

## FUEL REPORT

Sample Rating Trend

### NORMAL

### Area **QTS CHICAGO** [QTS CHICAGO] GEN R3

**Diesel Fuel** 

#### Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (50

#### 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. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

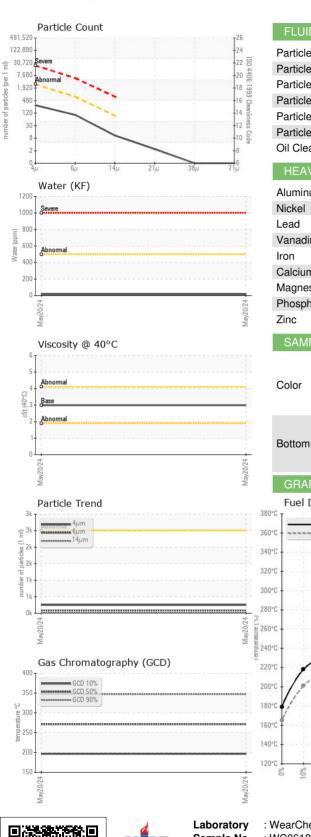
#### **Fuel Condition**

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

8) (5000 GAL)											
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2					
Sample Number		Client Info		WC06185728							
Sample Date		Client Info		20 May 2024							
Machine Age	hrs	Client Info		0							
Sample Status				NORMAL							
PHYSICAL PROP	FRTIES	method	limit/base	current	history1	history2					
						Thistory2					
Fuel Color	text	*Visual Screen	Yllow	Red							
ASTM Color	scalar	*ASTM D1500	0.0	L4.5							
Visc @ 40°C	cSt	ASTM D445	3.0	2.99							
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	66.2							
SULFUR CONTER	T	method	limit/base	current	history1	history2					
Sulfur	ppm	ASTM D5185m	10	0							
Sulfur (UVF)	ppm	ASTM D5453		6							
DISTILLATION		method	limit/base	current	history1	history2					
Initial Boiling Point	°C	ASTM D86	165	179							
5% Distillation Point	°C	ASTM D86		207							
10% Distill Point	°C	ASTM D86	201	218							
15% Distillation Point	°C	ASTM D86		225							
20% Distill Point	°C	ASTM D86	216	233							
30% Distill Point	°C	ASTM D86	230	246							
40% Distill Point	°C	ASTM D86	243	257							
50% Distill Point	°C	ASTM D86	255	268							
60% Distill Point	°C	ASTM D86	267	280							
70% Distill Point	°C	ASTM D86	280	293							
80% Distill Point	°C	ASTM D86	295	307							
85% Distillation Point	°C	ASTM D86		316							
90% Distill Point	°C	ASTM D86	310	326							
95% Distillation Point	°C	ASTM D86		342							
Final Boiling Point	°C	ASTM D86	341	354							
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2					
API Gravity		ASTM D7777	37.7	32							
Cetane Index		ASTM D4737	<40.0	43							
CONTAMINANTS		method	limit/base	current	history1	history2					
Silicon	ppm	ASTM D5185m	<1.0	0							
Sodium	ppm	ASTM D5185m	<0.1	0							
Potassium	ppm	ASTM D5185m	<0.1	0							
Water	%	ASTM D6304	<0.05	0.002							
ppm Water	ppm	ASTM D6304	<500	16							
% Gasoline	%	*In-House	<0.50	0.0							
% Biodiesel	%	*In-House	<20.0	0.0							



# **FUEL REPORT**



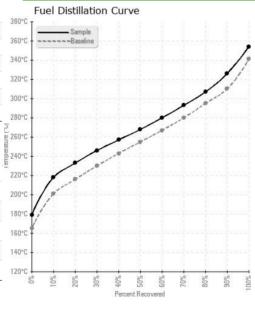
FLUID CLEANLIN	ESS	method				history2
Particles >4µm		ASTM D7647	>2500	251		
Particles >6µm		ASTM D7647	>640	87		
Particles >14µm		ASTM D7647	>80	9		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	15/14/10		
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES		method	limit/base	current	history1	history2
0.1						

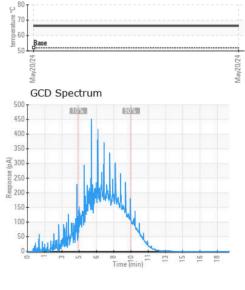
Color





#### GRAPHS





Pensky-Martens Flash Point (°C)



PETROLEUM RECOVERY SERVICES : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06185728 210 POWELL DR Sample No. Received : 20 May 2024 Lab Number : 06185728 Tested : 28 May 2024 SUMMERVILLE, SC Unique Number : 11037054 Diagnosed : 28 May 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: AJAY EL Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Ajay@prsfuel.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (843)225-1777 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PETSUM [WUSCAR] 06185728 (Generated: 05/28/2024 19:55:07) Rev: 1

Contact/Location: AJAY EL - PETSUM

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US 29483