

Area QTS SUWANEE DC1 [17720] **[QTS SUWANEE DC1] GEN DAY 1**

Diesel Fuel Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (150 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets ASTM D975 specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

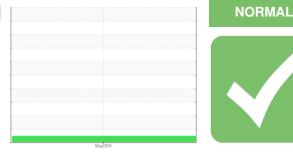
All metal levels are normal indicating no corrosion in the system.

Contaminants

There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. 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.



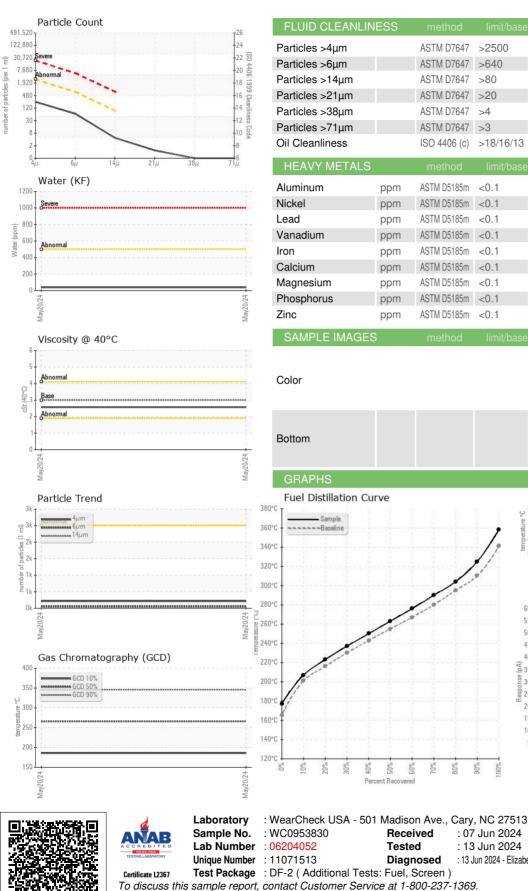
Sample Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953830		
Sample Date		Client Info		20 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	2.57		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	65.9		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	177		
5% Distillation Point	°C	ASTM D86		198		
10% Distill Point	°C	ASTM D86	201	207		
15% Distillation Point	°C	ASTM D86		215		
20% Distill Point	°C	ASTM D86	216	223		
30% Distill Point	°C	ASTM D86	230	237		
40% Distill Point	°C	ASTM D86	243	250		
50% Distill Point	°C	ASTM D86	255	263		
60% Distill Point	°C	ASTM D86	267	276		
70% Distill Point	°C	ASTM D86	280	290		
80% Distill Point	°C	ASTM D86	295	304		
85% Distillation Point	°C	ASTM D86		315		
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	36		
Cetane Index		ASTM D4737	<40.0	48		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	2		
Water	%	ASTM D6304	<0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	39		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT

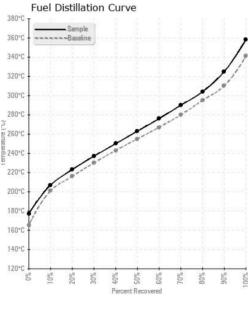


FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	213		
Particles >6µm		ASTM D7647	>640	57		
Particles >14µm		ASTM D7647	>80	4		
Particles >21µm		ASTM D7647	>20	1		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Dil Cleanliness		ISO 4406 (c)	>18/16/13	15/13/9		
HEAVY METALS		method	limit/base	current	history1	history2
luminum	ppm	ASTM D5185m	<0.1	0		
lickel	ppm	ASTM D5185m	<0.1	0		
ead	ppm	ASTM D5185m	<0.1	1		
/anadium	ppm	ASTM D5185m	<0.1	0		
ron	ppm	ASTM D5185m	<0.1	<1		
Calcium	ppm	ASTM D5185m	<0.1	0		
lagnesium	ppm	ASTM D5185m	<0.1	0		
hosphorus	ppm	ASTM D5185m	<0.1	0		
linc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				D.	no image	no image
Bottom					no image	no image

Bottom



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.



Received

Diagnosed

Tested

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

: 07 Jun 2024

: 13 Jun 2024

: 13 Jun 2024 - Elizabeth Valachovic

8 월 70 60 GCD Spectrum 600 **BEAR** 550 500 450 400 Q 350 300 8 250 200 150 100 50 Time (min) 16 0

Pensky-Martens Flash Point (°C)

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

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Contact/Location: AJAY EL - PETSUM

Page 2 of 2