

FUEL REPORT

Area **QTS CHICAGO** [QTS CHICAGO] GEN R2

Diesel Fuel

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



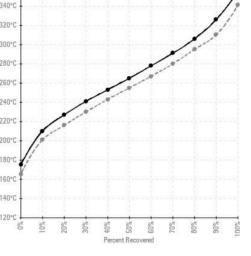
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06185725		
Sample Date		Client Info		20 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.73		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	64.5		
SULFUR CONTEI	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		7		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	175		
5% Distillation Point	°C	ASTM D86		199		
10% Distill Point	°C	ASTM D86	201	210		
15% Distillation Point	°C	ASTM D86		218		
20% Distill Point	°C	ASTM D86	216	227		
30% Distill Point	°C	ASTM D86	230	241		
40% Distill Point	°C	ASTM D86	243	253		
50% Distill Point	°C	ASTM D86	255	265		
60% Distill Point	°C	ASTM D86	267	278		
70% Distill Point	°C	ASTM D86	280	291		
80% Distill Point	°C	ASTM D86	295	306		
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	355		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	33		
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	19		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		

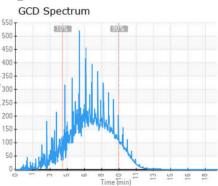


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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
articles >4µm		ASTM D7647	>2500	225		
articles >6µm		ASTM D7647	>640	89		
articles >14µm		ASTM D7647	>80	11		
articles >21µm		ASTM D7647	>20	2		
articles >38µm		ASTM D7647	>4	0		
articles >71µm		ASTM D7647	>3	0		
l Cleanliness		ISO 4406 (c)	>18/16/13	15/14/11		
HEAVY METALS		method	limit/base	current	history1	history2
uminum	ppm	ASTM D5185m	<0.1	0		
ckel	ppm	ASTM D5185m	<0.1	0		
ad	ppm	ASTM D5185m	<0.1	0		
nadium	ppm	ASTM D5185m	<0.1	0		
n	ppm	ASTM D5185m	<0.1	0		
alcium	ppm	ASTM D5185m	<0.1	0		
agnesium	ppm	ASTM D5185m	<0.1	0		
iosphorus	ppm	ASTM D5185m	<0.1	0		
าต	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
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ottom					no image	no image
GRAPHS						
uel Distillation Cu	rve		8	Pensky-Marte	ns Flash Point (°C)
Sample Baseline				0-		
			Therat	0		
			// ¹	Base		
		/	1-	/20/2		ACTOC. MARK
		11		May		W
		1.	rr	GCD Spectru	m	
	1	A and a	55		(90%)	
/	and the second		45			
1.			40	10 -		
1.			(F ³⁵	i0 -		
1.1			eg 30	10 -		





: WC06185725 Received : 20 May 2024 Lab Number : 06185725 Tested : 28 May 2024 Unique Number : 11037051 Diagnosed : 28 May 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Fuel, Screen) Certificate 12367 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 F:

Report Id: PETSUM [WUSCAR] 06185725 (Generated: 05/28/2024 19:58:14) Rev: 1

Contact/Location: AJAY EL - PETSUM

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