

**FUEL REPORT** 

Machine Id **ZDC AST 36 IN** 

Diesel Fuel

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

# Sample Rating Trend ISO

## **DIAGNOSIS**

#### Recommendation

We advise that you filter this fluid 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

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

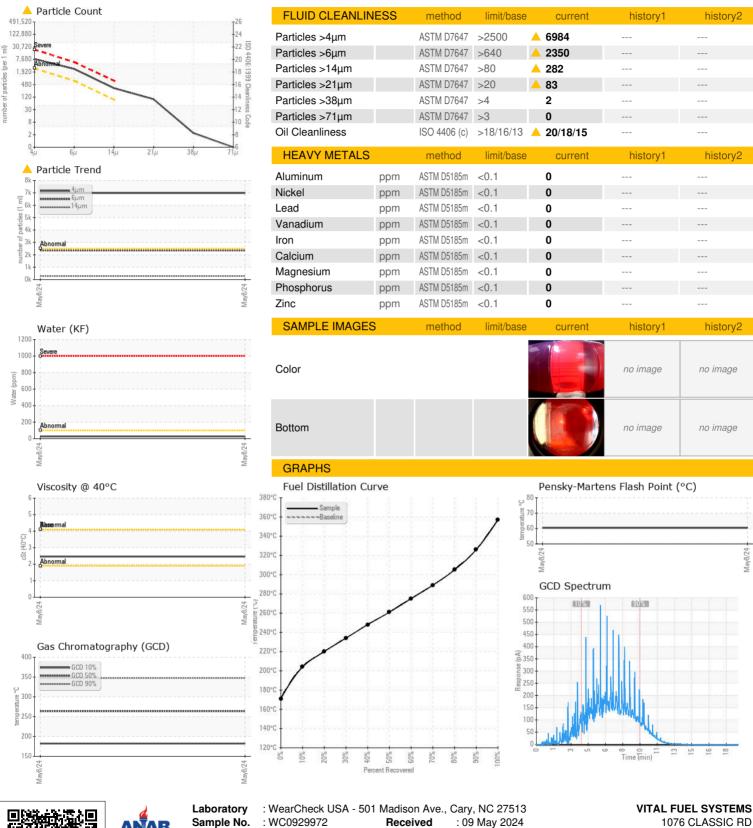
#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

			'	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929972		
Sample Date		Client Info		08 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
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		60.4		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		12		
,	1-1		Line it //-		history	history O
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		171		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86		204		
15% Distillation Point		ASTM D86		212		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		234		
40% Distill Point	°C	ASTM D86		248		
50% Distill Point	°C	ASTM D86		261		
60% Distill Point	°C	ASTM D86		275		
70% Distill Point	°C	ASTM D86		289		
80% Distill Point	°C	ASTM D86		305		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86		326		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86		357		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		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	26		
% Gasoline	%	*In-House	< 0.50	2.2		
% Biodiesel	%	*In-House	<20.0	0.0		



# **FUEL REPORT**





Certificate 12367

Sample No.

Lab Number : 06174984

: WC0929972 Unique Number : 11021037

Received **Tested** Diagnosed

: 14 May 2024

: 14 May 2024 - Doug Bogart

Test Package : DF-2 ( Additional Tests: Fuel, Screen ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: SERVICE service@vitalfuelsystems.com T: (919)629-8180

\* - 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: SERVICE ? - VITAPE

APEX, NC

US 27539