



FUEL REPORT

Sample Rating Trend

NORMAL



Area
ELLIS DON [152451]
Machine Id
L210016237

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			CU0021891	---	---
Sample Date	Client Info			21 Jan 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.841	---	---
Fuel Color	text	Visual Screen*	Yllow	Orang	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.4	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	8	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	146	---	---
5% Distillation Point	°C	ASTM D2887*		185	---	---
10% Distill Point	°C	ASTM D2887*	201	200	---	---
15% Distillation Point	°C	ASTM D2887*		209	---	---
20% Distill Point	°C	ASTM D2887*	216	218	---	---
30% Distill Point	°C	ASTM D2887*	230	234	---	---
40% Distill Point	°C	ASTM D2887*	243	248	---	---
50% Distill Point	°C	ASTM D2887*	255	262	---	---
60% Distill Point	°C	ASTM D2887*	267	275	---	---
70% Distill Point	°C	ASTM D2887*	280	289	---	---
80% Distill Point	°C	ASTM D2887*	295	306	---	---
85% Distillation Point	°C	ASTM D2887*		316	---	---
90% Distill Point	°C	ASTM D2887*	310	327	---	---
95% Distillation Point	°C	ASTM D2887*		341	---	---
Final Boiling Point	°C	ASTM D2887*	341	372	---	---

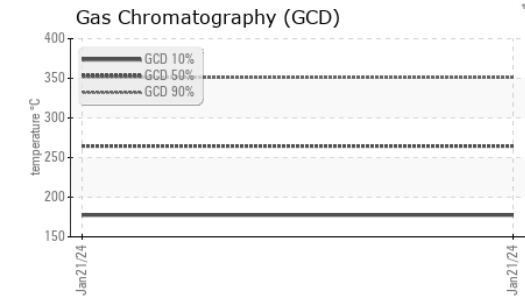
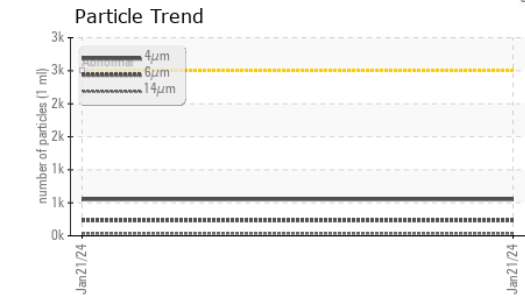
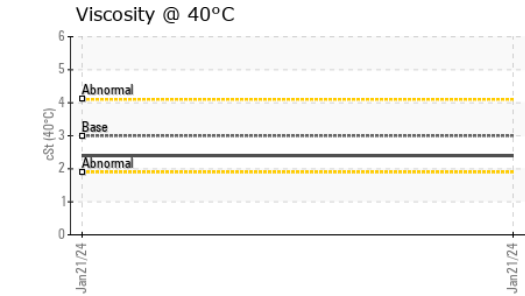
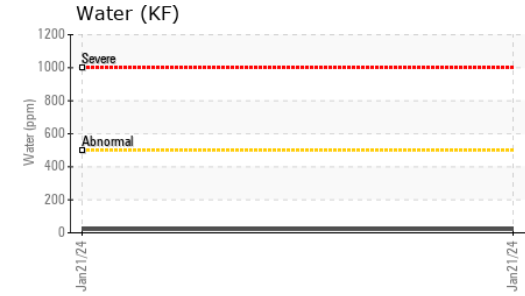
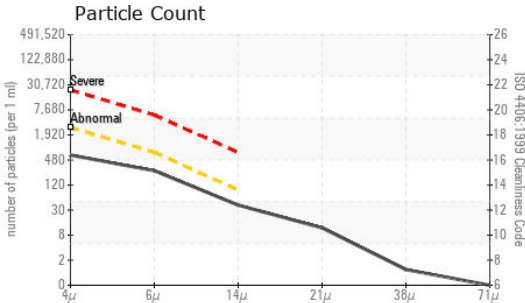
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	---	---
Cetane Index		ASTM D4737*	<40.0	48	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	1	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	0	---	---
Water	%	ASTM D6304*	<0.05	0.002	---	---
ppm Water	ppm	ASTM D6304*	<500	22	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	553	---	---
Particles >6µm		ASTM D7647	>640	233	---	---
Particles >14µm		ASTM D7647	>80	35	---	---
Particles >21µm		ASTM D7647	>20	10	---	---
Particles >38µm		ASTM D7647	>4	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/12	---	---



