

# Area **CITY OF ROCK HILL [17802]** [CITY OF ROCK HILL] DUTCHMAN

**Diesel Fuel** Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (755 GAL)

# DIAGNOSIS

#### Recommendation

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

#### Corrosion

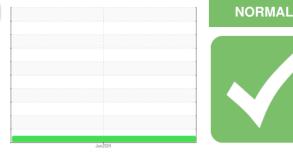
All metal levels are normal indicating no corrosion in the system.

## 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. Sulfur level is acceptable for ULSD specification.



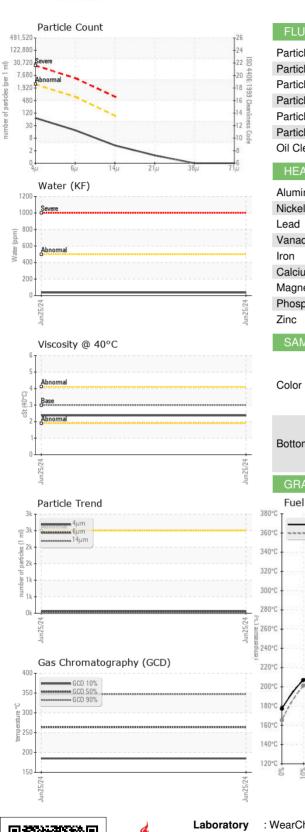
Sample Rating Trend



SAMPLE INFORM	IATI <u>ON</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0957766		
Sample Date		Client Info		25 Jun 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.37		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	65.8		
SULFUR CONTEN	١T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		9		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	177		
5% Distillation Point	°C	ASTM D86		197		
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	275		
70% Distill Point	°C	ASTM D86	280	289		
80% Distill Point	°C	ASTM D86	295	304		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86	310	326		
95% Distillation Point	°C	ASTM D86	0.44	345		
Final Boiling Point	°C	ASTM D86	341	359		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
Cetane Index		ASTM D4737	<40.0	49		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	<0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	36		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



# FUEL REPORT



UID CLEANLIN	ESS	method	limit/base	current	history1	history2
cles >4µm		ASTM D7647	>2500	62		
cles >6µm		ASTM D7647	>640	16		
cles >14µm		ASTM D7647	>80	3		
cles >21µm		ASTM D7647	>20	1		
cles >38µm		ASTM D7647	>4	0		
cles >71µm		ASTM D7647	>3	0		
leanliness		ISO 4406 (c)	>18/16/13	13/11/9		
AVY METALS		method	limit/base	current	history1	history2
iinum	ppm	ASTM D5185m	<0.1	0		
əl	ppm	ASTM D5185m	<0.1	0		
	ppm	ASTM D5185m	<0.1	0		
adium	ppm	ASTM D5185m	<0.1	<1		
	ppm	ASTM D5185m	<0.1	0		
um	ppm	ASTM D5185m	<0.1	0		
nesium	ppm	ASTM D5185m	<0.1	0		
phorus	ppm	ASTM D5185m	<0.1	<1		
	ppm	ASTM D5185m	<0.1	0		
MPLE IMAGES	\$	method	limit/base	current	history1	history2
r					no image	no image
om					no image	no image
APHS						
l Distillation Cu	rve			Pensky-Marte	ns Flash Point (	°C)
Sample Sample				70		
			The state	50 -		
			// <sup>19</sup>	50		
		1	1-	Jun25/24		Jun 25/24
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PETROLEUM RECOVERY SERVICES : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0957766 Sample No. Received : 25 Jun 2024 210 POWELL DR Lab Number : 06220284 Tested : 28 Jun 2024 SUMMERVILLE, SC Unique Number : 11098481 Diagnosed : 28 Jun 2024 - Elizabeth Valachovic Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: AJAY EL Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Ajay@prsfuel.com \* - 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)

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Time (min)

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Contact/Location: AJAY EL - PETSUM

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