



FUEL REPORT

Sample Rating Trend



NORMAL



Area

Colleton Medical Center

Machine Id

[Colleton Medical Center] GEN 1

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (3000 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06185734	---	---
Sample Date	Client Info	20 May 2024	---	---
Machine Age	hrs	Client Info	0	---
Sample Status			NORMAL	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500	L4.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.59
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0
Sulfur (UVF)	ppm	ASTM D5453		13

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	170
5% Distillation Point	°C	ASTM D86		194
10% Distill Point	°C	ASTM D86	201	204
15% Distillation Point	°C	ASTM D86		212
20% Distill Point	°C	ASTM D86	216	221
30% Distill Point	°C	ASTM D86	230	236
40% Distill Point	°C	ASTM D86	243	250
50% Distill Point	°C	ASTM D86	255	264
60% Distill Point	°C	ASTM D86	267	278
70% Distill Point	°C	ASTM D86	280	292
80% Distill Point	°C	ASTM D86	295	307
85% Distillation Point	°C	ASTM D86		318
90% Distill Point	°C	ASTM D86	310	328
95% Distillation Point	°C	ASTM D86		346
Final Boiling Point	°C	ASTM D86	341	362

IGNITION QUALITY

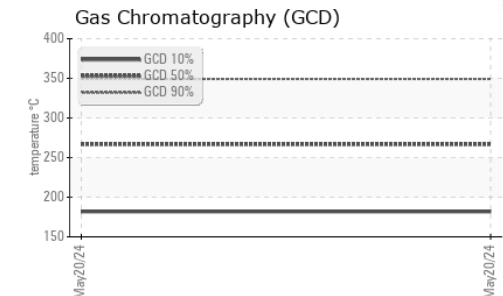
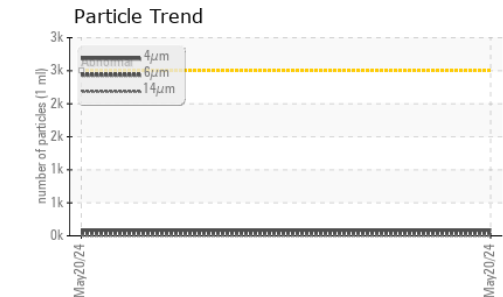
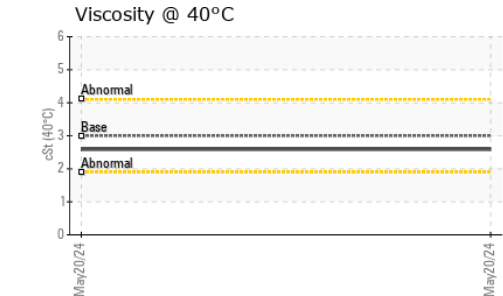
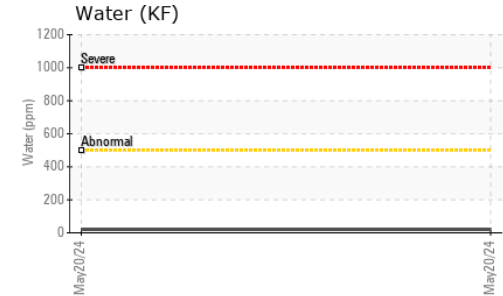
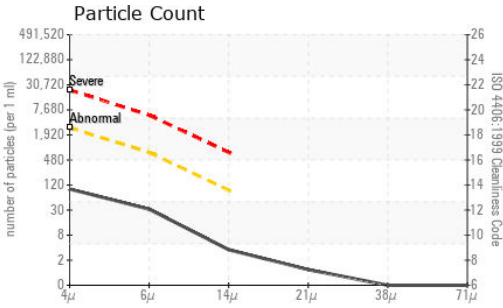
method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36
Cetane Index		ASTM D4737	<40.0	48

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	0
Water	%	ASTM D6304	<0.05	0.002
ppm Water	ppm	ASTM D6304	<500	21
% Gasoline	%	*In-House	<0.50	0.0
% Biodiesel	%	*In-House	<20.0	0.0



FUEL REPORT

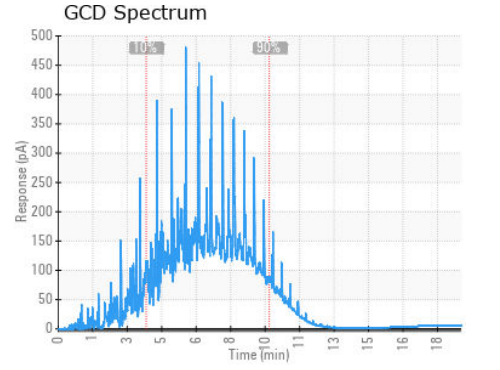
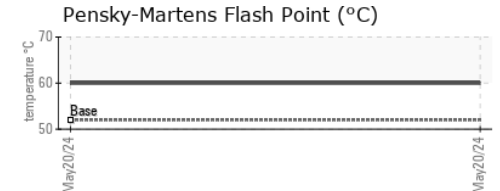
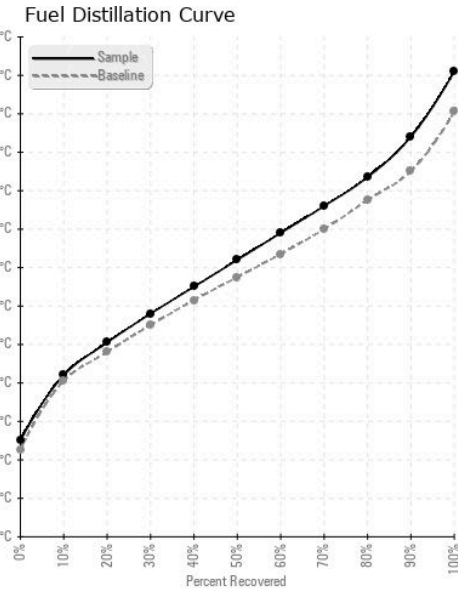


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	85	---	---
Particles >6µm	ASTM D7647	>640	28	---	---
Particles >14µm	ASTM D7647	>80	3	---	---
Particles >21µm	ASTM D7647	>20	1	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	14/12/9	---	---

HEAVY METALS	method	limit/base	current	history1	history2
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	ppm	ASTM D5185m <0.1	0	---	---
Phosphorus	ppm	ASTM D5185m <0.1	<1	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06185734 **Received** : 20 May 2024
Lab Number : **06185734** **Tested** : 28 May 2024
Unique Number : 11037060 **Diagnosed** : 28 May 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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

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)