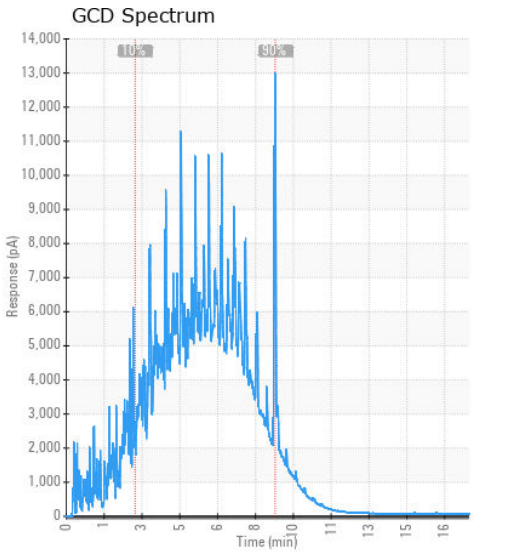
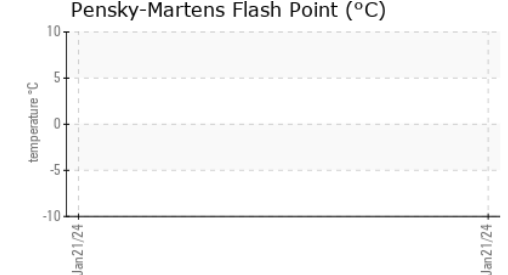
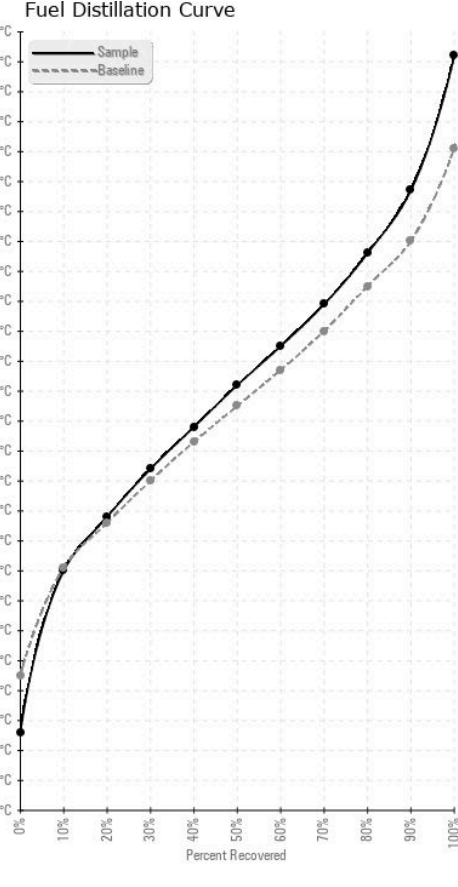
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HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	0	---
Calcium	ppm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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CUMMINS CANADA ULC - GENERATOR DIVISION
Sample No. : CU0021891 **Received** : 22 Jan 2024 **7175 PACIFIC CIRCLE**
Lab Number : 02610480 **Diagnosed** : 24 Jan 2024 **MISSISSAUGA, ON**
Unique Number : 5711566 **Diagnostician** : Kevin Marson **CA L5T 2A5**
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount) **Contact: Elisia Johnson**
 To discuss this sample report, contact Customer Service at 1-800-268-2131. **elisia.johnson@cummins.com**
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. **T: (905)795-0050**
 Validity of results and interpretation are based on the sample and information as supplied. **F: (905)795-9252**