

FUEL REPORT

Area **QTS CHICAGO** [QTS CHICAGO] GEN F2

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (5000 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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.

Fuel Condition

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



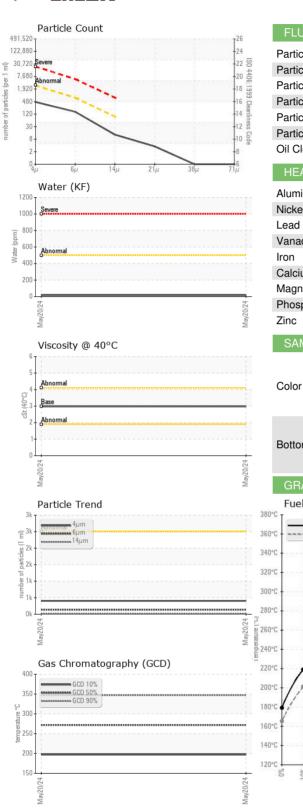
Sample Rating Trend



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06185730		
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	2.98		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	66.5		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		5		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	179		
5% Distillation Point	°C	ASTM D86		208		
10% Distill Point	°C	ASTM D86	201	219		
15% Distillation Point	°C	ASTM D86		226		
20% Distill Point	°C	ASTM D86	216	234		
30% Distill Point	°C	ASTM D86	230	247		
40% Distill Point	°C	ASTM D86	243	257		
50% Distill Point	°C	ASTM D86	255	268		
60% Distill Point	°C	ASTM D86	267	281		
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 QUALIT	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	18		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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UID CLEANLINE	ESS me	thod lin	nit/base	current	history1	history2
cles >4µm	ASTN	1 D7647 >25	500	404		
cles >6µm	ASTN	1 D7647 >64	0	137		
cles >14µm	ASTN	1 D7647 >80)	11		
cles >21µm	ASTN	1 D7647 >20)	3		
cles >38µm	ASTN	1 D7647 >4		0		
cles >71µm	ASTN	1 D7647 >3		0		
leanliness	ISO 4	1406 (c) >18	/16/13	16/14/11		
AVY METALS	me	thod lin	nit/base	current	history1	history2
inum	ppm ASTM	D5185m <0.	1	0		
əl	ppm ASTM	D5185m <0.	1	0		
	ppm ASTM	D5185m <0.	1	0		
adium	ppm ASTM	D5185m <0.	1	0		
		D5185m <0.	1	0		
ium		D5185m <0.	1	0		
nesium		D5185m <0.		0		
		D5185m <0.		0		
		D5185m <0.		0		
MPLE IMAGES	me	thod lin	nit/base	current	history1	history2
om					no image	no image
APHS						
l Distillation Cur	ve		P	ensky-Martens	Flash Point (°C)
Sample			Mav20024	Base		Mav20/24
				GCD Spectrum		
	A start		500 450		<u>(90%)</u>	
			400 350 350 200 150 100 50			
<u></u>	<u>8</u> 8 8	<u>8</u> 8 9			Time (min)	9 8
10% 20% 30%	50% 60% 70%	80% 90%	100%		Time (min)	

PETROLEUM RECOVERY SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC06185730 Received : 20 May 2024 210 POWELL DR Lab Number : 06185730 Tested : 28 May 2024 SUMMERVILLE, SC Unique Number : 11037056 Diagnosed : 28 May 2024 - Angela Borella 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)

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Report Id: PETSUM [WUSCAR] 06185730 (Generated: 05/28/2024 15:41:17) Rev: 1

Contact/Location: AJAY EL - PETSUM

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