



FUEL REPORT

Sample Rating Trend

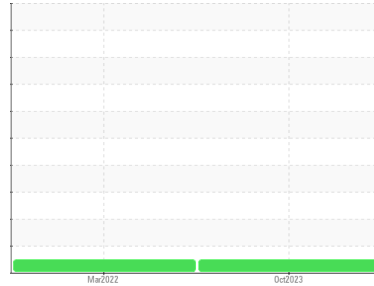
NORMAL



Area
SCHLEGE [148528]
Machine Id
79767233

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. 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 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			CU0021899	CU0019278	---
Sample Date	Client Info			04 Oct 2023	25 Mar 2022	---
Machine Age	hrs	Client Info		126	119	---
Sample Status				NORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.840	0.841	---
Fuel Color	text	Visual Screen*	Yllow	Pink	Pink	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.5	2.6	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	64.9	54.2	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	5	9	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	177	154	---
5% Distillation Point	°C	ASTM D2887*		199	183	---
10% Distill Point	°C	ASTM D2887*	201	208	194	---
15% Distillation Point	°C	ASTM D2887*		215	202	---
20% Distill Point	°C	ASTM D2887*	216	222	210	---
30% Distill Point	°C	ASTM D2887*	230	234	223	---
40% Distill Point	°C	ASTM D2887*	243	246	235	---
50% Distill Point	°C	ASTM D2887*	255	257	248	---
60% Distill Point	°C	ASTM D2887*	267	269	261	---
70% Distill Point	°C	ASTM D2887*	280	282	274	---
80% Distill Point	°C	ASTM D2887*	295	296	288	---
85% Distillation Point	°C	ASTM D2887*		306	297	---
90% Distill Point	°C	ASTM D2887*	310	317	309	---
95% Distillation Point	°C	ASTM D2887*		335	330	---
Final Boiling Point	°C	ASTM D2887*	341	357	344	---

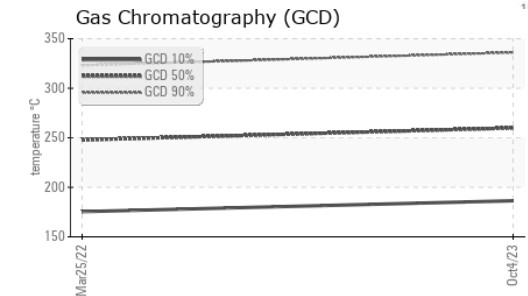
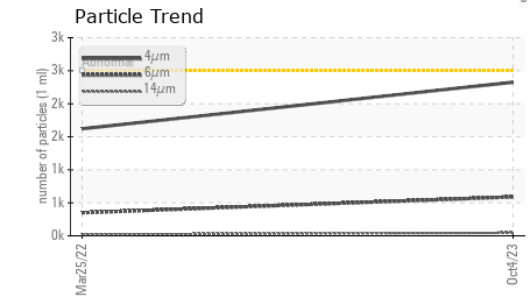
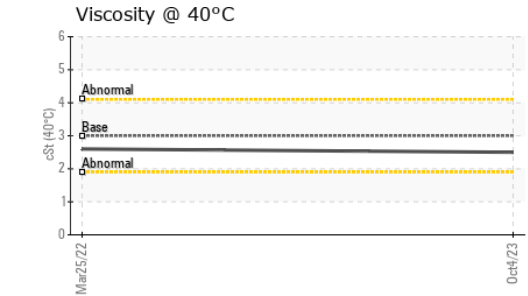
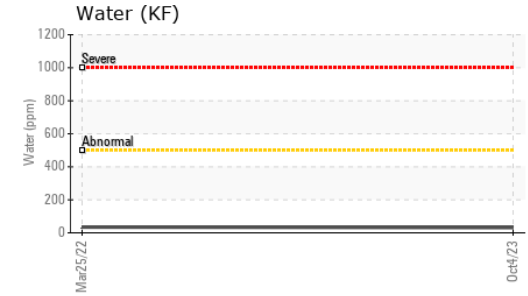
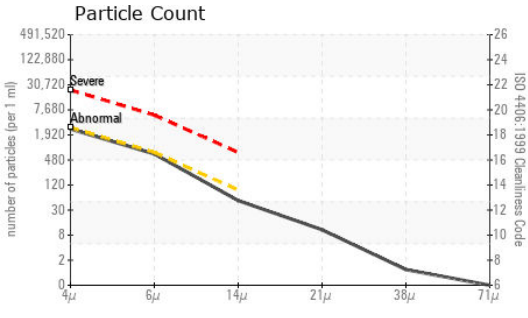
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	36	---
Cetane Index		ASTM D4737*	<40.0	48	45	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	---
Sodium	ppm	ASTM D5185(m)	<0.1	<1	<1	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	---
Water	%	ASTM D6304*	<0.05	0.003	0.003	---
ppm Water	ppm	ASTM D6304*	<500	31.5	34.4	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	2326	1621	---
Particles >6µm		ASTM D7647	>640	589	349	---
Particles >14µm		ASTM D7647	>80	45	20	---
Particles >21µm		ASTM D7647	>20	9	4	---
Particles >38µm		ASTM D7647	>4	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/16/13	18/16/11	---

