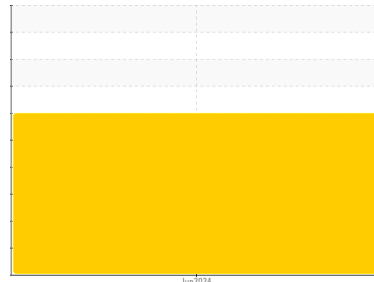




FUEL REPORT

Sample Rating Trend



WATER



Area

GRAND STRAND REGIONAL MEDICAL CENTER [17818]

Machine Id

[GRAND STRAND REGIONAL MEDICAL CENTER] MAIN 1 GEN

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (15000 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 contamination present in this sample to perform a particle count.

Corrosion

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

▲ Contaminants

Though microbial test was negative, appearance indicates possible Bacteria, Yeast and/or Fungus present in the sample. Excessive free water present. There is a high amount of visible silt present in the sample. Moderate concentration of visible dirt/debris present in the fuel.

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		WC0957812	---	---
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	2.43	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.7	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	---
Sulfur (UVF)	ppm	ASTM D5453		11	---

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	170	---
5% Distillation Point	°C	ASTM D86		193	---
10% Distill Point	°C	ASTM D86	201	203	---
15% Distillation Point	°C	ASTM D86		212	---
20% Distill Point	°C	ASTM D86	216	220	---
30% Distill Point	°C	ASTM D86	230	235	---
40% Distill Point	°C	ASTM D86	243	249	---
50% Distill Point	°C	ASTM D86	255	263	---
60% Distill Point	°C	ASTM D86	267	276	---
70% Distill Point	°C	ASTM D86	280	290	---
80% Distill Point	°C	ASTM D86	295	305	---
85% Distillation Point	°C	ASTM D86		315	---
90% Distill Point	°C	ASTM D86	310	325	---
95% Distillation Point	°C	ASTM D86		341	---
Final Boiling Point	°C	ASTM D86	341	355	---

IGNITION QUALITY

	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	37	---	---
Cetane Index	ASTM D4737	<40.0	49	---	---

CONTAMINANTS

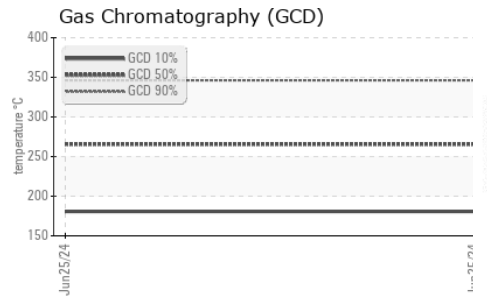
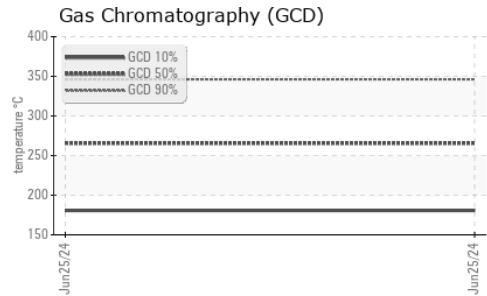
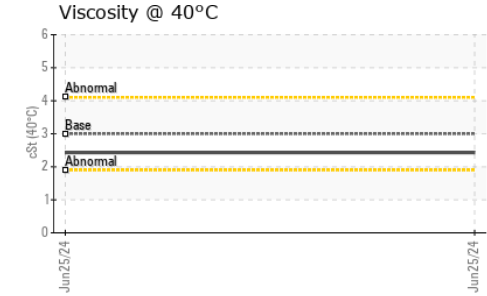
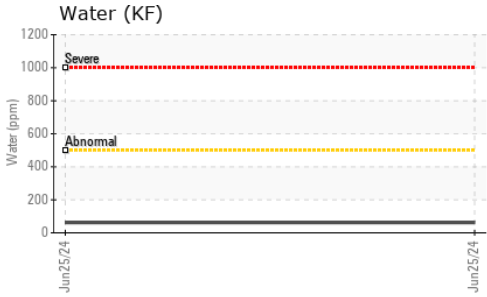
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---
Sodium	ppm	ASTM D5185m	<0.1	<1	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---
Water	%	ASTM D6304	<0.05	0.006	---
ppm Water	ppm	ASTM D6304	<500	62	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	1.1	---

MICROBIAL

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



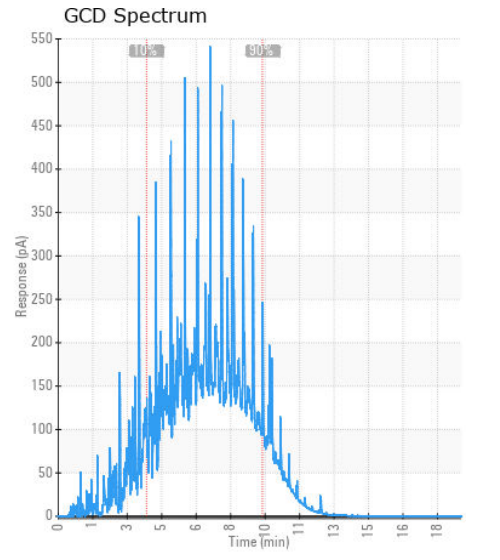
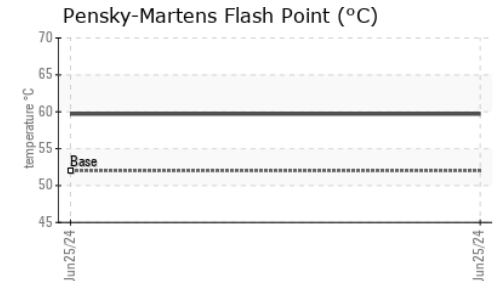
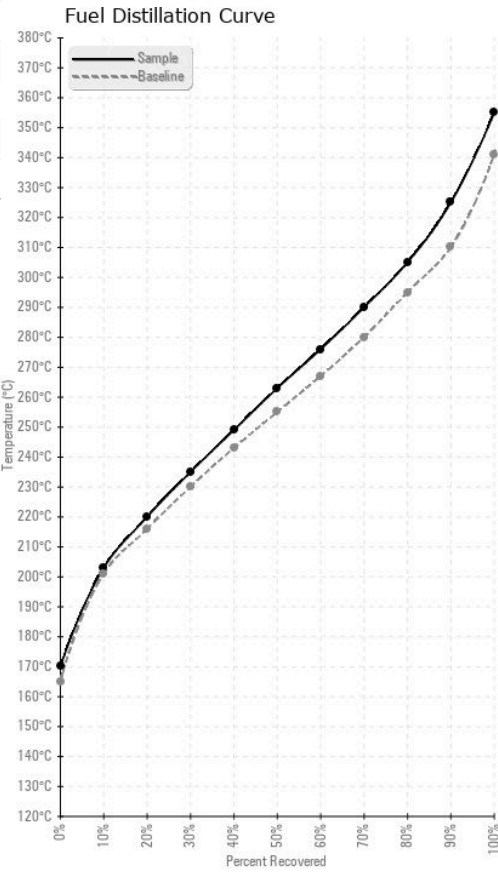
FUEL REPORT



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. : WC0957812 **Received** : 25 Jun 2024
Lab Number : 06220304 **Tested** : 02 Jul 2024
Unique Number : 11098501 **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
 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)