



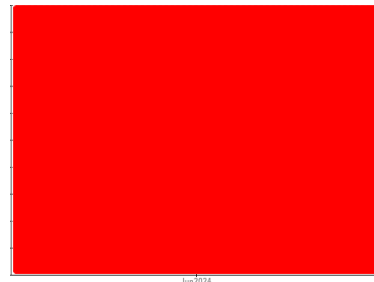
FUEL REPORT

Sample Rating Trend

WATER



Area
GRAND STRAND HEALTH SOUTH STRAND MEDICAL CENTER [17816]
 Machine Id
[GRAND STRAND HEALTH SOUTH STRAND MEDICAL CENTER] DAY 1
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (100 GAL)



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system. There is too much contamination present in this sample to perform a particle count.

Corrosion

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

Contaminants

Excessive free water present. High concentration of visible dirt/debris present in the fuel. There is a high amount of visible silt present in the sample. There is a light concentration of Bacteria, Yeast and Fungus present in the sample.

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		WC0957744	---	---
Sample Date	Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info	0	---	---
Sample Status			SEVERE	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yellow	Red	---
ASTM Color	scalar	*ASTM D1500		L4.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.57	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	66.3	---

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	177	---
5% Distillation Point	°C	ASTM D86		200	---
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	278	---
70% Distill Point	°C	ASTM D86	280	292	---
80% Distill Point	°C	ASTM D86	295	308	---
85% Distillation Point	°C	ASTM D86		318	---
90% Distill Point	°C	ASTM D86	310	329	---
95% Distillation Point	°C	ASTM D86		345	---
Final Boiling Point	°C	ASTM D86	341	360	---

IGNITION QUALITY

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

CONTAMINANTS

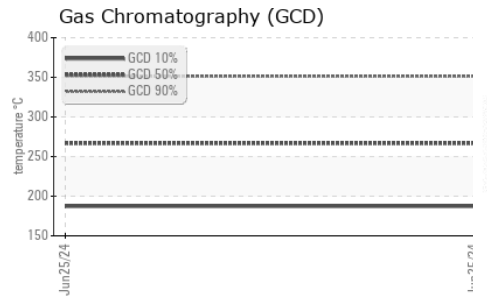
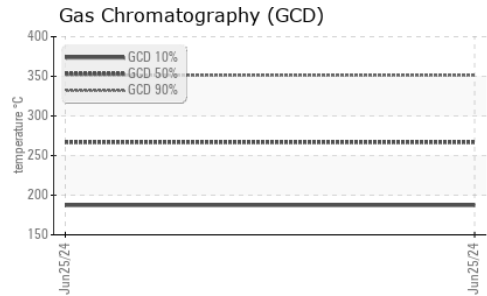
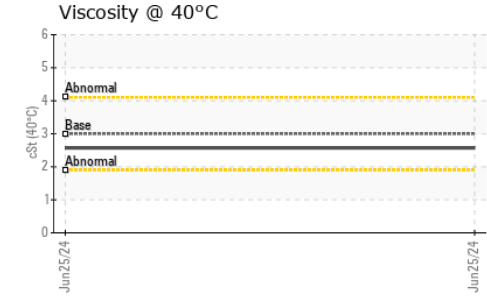
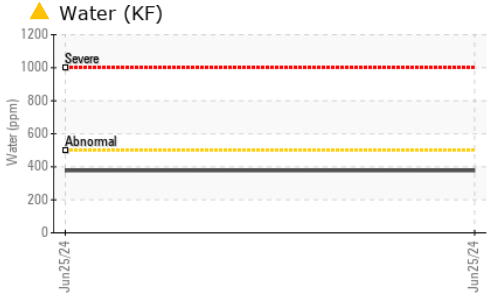
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---
Sodium	ppm	ASTM D5185m	<0.1	1	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---
Water	%	ASTM D6304	<0.05	0.037	---
ppm Water	ppm	ASTM D6304	<500	377	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	1.7	---

MICROBIAL

	method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	100	---
Yeast	CFU/ml	WC-Method	>=100000	0	---
Mold	Colonies	WC-Method	MODER	---	---



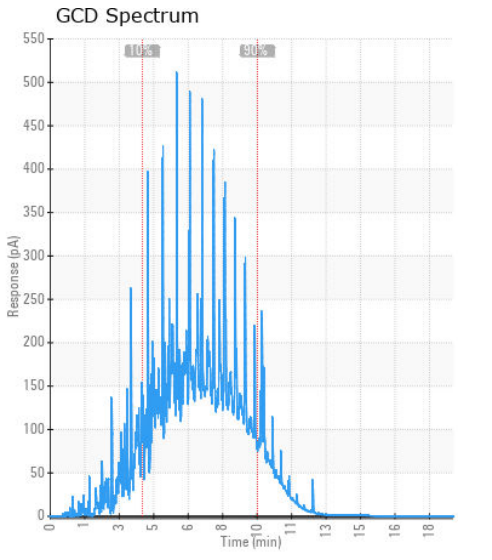
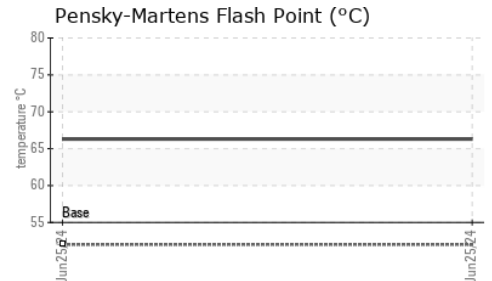
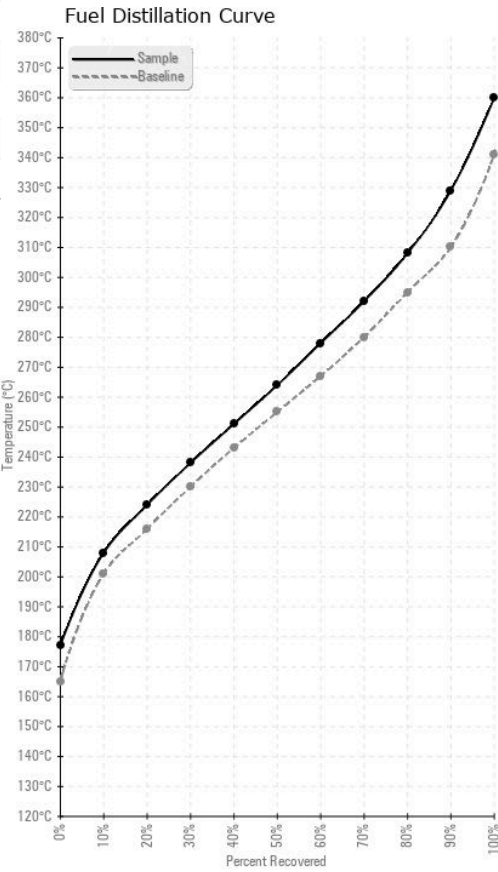
FUEL REPORT



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	<1	---	---
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				no image	no image	
Bottom				no image	no image	

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0957744 **Received** : 25 Jun 2024
Lab Number : 06220305 **Tested** : 02 Jul 2024
Unique Number : 11098502 **Diagnosed** : 02 Jul 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Bacteria, Fuel, Screen)

PETROLEUM RECOVERY SERVICES
 210 POWELL DR
 SUMMERVILLE, SC
 US 29483
 Contact: AJAY EL
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 T: (843)225-1777
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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)