



# FUEL REPORT

Sample Rating Trend



**WATER**



Area

[LNR B2B CUMMINS]

Machine Id

**C-2-D**

Component

**Bulk Tank Diesel Fuel**

Fluid

**DIESEL FUEL No. 2 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Corrosion

All metal levels are normal indicating no corrosion in the system.

### ▲ Contaminants

Free water present. Moderate concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0914201</b>	---	---
Sample Date	Client Info			<b>27 Mar 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		<b>Red</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445	4.1	<b>2.46</b>	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>61.4</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>0</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>9</b>	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>172</b>	---	---
5% Distillation Point	°C	ASTM D86		<b>194</b>	---	---
10% Distill Point	°C	ASTM D86		<b>204</b>	---	---
15% Distillation Point	°C	ASTM D86		<b>212</b>	---	---
20% Distill Point	°C	ASTM D86		<b>219</b>	---	---
30% Distill Point	°C	ASTM D86		<b>234</b>	---	---
40% Distill Point	°C	ASTM D86		<b>247</b>	---	---
50% Distill Point	°C	ASTM D86		<b>260</b>	---	---
60% Distill Point	°C	ASTM D86		<b>274</b>	---	---
70% Distill Point	°C	ASTM D86		<b>288</b>	---	---
80% Distill Point	°C	ASTM D86		<b>303</b>	---	---
85% Distillation Point	°C	ASTM D86		<b>314</b>	---	---
90% Distill Point	°C	ASTM D86		<b>325</b>	---	---
95% Distillation Point	°C	ASTM D86		<b>343</b>	---	---
Final Boiling Point	°C	ASTM D86		<b>357</b>	---	---

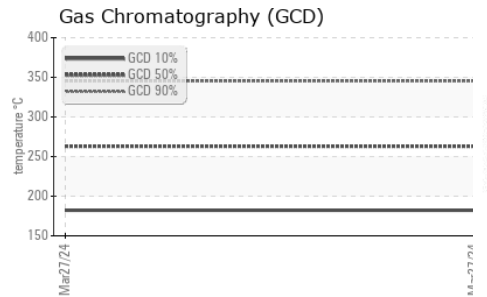
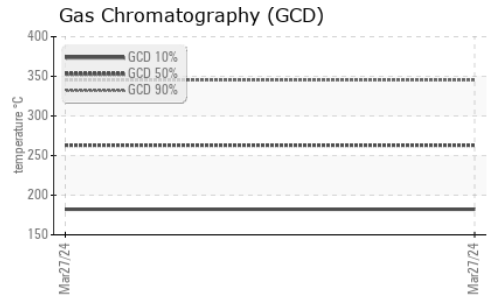
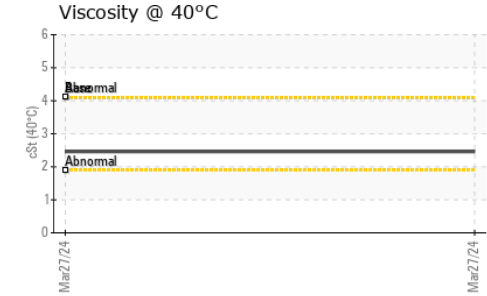
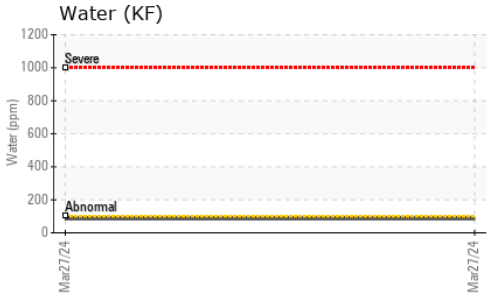
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>37</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>49</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Water	%	ASTM D6304	<0.05	<b>0.008</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>86</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---	---

MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	<b>0</b>	---	---
Yeast	CFU/ml	WC-Method	>=100000	<b>0</b>	---	---
Mold	Colonies	WC-Method	MODER	<b>---</b>	---	---



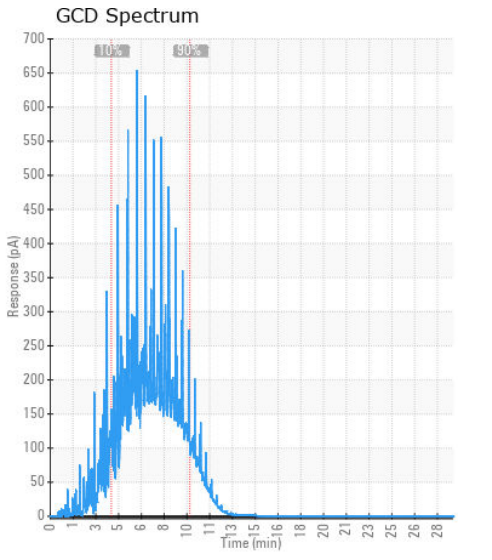
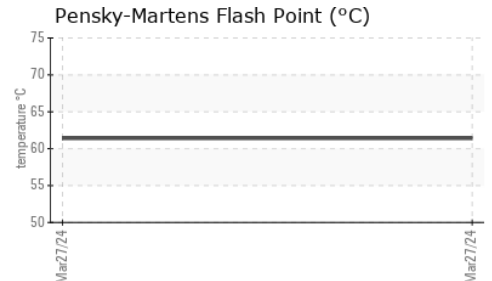
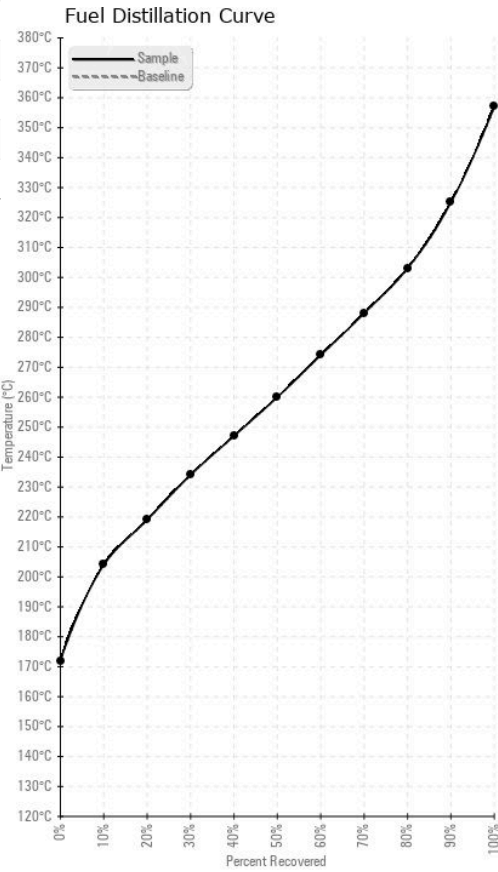
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	0	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	---	---
Magnesium	ppm	ASTM D5185m	<0.1	0	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	---	---
Zinc	ppm	ASTM D5185m	<0.1	0	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0914201      **Received** : 03 Apr 2024  
**Lab Number** : 06138209      **Tested** : 15 Apr 2024  
**Unique Number** : 10963017      **Diagnosed** : 15 Apr 2024 - Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: Bacteria, Fuel, Screen )

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)