

## **FUEL REPORT**

# UNC ROCKINGHAM - GEN 1

Component **Diesel Fuel** 

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

# Sample Rating Trend **NORMAL**

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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.

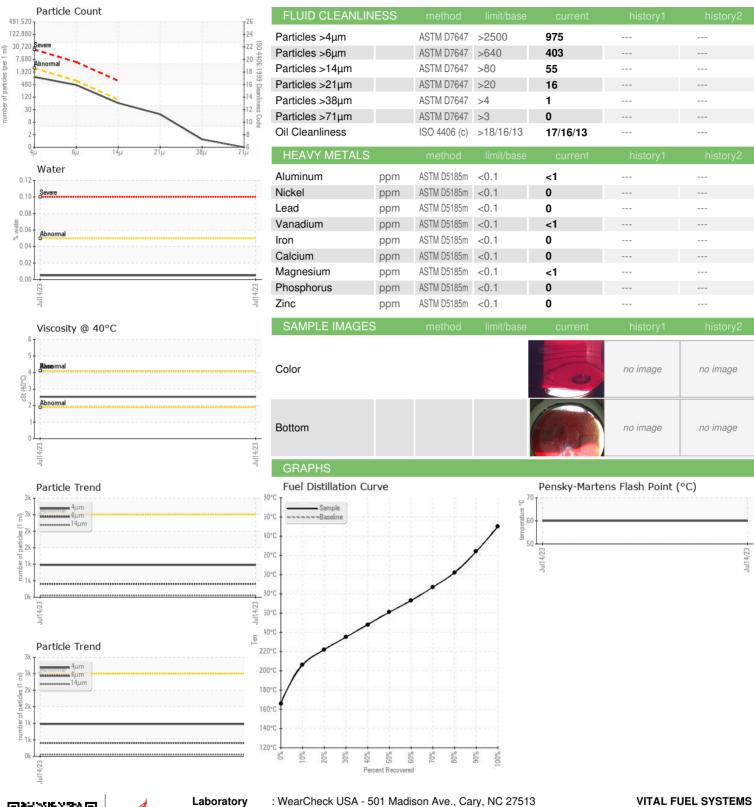
#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation.

				Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0787038		
Sample Date		Client Info		14 Jul 2023		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.849		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.53		
Pensky-Martens Flash Point	°C	*PMCC Calculated		60		
SULFUR CONTE	NΤ	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		1100		
Sulfur (UVF)	ppm	ASTM D5453		915		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		166		
5% Distillation Point	°C	ASTM D86		195		
10% Distill Point	°C	ASTM D86		206		
15% Distillation Point	°C	ASTM D86		214		
20% Distill Point	°C	ASTM D86		222		
30% Distill Point	°C	ASTM D86		235		
40% Distill Point	°C	ASTM D86		248		
50% Distill Point	°C	ASTM D86		261		
60% Distill Point	°C	ASTM D86		273		
70% Distill Point	°C	ASTM D86		287		
80% Distill Point	°C	ASTM D86		302		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86		324		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86		350		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.9		
IGNITION QUALIT	Υ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	40.0	35.2		
Cetane Index		ASTM D4737		43.0		
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	0.005		
ppm Water	ppm	ASTM D6304	<500	56.9		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



### **FUEL REPORT**





Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0787038 : 05902709

Received Diagnosed : 10564065

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

: 19 Jul 2023 : 26 Jul 2023 Diagnostician : Doug Bogart

US 27539 Contact: JOHN MORREALE jmorreale@vitalfuelsystems.com

T: (919)629-8180

1076 CLASSIC RD

APEX, NC

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) F: (919)303-7399 Contact/Location: JOHN MORREALE - VITAPE