

### **FUEL REPORT**

# Sample Rating Trend ISO

## UNC ROCKINGHAM - CANCER CENTER

Component **Diesel Fuel** 

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

#### **DIAGNOSIS**

#### Recommendation

Recommend pre-filtering before use. 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

There is a high 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. Sulfur level is acceptable for ULSD specification.

				Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0787042		
Sample Date		Client Info		14 Jul 2023		
Machine Age	hrs	Client Info		0		
Sample Status	1110	Oliotic IIIIo		ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
	LITTILO		IIIIII/Dase	0.842	Thistory	HIStory2
Specific Gravity Fuel Color	tovt	*ASTM D1298				
ASTM Color	text	*Visual Screen		Red		
	scalar	*ASTM D1500	1 1	L4.5 2.54		
Visc @ 40°C	cSt	ASTM D445	4.1			
Pensky-Martens Flash Point	°C	*PMCC Calculated		58		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		161		
5% Distillation Point	°C	ASTM D86		188		
10% Distill Point	°C	ASTM D86		201		
15% Distillation Point	°C	ASTM D86		210		
20% Distill Point	°C	ASTM D86		219		
30% Distill Point	°C	ASTM D86		234		
40% Distill Point	°C	ASTM D86		248		
50% Distill Point	°C	ASTM D86		262		
60% Distill Point	°C	ASTM D86		277		
70% Distill Point	°C	ASTM D86		292		
80% Distill Point	°C	ASTM D86		309		
85% Distillation Point	°C	ASTM D86		319		
90% Distill Point	°C	ASTM D86		331		
95% Distillation Point	°C	ASTM D86		351		
Final Boiling Point	°C	ASTM D86		354		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		1.8		
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.6		
Cetane Index		ASTM D4737	<40.0	48.2		
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	0.004		
ppm Water	ppm	ASTM D6304	<500	46.2		
% 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** 

: WC0787042 : 05902710

: 10564066

Received Diagnosed

: 26 Jul 2023 Diagnostician : Doug Bogart

: 19 Jul 2023

Test Package : DF-2 ( Additional Tests: 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**VITAL FUEL SYSTEMS** 

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