

FUEL REPORT

Sample Rating Trend

SEDIMENT

QTS SUWANEE DC1 [17699] [QTS SUWANEE DC1] C5

Diesel Fuel

Area

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (3000 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. All laboratory tests indicate that this sample meets specifications for No.2 ultralow-sulfur diesel fuel.

Corrosion

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

Contaminants

There is a moderate amount of visible silt present in the sample. 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.

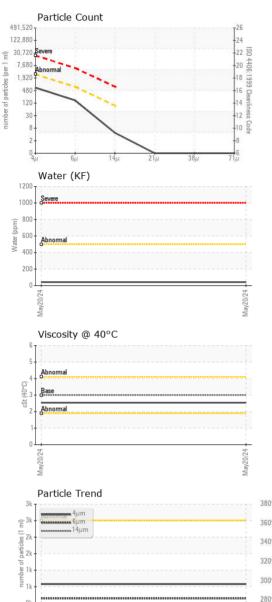
Fuel Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953847		
Sample Date		Client Info		20 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
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	2.54		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	65.6		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		15		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	177		
5% Distillation Point	°C	ASTM D86		199		
10% Distill Point	°C	ASTM D86	201	208		
15% Distillation Point	°C	ASTM D86		216		
20% Distill Point	°C	ASTM D86	216	224		
30% Distill Point	°C	ASTM D86	230	238		
40% Distill Point	°C	ASTM D86	243	251		
50% Distill Point	°C	ASTM D86	255	264		
60% Distill Point	°C	ASTM D86	267	277		
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	357		
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	0		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	1		
Water	%	ASTM D6304	<0.05	0.004		
ppm Water	ppm	ASTM D6304	<500	42		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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FLUID CLEANLI	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>2500	580			
Particles >6µm		ASTM D7647	>640	143			
Particles >14µm		ASTM D7647	>80	4			
Particles >21µm		ASTM D7647	>20	0			
Particles >38µm		ASTM D7647	>4	0			
Particles >71µm		ASTM D7647	>3	0			
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/14/9			
HEAVY METALS	3	method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185m	<0.1	0			
Nickel	ppm	ASTM D5185m	<0.1	<1			
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	<1			
Phosphorus	ppm	ASTM D5185m	<0.1	0			
Zinc	ppm	ASTM D5185m	<0.1	0			
SAMPLE IMAGE	S	method	limit/base	current	history1	history2	
Color					no image	no image	
Bottom					no image	no image	
GRAPHS							
Fuel Distillation C	Curve		Pensky-Martens Flash Point (°C)				
380°C			្ខុ ⁸ រដ្ឋ 7				
			17 temberarture	0			
340°C -			// [#] 5			st-	
320°C -		/		May20/24		May20/24	
300°C -		1				May	
280°C -		1.	60	GCD Spectrur			
5 260°C -	1	8 · · · ·	55		[90%]		
240°C -	and the second second		50	E 2 3 E E			
			45	n -			
220°C			(¥d) 35	0-			
200°C			(Fd) 351 800 800 800 800 800 800 800 800 800 80	0			
180°C			호 25 20	0			
160°C -			20				
140°C -			10	0	The second se		
100			5		N.		



Ωk 10/00/mel

400

350

은 300

g 250

200

150

Gas Chromatography (GCD)

GCD 10%

10% 20% 30% 40% 20% 20% %00 60% 80% 90% May20/24 Percent Recovered PETROLEUM RECOVERY SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0953847 Received : 10 Jun 2024 210 POWELL DR Lab Number : 06205294 Tested : 18 Jun 2024 SUMMERVILLE, SC Unique Number : 11072755 Diagnosed : 18 Jun 2024 - Elizabeth Valachovic 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] 06205294 (Generated: 06/19/2024 12:28:55) Rev: 1

10/00/mel

120°C

Contact/Location: AJAY EL - PETSUM

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Time (min)

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