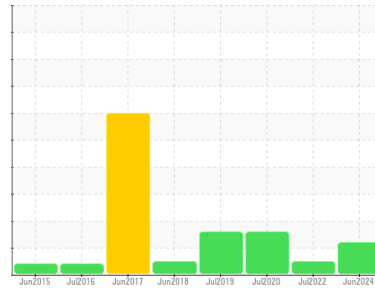




# FUEL REPORT

Sample Rating Trend



ISO



Machine Id

**36409946**

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			<b>CU0023633</b>	CU0018969	CU0016220
Sample Date	Client Info			<b>21 Jun 2024</b>	08 Jul 2022	01 Jul 2020
Machine Age	hrs	Client Info		<b>365</b>	358	0
Sample Status				<b>ATTENTION</b>	NORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	<b>0.827</b>	0.827	0.831
Fuel Color	text	Visual Screen*	Yllow	<b>LtRed</b>	Pink	Pink
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	<b>2.2</b>	2.2	2.1
Pensky-Martens Flash Point	°C	ASTM D7215*	52	<b>54.5</b>	54	63

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	<b>9</b>	11	33

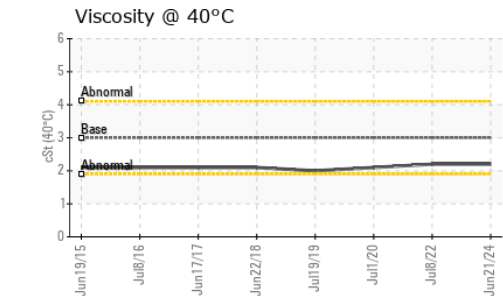
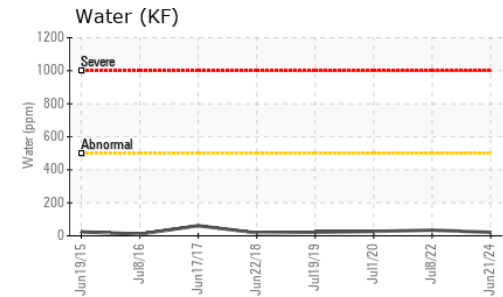
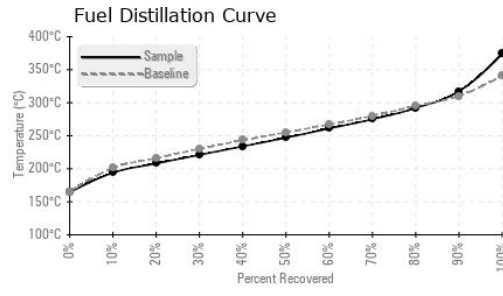
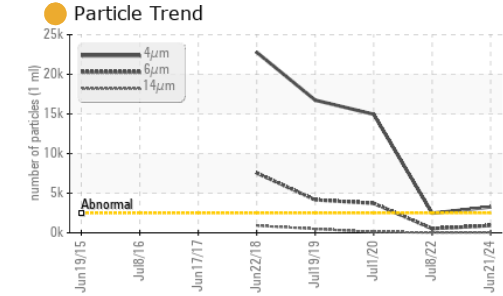
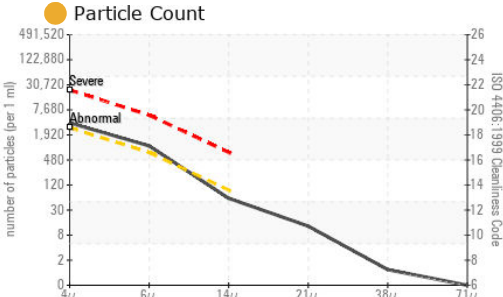
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	<b>164</b>	133	162
5% Distillation Point	°C	ASTM D2887*		<b>186</b>	174	186
10% Distill Point	°C	ASTM D2887*	201	<b>194</b>	188	194
15% Distillation Point	°C	ASTM D2887*		<b>201</b>	198	201
20% Distill Point	°C	ASTM D2887*	216	<b>208</b>	206	207
30% Distill Point	°C	ASTM D2887*	230	<b>221</b>	221	221
40% Distill Point	°C	ASTM D2887*	243	<b>234</b>	235	234
50% Distill Point	°C	ASTM D2887*	255	<b>247</b>	249	247
60% Distill Point	°C	ASTM D2887*	267	<b>261</b>	263	261
70% Distill Point	°C	ASTM D2887*	280	<b>275</b>	278	275
80% Distill Point	°C	ASTM D2887*	295	<b>292</b>	293	291
85% Distillation Point	°C	ASTM D2887*		<b>304</b>	304	301
90% Distill Point	°C	ASTM D2887*	310	<b>317</b>	316	313
95% Distillation Point	°C	ASTM D2887*		<b>339</b>	335	333
Final Boiling Point	°C	ASTM D2887*	341	<b>374</b>	345	352
Distillation Residue	%	ASTM D86(e)*	3.0	---	---	---
Distillation Loss	%	ASTM D86(e)*	3.0	---	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	<b>39</b>	39	---
Cetane Index		ASTM D4737*	<40.0	<b>50</b>	50	48

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	0	0
Water	%	ASTM D6304*	<0.05	<b>0.002</b>	0.003	0.003
ppm Water	ppm	ASTM D6304*	<500	<b>21</b>	34.6	26.4



# FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	● 3261	2475	▲ 14955
Particles >6µm	ASTM D7647	>640	● 918	528	▲ 3720
Particles >14µm	ASTM D7647	>80	● 51	38	● 114
Particles >21µm	ASTM D7647	>20	● 11	10	27
Particles >38µm	ASTM D7647	>4	● 1	2	0
Particles >71µm	ASTM D7647	>3	● 0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	● 19/17/13	18/16/12	▲ 21/19/14

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	<1
Nickel	ppm	ASTM D5185(m)	<0.1	0	0
Lead	ppm	ASTM D5185(m)	<0.1	0	<1
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	<1
Magnesium	ppm	ASTM D5185(m)	<0.1	<1	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	<1
Zinc	ppm	ASTM D5185(m)	<0.1	0	<1

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0023633  
**Lab Number** : 02644073  
**Unique Number** : 5801612  
**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

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.

T: (613)736-1146  
 F: x: