



FUEL REPORT

Sample Rating Trend

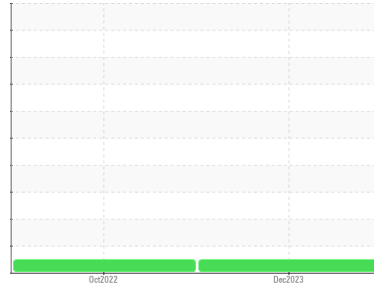
NORMAL



Area
[101782]
Machine Id
5272010051

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.

Corrosion

{not applicable}

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	CU0021103	CU0018960	---
Sample Date	Client Info	11 Dec 2023	12 Oct 2022	---
Machine Age	hrs Client Info	191	112	---
Sample Status		NORMAL	NORMAL	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2	
Specific Gravity	ASTM D1298*	0.839	0.830	0.824	---
Fuel Color	text Visual Screen*	Yellow	Red	Pink	---
Visc @ 40°C	cSt ASTM D7279(m)	3.0	2.3	2.2	---
Pensky-Martens Flash Point	°C ASTM D7215*	52	58.1	58.2	---

SULFUR CONTENT

method	limit/base	current	history1	history2	
Sulfur	ppm ASTM D5185(m)	250	19	23	---

DISTILLATION

method	limit/base	current	history1	history2	
Initial Boiling Point	°C ASTM D2887*	165	167	160	---
5% Distillation Point	°C ASTM D2887*		185	182	---
10% Distill Point	°C ASTM D2887*	201	194	192	---
15% Distillation Point	°C ASTM D2887*		202	200	---
20% Distill Point	°C ASTM D2887*	216	209	207	---
30% Distill Point	°C ASTM D2887*	230	224	223	---
40% Distill Point	°C ASTM D2887*	243	238	237	---
50% Distill Point	°C ASTM D2887*	255	253	251	---
60% Distill Point	°C ASTM D2887*	267	268	266	---
70% Distill Point	°C ASTM D2887*	280	284	282	---
80% Distill Point	°C ASTM D2887*	295	301	298	---
85% Distillation Point	°C ASTM D2887*		314	308	---
90% Distill Point	°C ASTM D2887*	310	326	320	---
95% Distillation Point	°C ASTM D2887*		348	337	---
Final Boiling Point	°C ASTM D2887*	341	378	346	---

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	38	40	---
Cetane Index	ASTM D4737*	<40.0	50	52	---

CONTAMINANTS

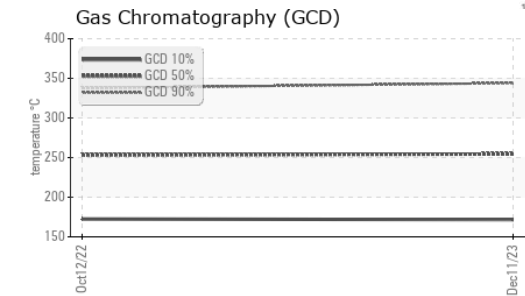
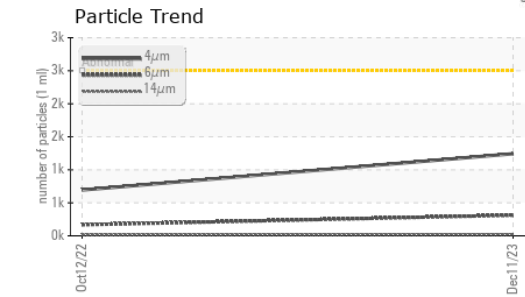
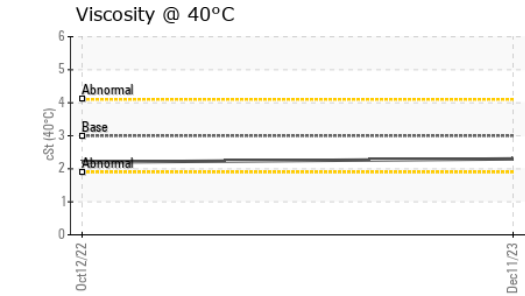
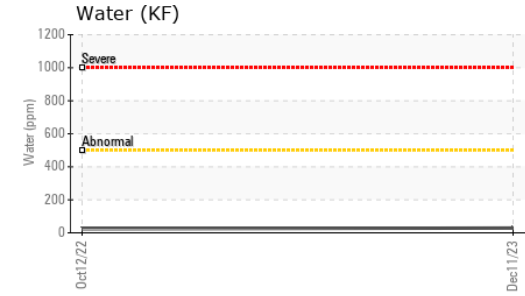
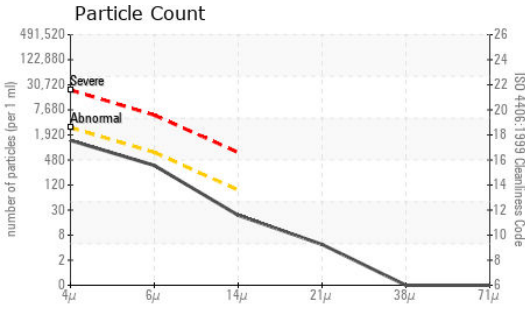
method	limit/base	current	history1	history2	
Silicon	ppm ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm ASTM D5185(m)	<0.1	0	0	---
Potassium	ppm ASTM D5185(m)	<0.1	<1	0	---
Water	% ASTM D6304*	<0.05	0.003	0.002	---
ppm Water	ppm ASTM D6304*	<500	29	24.4	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	1243	694	---
Particles >6µm	ASTM D7647	>640	312	167	---
Particles >14µm	ASTM D7647	>80	20	15	---
Particles >21µm	ASTM D7647	>20	4	5	---
Particles >38µm	ASTM D7647	>4	0	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/11	17/15/11	---

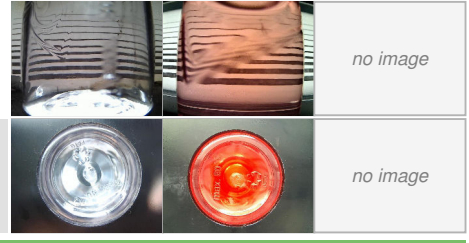


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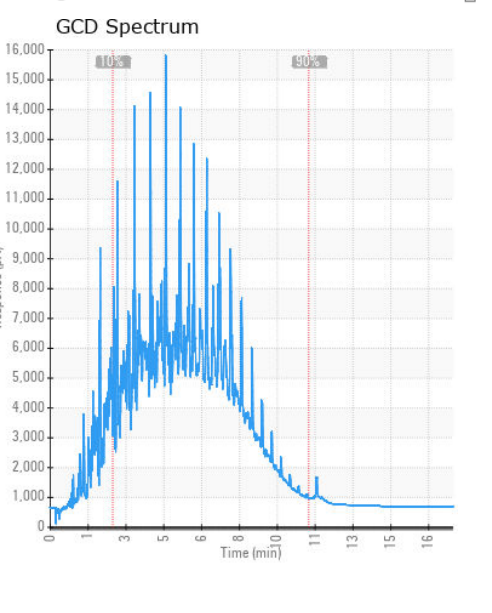
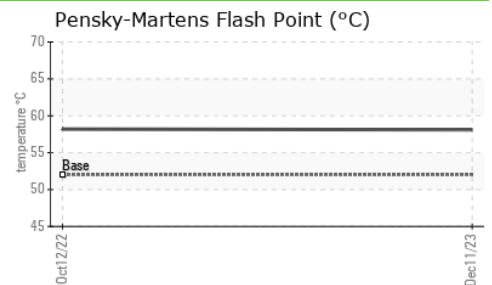
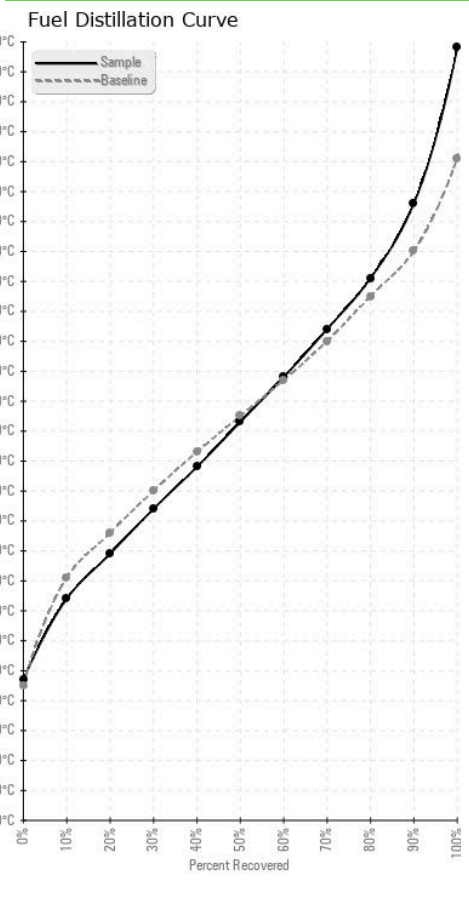


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---
Magnesium	ppm	ASTM D5185(m)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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0021103
Lab Number : 02602692
Unique Number : 5695777
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, 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.