

## FUEL REPORT

### Area Sampson Regional Medical Center [Sampson Regional Medical Center] GEN 1 600

**Diesel Fuel** 

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (700 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. All laboratory tests indicate that this sample meets specifications for No.2 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.



Sample Rating Trend



NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06185702		
Sample Date		Client Info		08 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		L4.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.56		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	62.6		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	8		
Sulfur (UVF)	ppm	ASTM D5453		17		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	174		
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	249		
50% Distill Point	°C	ASTM D86	255	262		
60% Distill Point	°C	ASTM D86	267	275		
70% Distill Point	°C	ASTM D86	280	288		
80% Distill Point	°C	ASTM D86	295	303		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86	310	323		
95% Distillation Point	°C	ASTM D86		340		
Final Boiling Point	°C	ASTM D86	341	354		
IGNITION QUALI	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	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.002		
ppm Water	ppm	ASTM D6304	<500	25		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



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ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ASTM D7647

ASTM D7647 >640

ASTM D7647 >80

ASTM D7647 >20

ASTM D7647 >4

ASTM D7647 >3

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m <0.1

ASTM D5185m <0.1

ASTM D5185m <0.1

ISO 4406 (c) >18/16/13

< 0.1

< 0.1

<0.1

<0.1

< 0.1

< 0.1

>2500

FLUID CLEANLINESS

Particles >4µm Particles >6um

Particles >14µm

Particles >21µm

Particles >38µm

Particles >71µm

**Oil Cleanliness** 

Aluminum

Vanadium

Calcium

Magnesium

Phosphorus

SAMPLE IMAGES

Nickel

Lead

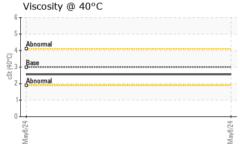
Iron

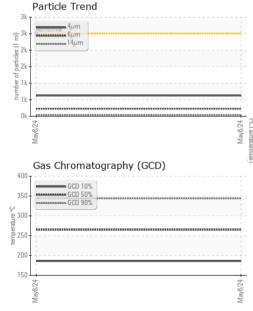
Zinc

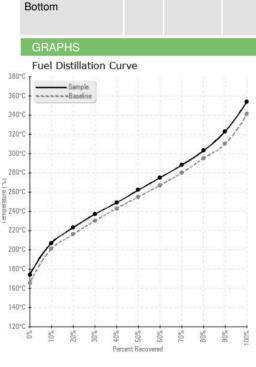
Color

HEAVY METALS

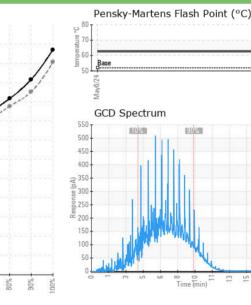
	ticle Cou	nt			
191,520					T <sup>26</sup>
22,880 -					-24
30,720 Severe					-22 8
7,680 Abnom	nal				-20 8
1,920		1 A A			-22 2 -20 7 -18 7 -16 7 -14 7 -12 7 -10 7
480					-16 g
120-					-14
30-			-		-12
8-					-10 8
					+8
2-					To
0. 4µ	<sup>6μ</sup> ter (KF)	14μ	21 <b>j</b> µ	38µ	
₀ ₄µ Wat		14μ	21µ	38µ	
₀ ₄µ Wat	ter (KF)	14µ	21µ	38µ	
0 4μ 1200 1000	ter (KF)	14µ	21µ	38µ	
0 4μ 1200 1000	ter (KF)	14μ	21µ	38µ	
0 4μ 1200 1000	ter (KF) ®	14μ	21µ	38µ	
04µ Wat 1200 1000 800 800	ter (KF) ®	14µ	21µ	38µ	
0 4μ Wat 1200 1000 800 400 400	ter (KF) ®	14μ	21µ	38µ	
U 4µ 1200 1000 800 400 200	ter (KF) ®	14μ	21µ	38µ	
Wat 1200 1000 800 400 200 0	ter (KF) ®	14µ	21µ	38	
U 4µ 1200 1000 800 400 200	ter (KF) ®	14µ	21/µ	38µ	











627

228

39

15

1

0

0

0

0

<1

0

0

<1

0

0

16/15/12



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 PETROLEUM RECOVERY SERVICES Sample No. : WC06185702 Received : 20 May 2024 Lab Number : 06185702 Tested : 28 May 2024 Unique Number : 11037028 Diagnosed : 28 May 2024 - Elizabeth Valachovic 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)

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

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Report Id: PETSUM [WUSCAR] 06185702 (Generated: 05/28/2024 15:42:03) Rev: 1

Contact/Location: AJAY EL - PETSUM

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