

## FUEL REPORT

### Area Carilion Roanoke Community Hospital [4596] [Carilion Roanoke Community Hospital] DT1

**Diesel Fuel** 

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (100 GAL)

### DIAGNOSIS

#### Recommendation

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

#### Corrosion

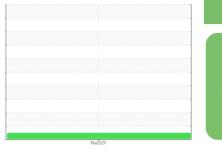
All metal levels are normal indicating no corrosion in the system.

#### 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 Rating Trend

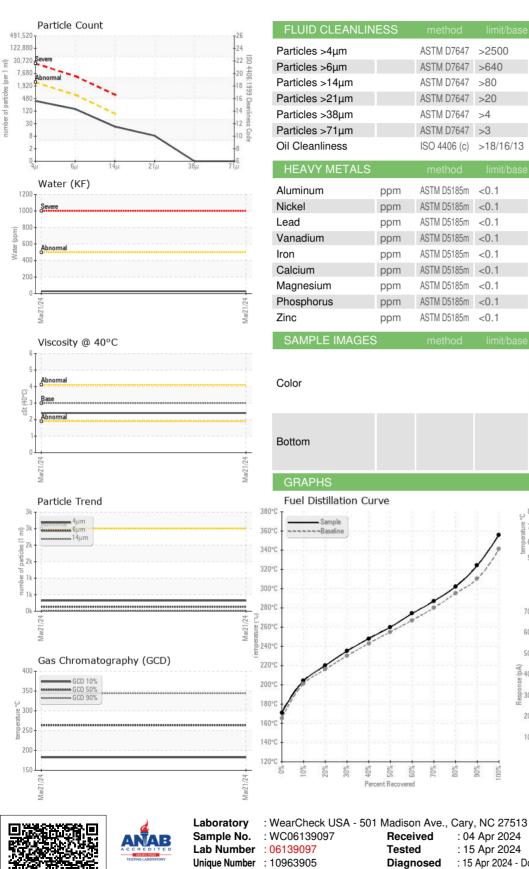


NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06139097		
Sample Date		Client Info		21 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	6 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	2.4		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61.2		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	106		
Sulfur (UVF)	ppm	ASTM D5453		86		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86	201	204		
15% Distillation Point	°C	ASTM D86		212		
20% Distill Point	°C	ASTM D86	216	220		
30% Distill Point	°C	ASTM D86	230	235		
40% Distill Point	°C	ASTM D86	243	248		
50% Distill Point	°C	ASTM D86	255	260		
60% Distill Point	°C	ASTM D86	267	274		
70% Distill Point	°C	ASTM D86	280	287		
80% Distill Point	°C	ASTM D86	295	302		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86	310	324		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86	341	356		
IGNITION QUALI	ΓY	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	0		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	28		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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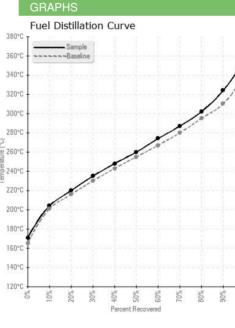
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
articles >4µm		ASTM D7647	>2500	322		
articles >6μm		ASTM D7647	>640	133		
articles >14µm		ASTM D7647	>80	19		
articles >21µm		ASTM D7647	>20	7		
articles >38µm		ASTM D7647	>4	0		
articles >71µm		ASTM D7647	>3	0		
il Cleanliness		ISO 4406 (c)	>18/16/13	16/14/11		
HEAVY METALS		method	limit/base	current	history1	history2
luminum	ppm	ASTM D5185m	<0.1	0		
ickel	ppm	ASTM D5185m	<0.1	0		
ead	ppm	ASTM D5185m	<0.1	0		
anadium	ppm	ASTM D5185m	<0.1	0		
on	ppm	ASTM D5185m	<0.1	0		
alcium	ppm	ASTM D5185m	<0.1	0		
agnesium	ppm	ASTM D5185m	<0.1	<1		
hosphorus	ppm	ASTM D5185m	<0.1	0		
inc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
olor					no image	no image
ottom				$\bigcirc$	no image	no image
GRAPHS						
Fuel Distillation Cu	rve		2 88 09 09 00 00 00 00 00 00 00 00 00 00 00	Base	ns Flash Point (	°C)
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%00

: 04 Apr 2024

: 15 Apr 2024

: 15 Apr 2024 - Doug Bogart



Received

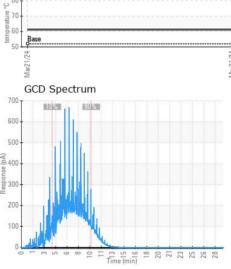
Diagnosed

Tested

Test Package : DF-2 (Additional Tests: Fuel, Screen)

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

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



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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: PETSUM [WUSCAR] 06139097 (Generated: 05/27/2024 14:42:10) Rev: 1

Certificate 12367

Contact/Location: AJAY EL - PETSUM

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