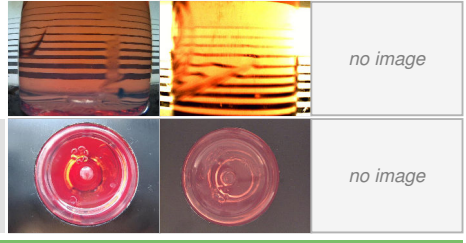


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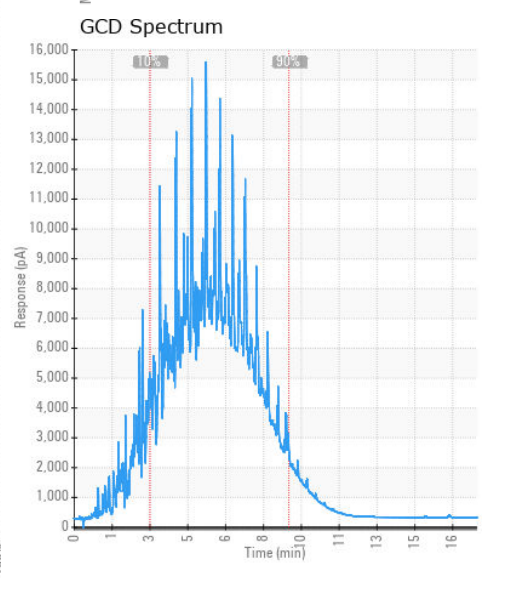
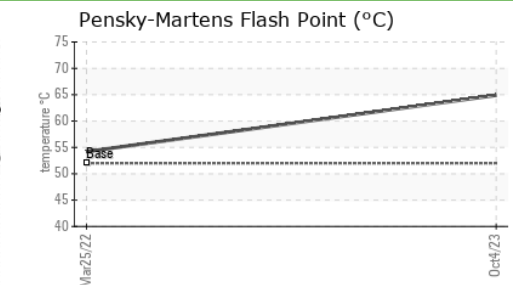
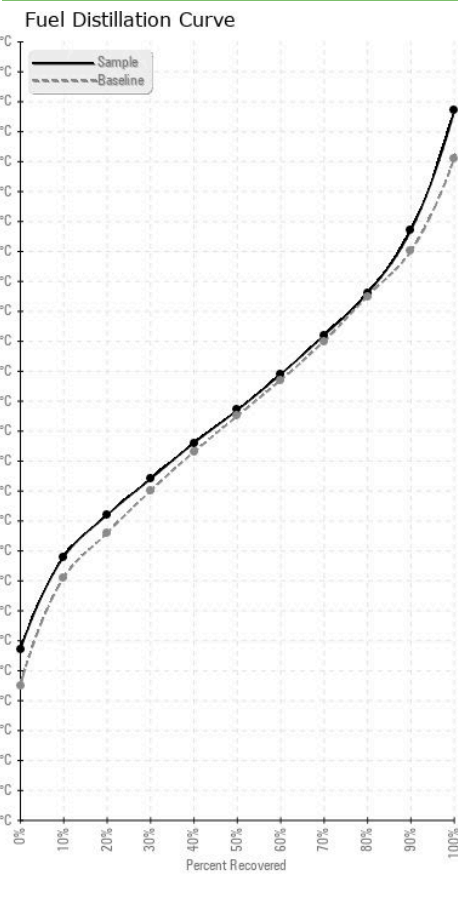


HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<1	<1	---
Calcium	ppm	ASTM D5185(m)	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	0	<1	---
Phosphorus	ppm	ASTM D5185(m)	<1	<1	---
Zinc	ppm	ASTM D5185(m)	<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. : CU0021899 **Received** : 24 Oct 2023 7175 PACIFIC CIRCLE
Lab Number : 02591559 **Diagnosed** : 25 Oct 2023 MISSISSAUGA, ON
Unique Number : 5668638 **Diagnostician** : Kevin Marson CA L5T 2A5
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount) Contact: Elisia Johnson
elisia.johnson@cummins.com
T: (905)795-0050
F: (905)795-9252

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.