

FUEL REPORT

Area OTS ATLANTA GA DC2 [4818] [QTS ATLANTA GA DC2] D3 Component

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (9000 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

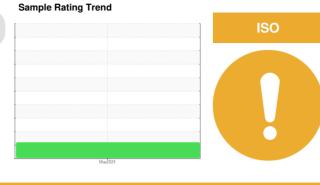
All metal levels are normal indicating no corrosion in the system.

Contaminants

There is a moderate amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible.

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		WC0953886		
Sample Date		Client Info		22 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
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	2.3		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.4		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	170		
5% Distillation Point	°C	ASTM D86		191		
10% Distill Point	°C	ASTM D86	201	200		
15% Distillation Point	°C	ASTM D86		207		
20% Distill Point	°C	ASTM D86	216	214		
30% Distill Point	°C	ASTM D86	230	228		
40% Distill Point	°C	ASTM D86	243	241		
50% Distill Point	°C	ASTM D86	255	254		
60% Distill Point	°C	ASTM D86	267	269		
70% Distill Point	°C	ASTM D86	280	284		
80% Distill Point	°C	ASTM D86	295	301		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86	310	324		
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	37		
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	2		
Water	%	ASTM D6304	<0.05	0.002		
ppm Water	ppm	ASTM D6304	<500	24		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT

491,520	Particle Count	26	
122,880		24	F
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	Particle Trend		A
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	Water (KF)		
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1000	Severe O		
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(mdd) uater (bbm)	Abnormal		
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0.		-	
	May22/24	May22/24	
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	Viscosity @ 40°C		
6 -			380°C
5.			360°C
G 4.	Abnormal		340°C
cSt (40°C)	Base		22000
<u>د</u> ۲۰	Abnormal		320°C
1-	1		300°C
0.		_	280°C
	May22/24	May22/24	260°C
	May	May	nerad 240°C
	Gas Chromatography (GCD)		
400-			220°C
350-	GCD 10%		200°C
	GCD 90%		180°C
ູ autherature dmat 250 ·			160°C
la la 250∙			
± 200 -			140°C
150-			120°C
150-	2/24	2/24	-
	May22/24	May22/24	
		_	

FLUID CLEANLIN	NESS	method	limit/bas	se current	history1	history
Particles >4µm		ASTM D7647	>2500	1430		
Particles >6µm Particles >14µm Particles >21µm Particles >21µm Particles >38µm		ASTM D7647	>640	401		
Particles >14µm		ASTM D7647	>80	— 137		
Particles >21µm		ASTM D7647	>20	5 0		
Particles >38µm		ASTM D7647	>4	3		
Particles >71µm		ASTM D7647	>3	0		
Gil Cleanliness		ISO 4406 (c)	>18/16/13	3 🛑 18/16/14		
HEAVY METALS		method	limit/bas	se current	history1	history
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		ASTM D5185m	<0.1	0		
+	ppm	ASTM D5185m	<0.1	0		
Phosphorus Zinc		ASTM D5185m	<0.1	2		
SAMPLE IMAGES	S	method	limit/bas	se current	history1	history
Color				and a second sec	no image	no image
Bottom					no image	no image
GRAPHS Fuel Distillation Cu	10/0			Pensky-Marter	as Elash Doint (°C)
380°C T	ai ve			Base		
360°C - Sample			,	Base		
340°C -			1.	a 50 - G		
-			11	40		
320°C -		/		May22/24		
300°C -		1.00				
280°C		1		GCD Spectrum		
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May May	and the second s			500-		
				450		
220°C			(n <u>A</u>)	§350 -		
200°C -			800	5 350 - 3 300 - 3 250 -		
180°C			Las Harrison Harris	250-		
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160°C -				100	WINK .	
140°C -				50-		
1 (10) H (10) H			1		8	15
120°C						
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+ %0 %0 %0	rcent Recovered	70% -	90% -		Time (min)	
24 +		70% -	90% -		Time (min)	
May22/24 + 0%	ercent Recovered		, F			
ry : WearCheck USA - 50	arcent Recovered	n Ave., Cary	, F	3 PETROI	LEUM RECOVE	ERY SERVI
May22/24 + 0%	ercent Recovered	n Ave., Cary /ed : 07	, NC 2751	3 PETROI	LEUM RECOVE	

: 13 Jun 2024 - Doug Bogart



 Certificate 12367
 Test Package
 : DF-2 (Additional Tests: Fuel, Screen)

 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)

Diagnosed

Unique Number : 11069840

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

Report Id: PETSUM [WUSCAR] 06202379 (Generated: 06/15/2024 07:13:18) Rev: 1

Contact/Location: AJAY EL - PETSUM

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