

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

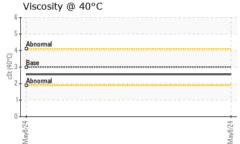
Iron

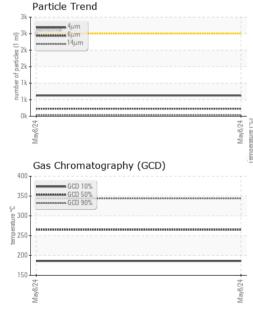
Zinc

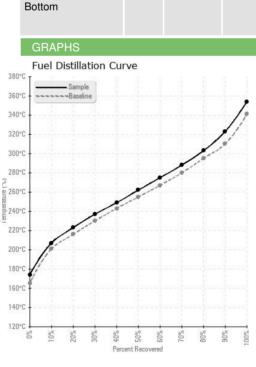
Color

HEAVY METALS

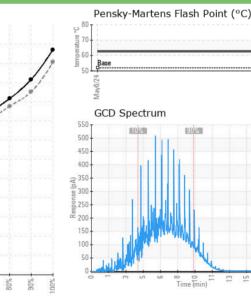
	ticle Cou	nt			
191,520					T ²⁶
22,880 -					-24
30,720 Severe					-22 8
7,680 Abnom	nal				-20 8
1,920		1 A A			-22 2 -20 7 -18 7 -16 7 -14 7 -12 7 -10 7
480					-16 g
120-					-14
30-			-		-12
8-					-10 8
					+8
2-					To
0. 4µ	^{6μ} ter (KF)	14μ	21 j µ	38µ	
₀ ₄µ Wat		14μ	21µ	38µ	
₀ ₄µ Wat	ter (KF)	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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