

### **FUEL REPORT**

# Carilion Roanoke Community Hospital [4598] [Carilion Roanoke Community Hospital] PARKING

**Diesel Fuel** 

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (500 GAL)

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

#### Corrosion

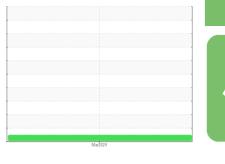
All metal levels are normal indicating no corrosion in the system.

#### 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 indicated 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

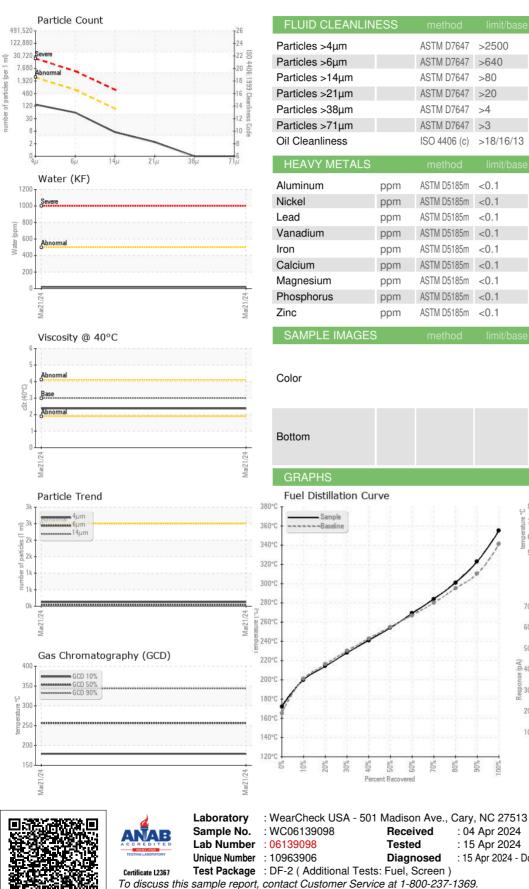


NORMAL

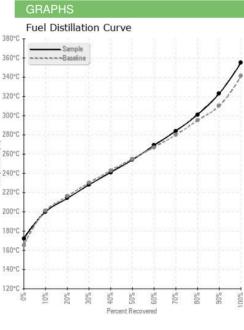
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06139098		
Sample Date		Client Info		21 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	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	60.8		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	11		
Sulfur (UVF)	ppm	ASTM D5453		15		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	172		
5% Distillation Point	°C	ASTM D86		192		
10% Distill Point	°C	ASTM D86	201	200		
15% Distillation Point	°C	ASTM D86		207		
20% Distill Point	°C	ASTM D86	216	214		
30% Distill Point	°C	ASTM D86	230	228		
40% Distill Point	°C	ASTM D86	243	241		
50% Distill Point	°C	ASTM D86	255	254		
60% Distill Point	°C	ASTM D86	267	269		
70% Distill Point	°C	ASTM D86	280	284		
80% Distill Point	°C	ASTM D86	295	301		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86	310	323		
95% Distillation Point	°C	ASTM D86		341		
Final Boiling Point	°C	ASTM D86	341	355		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	38		
Cetane Index		ASTM D4737	<40.0	49		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.002		
ppm Water	ppm	ASTM D6304	<500	21		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



## FUEL REPORT



LUID CLEANLI	NESS	method	limit/base	current	history1	history2
rticles >4µm		ASTM D7647	>2500	126		
rticles >6µm		ASTM D7647	>640	52		
rticles >14µm		ASTM D7647	>80	6		
rticles >21µm		ASTM D7647	>20	2		
rticles >38µm		ASTM D7647	>4	0		
rticles >71µm		ASTM D7647	>3	0		
Cleanliness		ISO 4406 (c)	>18/16/13	14/13/10		
IEAVY METALS	;	method	limit/base	current	history1	history2
uminum	ppm	ASTM D5185m	<0.1	0		
ckel	ppm	ASTM D5185m	<0.1	0		
ad	ppm	ASTM D5185m	<0.1	0		
nadium	ppm	ASTM D5185m	<0.1	0		
n	ppm	ASTM D5185m	<0.1	0		
ılcium	ppm	ASTM D5185m	<0.1	0		
agnesium	ppm	ASTM D5185m	<0.1	0		
osphorus	ppm	ASTM D5185m	<0.1	0		
าด	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
lor					no image	no image
ttom				$(\bigcirc)$	no image	no image
GRAPHS						
uel Distillation C	urve			Pensky-Marte	ns Flash Point (	°C)
Sample			ې <sup>8</sup>	0		
Baseline				0		
			tempe	Base		



Received

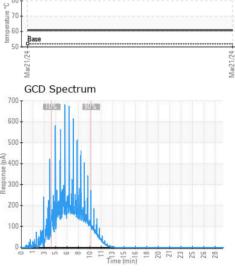
Diagnosed

Tested

: 04 Apr 2024

: 15 Apr 2024

: 15 Apr 2024 - Doug Bogart



\* - 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)

PETROLEUM RECOVERY SERVICES 210 POWELL DR SUMMERVILLE, SC US 29483 Contact: AJAY EL Ajay@prsfuel.com T: (843)225-1777 E:

Report Id: PETSUM [WUSCAR] 06139098 (Generated: 05/27/2024 14:42:20) Rev: 1

Contact/Location: AJAY EL - PETSUM