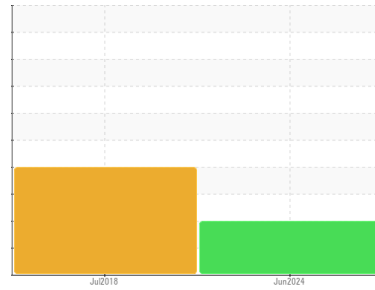




FUEL REPORT

Sample Rating Trend



ISO



Area

[104101]

Machine Id

5117A

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. 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			CU0021129	CU0013759	---
Sample Date	Client Info			22 Jun 2024	21 Jul 2018	---
Machine Age	hrs	Client Info		535	337	---
Sample Status				ATTENTION	MARGINAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.823	0.817	---
Fuel Color	text	Visual Screen*	Yllow	Red	Red	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2	2.1	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	55.5	55	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	9	6	---

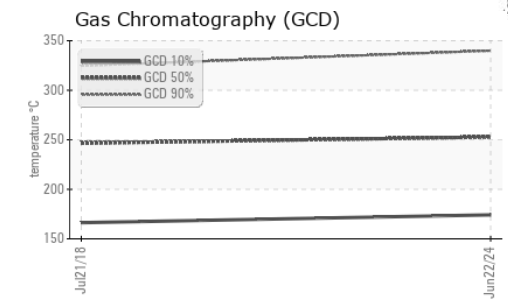
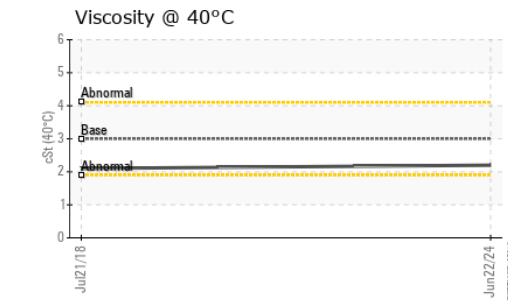
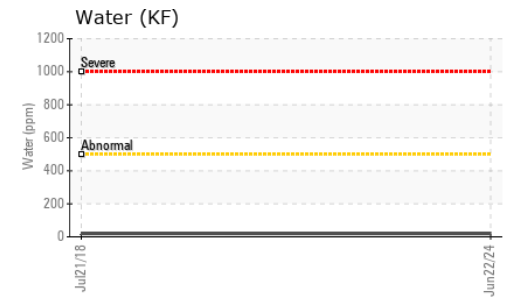
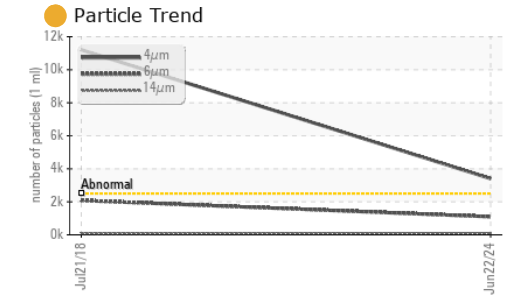
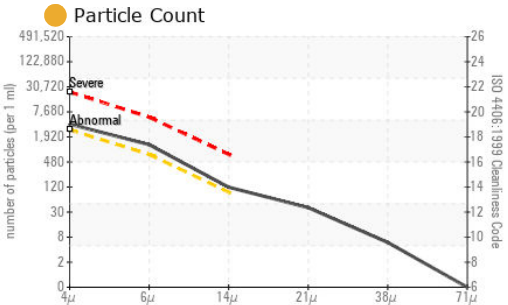
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	165	156	---
5% Distillation Point	°C	ASTM D2887*		187	180	---
10% Distill Point	°C	ASTM D2887*	201	195	189	---
15% Distillation Point	°C	ASTM D2887*		203	195	---
20% Distill Point	°C	ASTM D2887*	216	210	202	---
30% Distill Point	°C	ASTM D2887*	230	224	216	---
40% Distill Point	°C	ASTM D2887*	243	237	230	---
50% Distill Point	°C	ASTM D2887*	255	251	244	---
60% Distill Point	°C	ASTM D2887*	267	265	257	---
70% Distill Point	°C	ASTM D2887*	280	279	271	---
80% Distill Point	°C	ASTM D2887*	295	296	286	---
85% Distillation Point	°C	ASTM D2887*		309	294	---
90% Distill Point	°C	ASTM D2887*	310	322	305	---
95% Distillation Point	°C	ASTM D2887*		344	323	---
Final Boiling Point	°C	ASTM D2887*	341	381	335	---
Distillation Residue	%	ASTM D86(e)*	3.0	---	1.4	---
Distillation Loss	%	ASTM D86(e)*	3.0	---	0.9	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	40	41.7	---
Cetane Index		ASTM D4737*	<40.0	52	53.5	---

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	<1	0	---
Water	%	ASTM D6304*	<0.05	0.002	0.002	---
ppm Water	ppm	ASTM D6304*	<500	20	20.1	---




FUEL REPORT




FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	● 3405	11207	---
Particles >6µm	ASTM D7647	>640	● 1096	2082	---
Particles >14µm	ASTM D7647	>80	● 105	85	---
Particles >21µm	ASTM D7647	>20	● 34	20	---
Particles >38µm	ASTM D7647	>4	5	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	● 19/17/14	21/18/14	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

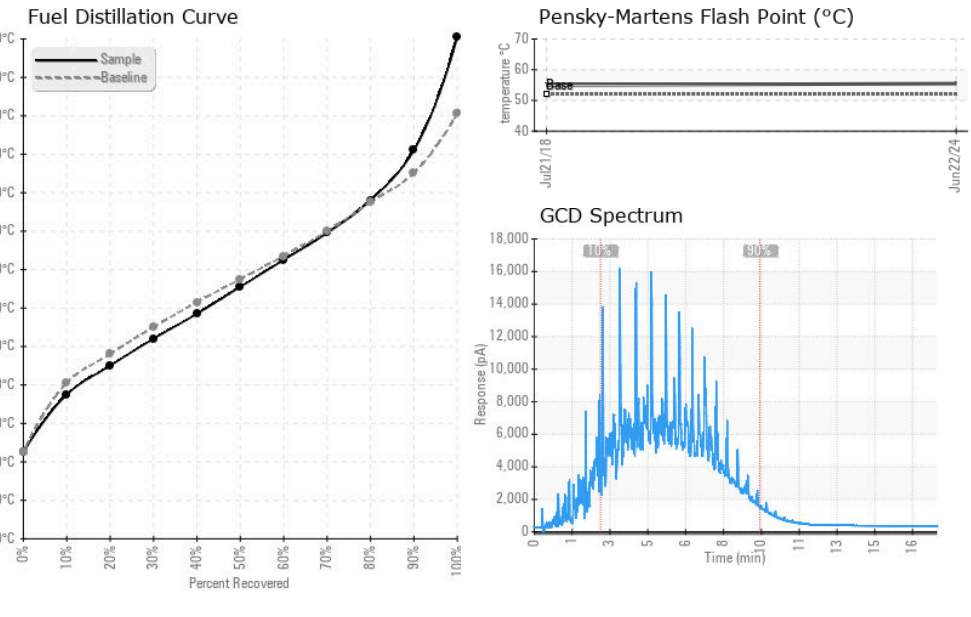


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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0021129
Lab Number : **02644443**
Unique Number : 5801982
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

CUMMINS EASTERN CANADA LP
 3189 SWANSEA CRESCENT
 OTTAWA, ON
 CA K1G 3W5
 Contact: Cindy Harrison
 cindy.harrison@cummins.com
 T: (613)736-1146
 F: x:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.