

FUEL REPORT

UNC ROCKINGHAM - GEN 2

Component **Diesel Fuel**

DIESEL FUEL No. 2 (--- GAL)

Sample Rating Trend ISO

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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

There is a moderate amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

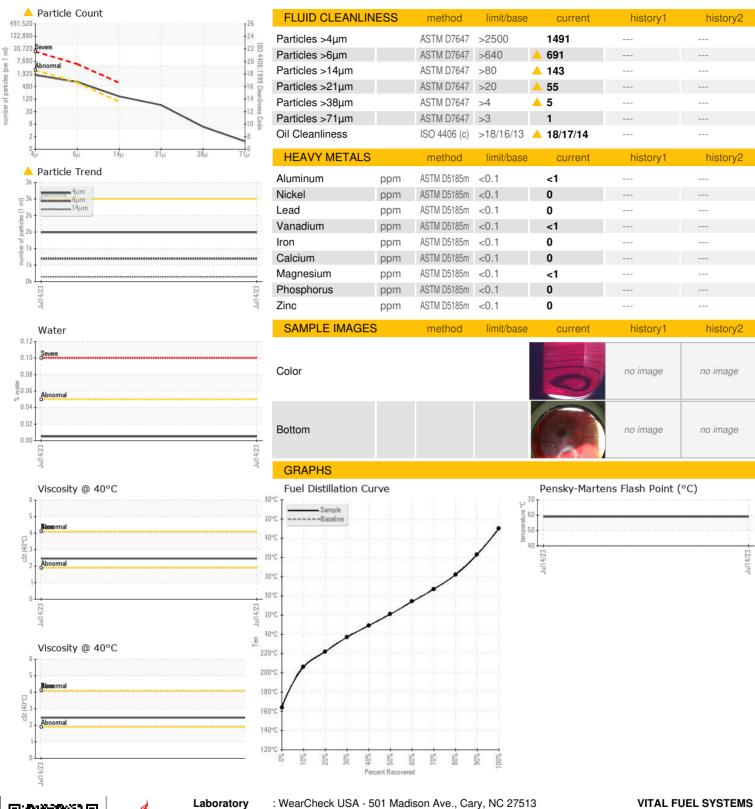
Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

				Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0787037		
Sample Date		Client Info		14 Jul 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	EDTIES	method	limit/base	ou was not	hiotomut	hiotom (O
	ENTIES		IIIIII/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	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated		59		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		1092		
Sulfur (UVF)	ppm	ASTM D5453		916		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		164		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86		206		
15% Distillation Point	°C	ASTM D86		215		
20% Distill Point	°C	ASTM D86		222		
30% Distill Point	°C	ASTM D86		237		
40% Distill Point	°C	ASTM D86		249		
50% Distill Point	°C	ASTM D86		261		
60% Distill Point	°C	ASTM D86		274		
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		323		
95% Distillation Point	°C	ASTM D86		341		
Final Boiling Point	°C	ASTM D86		350		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.7		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.2		
Cetane Index		ASTM D4737	<40.0	43.4		
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	58.8		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT





Laboratory Sample No. Lab Number **Unique Number**

: WC0787037 : 05902711

Received : 10564067

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

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

1076 CLASSIC RD APEX, NC US 27539 Contact: JOHN MORREALE

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jmorreale@vitalfuelsystems.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)

T: (919)629-8180 F: (919)303-7399