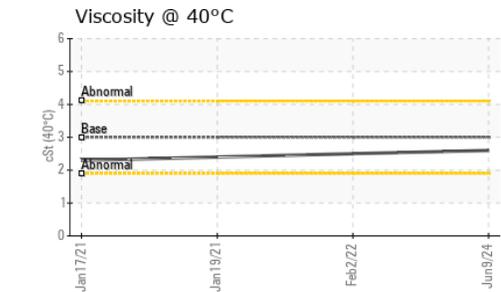
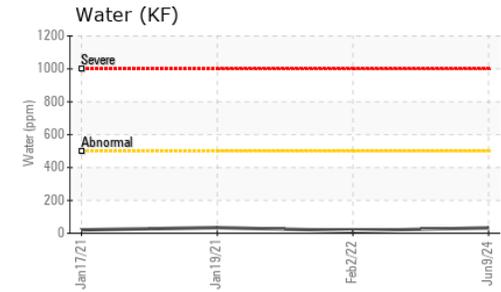
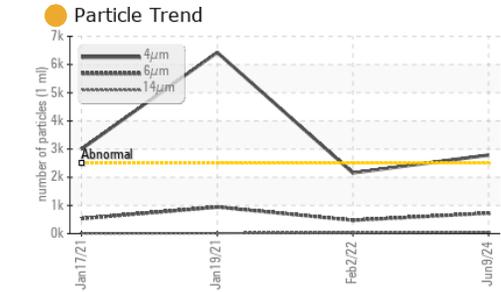
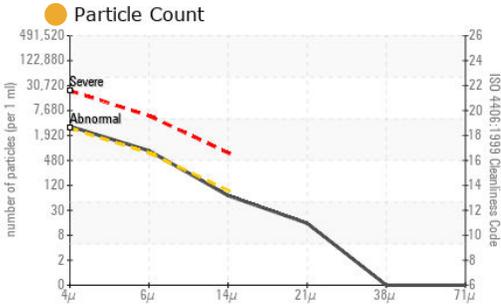
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	34	35	34
Cetane Index		ASTM D4737*	<40.0	45	43	43

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	3
Sodium	ppm	ASTM D5185(m)	<0.1	<1	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	0
Water	%	ASTM D6304*	<0.05	0.003	0.001	0.003
ppm Water	ppm	ASTM D6304*	<500	33	14.8	34.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2788	2155	6430
Particles >6µm		ASTM D7647	>640	724	474	943
Particles >14µm		ASTM D7647	>80	60	39	16
Particles >21µm		ASTM D7647	>20	13	11	2
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	19/17/13	18/16/12	20/17/11



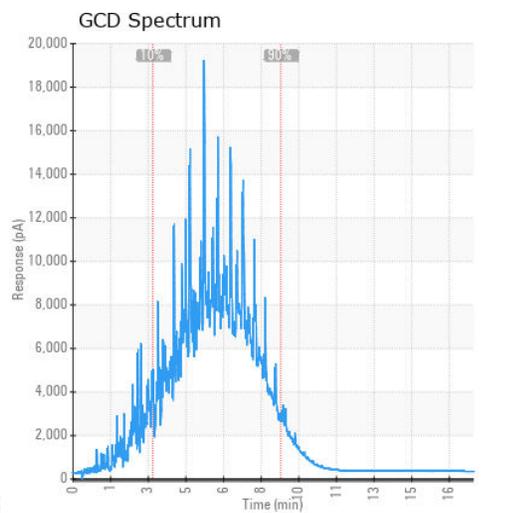
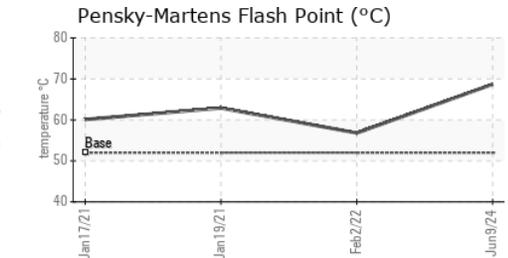
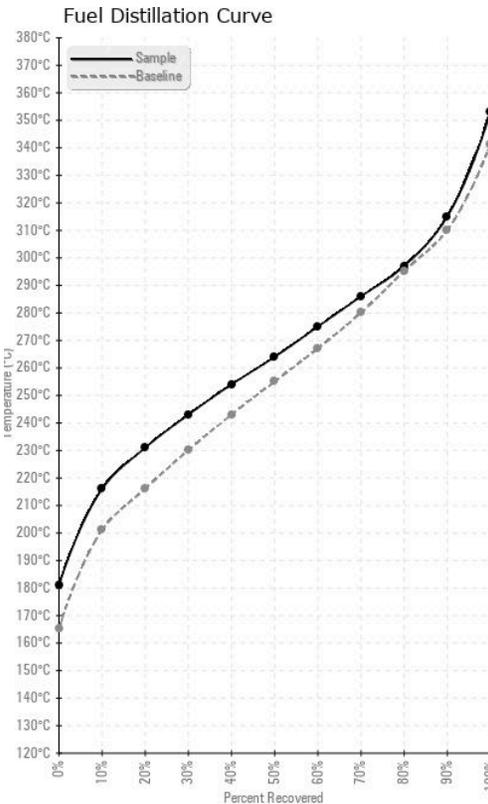
FUEL REPORT



HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	0	0
Lead	ppm	ASTM D5185(m)	<0.1	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1
Calcium	ppm	ASTM D5185(m)	<0.1	0	<1
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	0
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	<1
Zinc	ppm	ASTM D5185(m)	<0.1	<1	<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. : CU **Received** : 10 Jun 2024 **7175 PACIFIC CIRCLE**
Lab Number : 02640924 **Tested** : 12 Jun 2024 **MISSISSAUGA, ON**
Unique Number : 5798463 **Diagnosed** : 12 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**