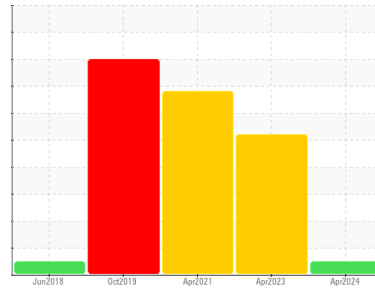




FUEL REPORT

Sample Rating Trend



NORMAL



Area
[103328]
 Machine Id
44437257
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			CU0018669	CU0019831	CU0017544
Sample Date	Client Info			13 Apr 2024	01 Apr 2023	10 Apr 2021
Machine Age	hrs	Client Info		378	360	325
Sample Status				NORMAL	ABNORMAL	SEVERE

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.830	0.832	▲ 0.782
Fuel Color	text	Visual Screen*	Yllow	Red	Pink	Pink
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2	2.2	2.1
Pensky-Martens Flash Point	°C	ASTM D7215*	52	52.8	55.7	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	16	18	32

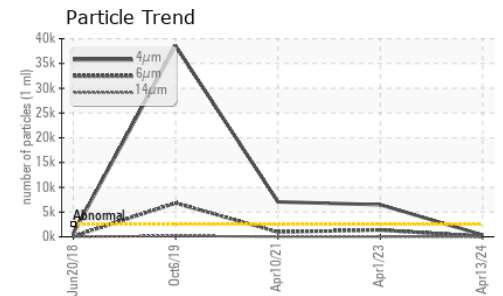
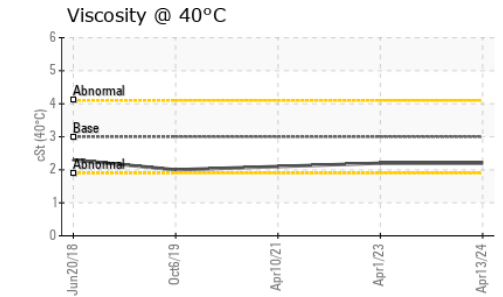
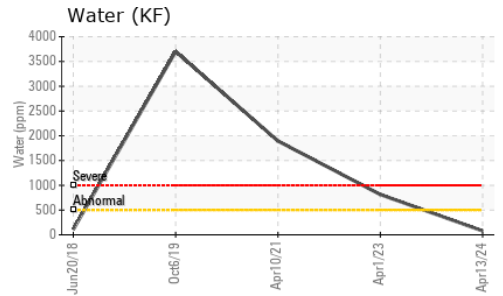
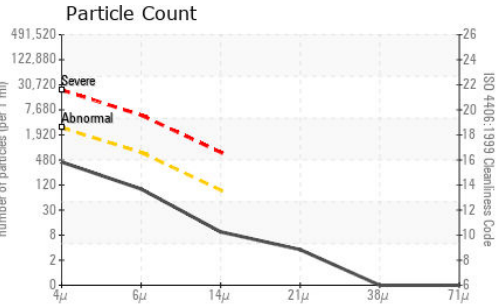
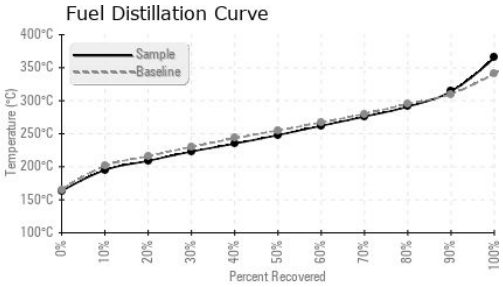
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	163	166	155
5% Distillation Point	°C	ASTM D2887*		186	187	179
10% Distill Point	°C	ASTM D2887*	201	195	195	189
15% Distillation Point	°C	ASTM D2887*		202	202	195
20% Distill Point	°C	ASTM D2887*	216	209	210	202
30% Distill Point	°C	ASTM D2887*	230	223	222	216
40% Distill Point	°C	ASTM D2887*	243	235	234	229
50% Distill Point	°C	ASTM D2887*	255	248	247	243
60% Distill Point	°C	ASTM D2887*	267	262	259	258
70% Distill Point	°C	ASTM D2887*	280	276	272	272
80% Distill Point	°C	ASTM D2887*	295	291	287	288
85% Distillation Point	°C	ASTM D2887*		303	298	298
90% Distill Point	°C	ASTM D2887*	310	314	308	311
95% Distillation Point	°C	ASTM D2887*		335	327	333
Final Boiling Point	°C	ASTM D2887*	341	365	348	365
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	38	38	---
Cetane Index		ASTM D4737*	<40.0	49	48	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<1	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	<1
Water	%	ASTM D6304*	<0.05	0.007	▲ 0.081	▲ 0.189
ppm Water	ppm	ASTM D6304*	<500	79	▲ 813.8	▲ 1894.5



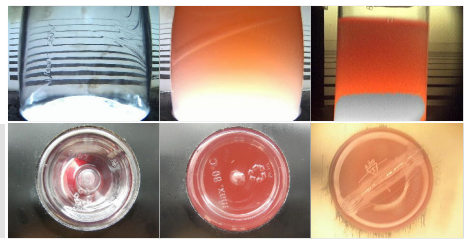
FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	377	▲ 6476	▲ 7055
Particles >6µm	ASTM D7647	>640	85	▲ 1370	● 946
Particles >14µm	ASTM D7647	>80	8	36	27
Particles >21µm	ASTM D7647	>20	3	6	5
Particles >38µm	ASTM D7647	>4	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	16/14/10	▲ 20/18/12	▲ 20/17/12

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	<1
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	<1	1
Magnesium	ppm	ASTM D5185(m)	<0.1	0	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	0	<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. : CU0018669
Lab Number : 02629400
Unique Number : 5762532
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.