

# **FUEL REPORT**

# Area QTS ATLANTA GA DC1 [4760] [QTS ATLANTA GA DC1] GF1

**Diesel Fuel** 

#### Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (4200 GAL)

# DIAGNOSIS

### Recommendation

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

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fuel.

## **Fuel Condition**

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



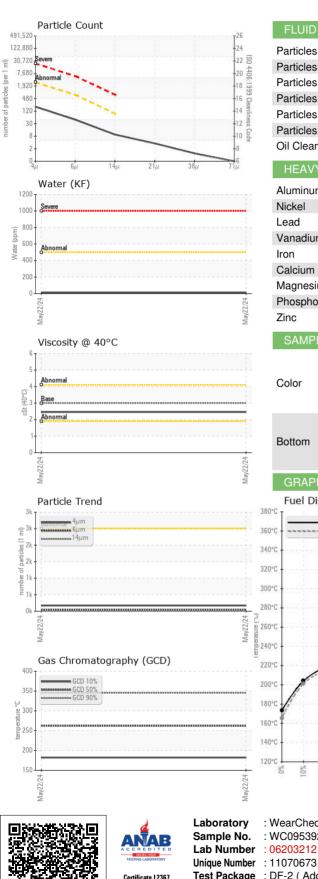
Sample Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953928		
Sample Date		Client Info		22 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61.8		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	7		
Sulfur (UVF)	ppm	ASTM D5453		9		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	173		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86	201	204		
15% Distillation Point	°C	ASTM D86		211		
20% Distill Point	°C	ASTM D86	216	219		
30% Distill Point	°C	ASTM D86	230	233		
40% Distill Point	°C	ASTM D86	243	246		
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	303		
85% Distillation Point	°C	ASTM D86		314		
90% Distill Point	°C	ASTM D86	310	325		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86	341	358		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
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	2		
Potassium	ppm	ASTM D5185m	<0.1	2		
Water	%	ASTM D6304	<0.05	0.001		
ppm Water	ppm	ASTM D6304	<500	13		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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**FLUID CLEANLINESS** 172 >2500 Particles >4µm ASTM D7647 ----Particles >6um ASTM D7647 >640 41 Particles >14µm ASTM D7647 >80 8 Particles >21µm ASTM D7647 >20 3 Particles >38µm ASTM D7647 1 >4 Particles >71µm 0 ASTM D7647 >3 **Oil Cleanliness** ISO 4406 (c) >18/16/13 15/13/10 HEAVY METALS 0 Aluminum ppm ASTM D5185m <0.1 Nickel ASTM D5185m <0.1 ppm <1 ppm ASTM D5185m < 0.1 0 Vanadium ppm ASTM D5185m <0.1 0 ASTM D5185m < 0.1 0 naa Calcium ppm ASTM D5185m <0.1 <1 Magnesium ASTM D5185m < 0.1 0 ppm Phosphorus <0.1 ppm ASTM D5185m 11 < 0.1 5 ppm ASTM D5185m SAMPLE IMAGES Color no image no image



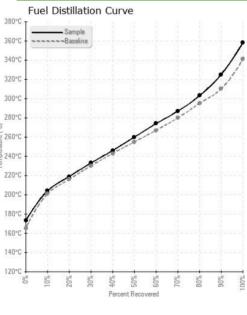
8

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60



### GRAPHS



Received

Diagnosed

Tested

: 07 Jun 2024

: 13 Jun 2024

: 13 Jun 2024 - Elizabeth Valachovic

### GCD Spectrum 600 60.0 550 500 450 400 350 300 8 250 200 150 100 50 9 Time (min) 00

Pensky-Martens Flash Point (°C)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0953928 :06203212 Test Package : DF-2 (Additional Tests: Fuel, Screen) 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)

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

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Report Id: PETSUM [WUSCAR] 06203212 (Generated: 06/15/2024 08:08:39) Rev: 2

Contact/Location: AJAY EL - PETSUM