



FUEL REPORT

Sample Rating Trend



NORMAL



Area

CITY OF ROCK HILL [17803]

Machine Id

[CITY OF ROCK HILL] FIRE DEPT 6

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (660 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

Corrosion

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

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0957763	---	---
Sample Date	Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Sample Status			NORMAL	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yellow	Red	---
ASTM Color	scalar	*ASTM D1500		L4.0	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	66.1	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	8	---
Sulfur (UVF)	ppm	ASTM D5453		20	---

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	177	---
5% Distillation Point	°C	ASTM D86		198	---
10% Distill Point	°C	ASTM D86	201	207	---
15% Distillation Point	°C	ASTM D86		214	---
20% Distill Point	°C	ASTM D86	216	221	---
30% Distill Point	°C	ASTM D86	230	235	---
40% Distill Point	°C	ASTM D86	243	248	---
50% Distill Point	°C	ASTM D86	255	261	---
60% Distill Point	°C	ASTM D86	267	274	---
70% Distill Point	°C	ASTM D86	280	288	---
80% Distill Point	°C	ASTM D86	295	303	---
85% Distillation Point	°C	ASTM D86		314	---
90% Distill Point	°C	ASTM D86	310	325	---
95% Distillation Point	°C	ASTM D86		344	---
Final Boiling Point	°C	ASTM D86	341	358	---

IGNITION QUALITY

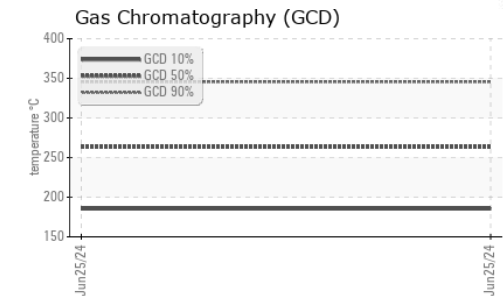
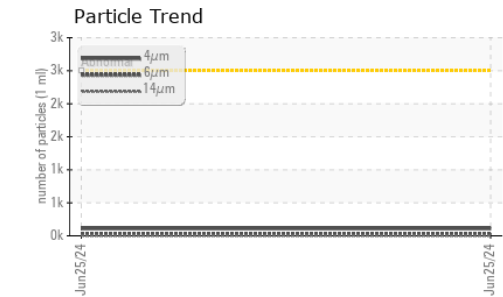
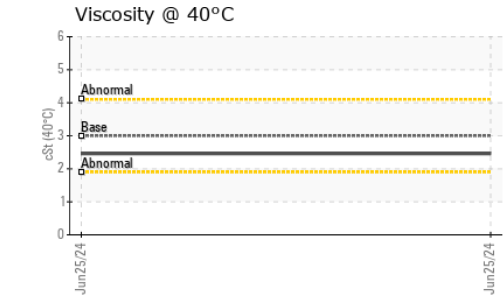
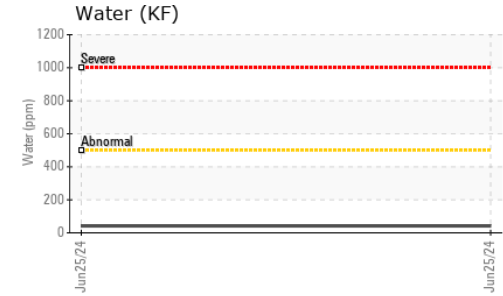
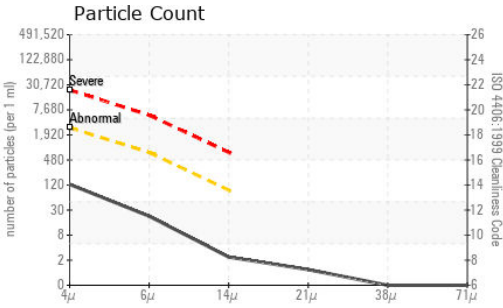
	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36	---
Cetane Index		ASTM D4737	<40.0	48	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---
Sodium	ppm	ASTM D5185m	<0.1	1	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---
Water	%	ASTM D6304	<0.05	0.004	---
ppm Water	ppm	ASTM D6304	<500	42	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	---



FUEL REPORT

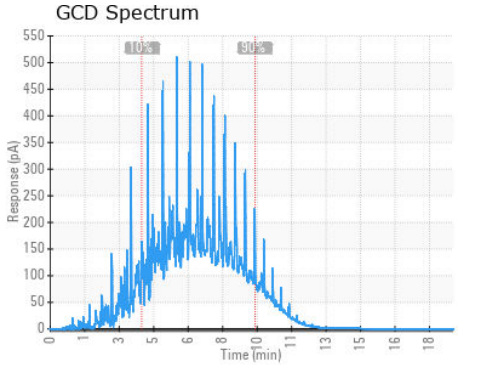
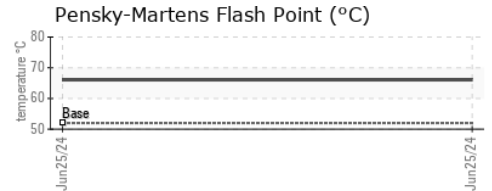
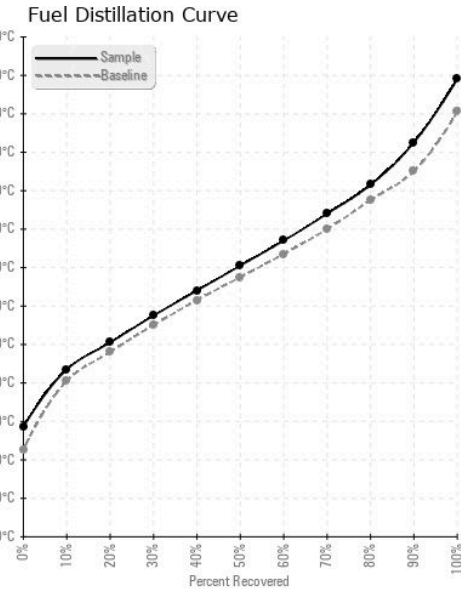


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	110	---	---
Particles >6µm	ASTM D7647	>640	19	---	---
Particles >14µm	ASTM D7647	>80	2	---	---
Particles >21µm	ASTM D7647	>20	1	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	14/11/9	---	---

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	<1	---	---
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	<1	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0957763
Lab Number : **06220285**
Unique Number : 11098482
Test Package : DF-2 (Additional Tests: Fuel, Screen)
Received : 25 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 28 Jun 2024 - Elizabeth Valachovic

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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)