



FUEL REPORT

Sample Rating Trend



WATER



Machine Id
HCA FLORIDA LAWNWOOD HOSPITAL EMERGENCY GEN
 Component
Bulk Tank Diesel Fuel
 Fluid
DDSL (3400 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.

Corrosion

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

▲ Contaminants

Excessive free water present. Moderate concentration of visible dirt/debris present in the fuel. There is a moderate amount of visible silt present in the sample.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WCDF4596	---	---
Sample Date	Client Info		17 Apr 2024	---	---
Machine Age	mls	Client Info	0	---	---
Sample Status			SEVERE	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Red	---	---
ASTM Color	scalar	*ASTM D1500	L5.5	---	---
Visc @ 40°C	cSt	ASTM D445	2.49	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	62.4	---	---
Cloud Point	°C	ASTM D5771	-11	---	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	285	---	---
Sulfur (UVF)	ppm	ASTM D5453	321	---	---

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	174	---	---
5% Distillation Point	°C	ASTM D86	197	---	---
10% Distill Point	°C	ASTM D86	206	---	---
15% Distillation Point	°C	ASTM D86	214	---	---
20% Distill Point	°C	ASTM D86	221	---	---
30% Distill Point	°C	ASTM D86	236	---	---
40% Distill Point	°C	ASTM D86	249	---	---
50% Distill Point	°C	ASTM D86	262	---	---
60% Distill Point	°C	ASTM D86	276	---	---
70% Distill Point	°C	ASTM D86	290	---	---
80% Distill Point	°C	ASTM D86	305	---	---
85% Distillation Point	°C	ASTM D86	315	---	---
90% Distill Point	°C	ASTM D86	325	---	---
95% Distillation Point	°C	ASTM D86	342	---	---
Final Boiling Point	°C	ASTM D86	356	---	---

IGNITION QUALITY

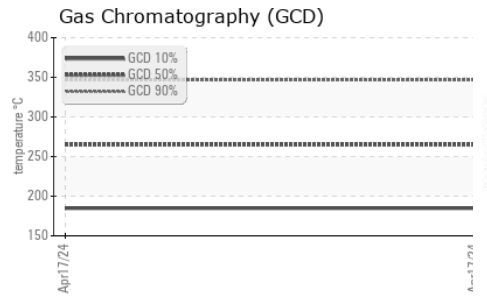
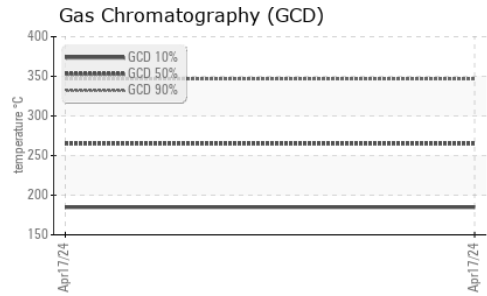
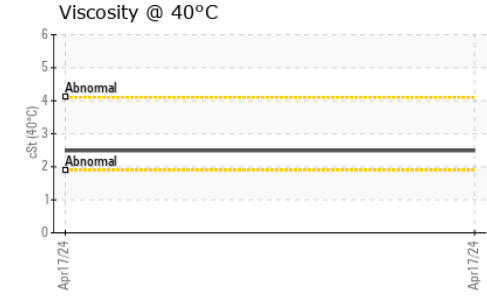
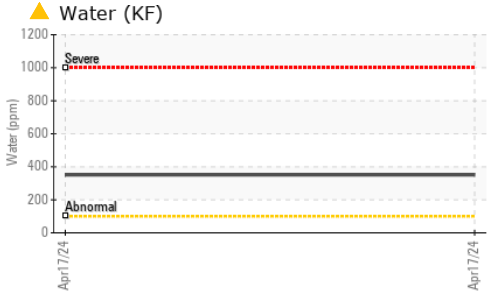
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		36	---	---
Cetane Index	ASTM D4737	<40.0	47	---	---

CONTAMINANTS


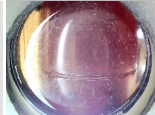
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---
Sodium	ppm	ASTM D5185m	<0.1	0	---
Potassium	ppm	ASTM D5185m	<0.1	0	---
Water	%	ASTM D6304	<0.05	▲ 0.035	---
ppm Water	ppm	ASTM D6304	<500	▲ 351	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	---



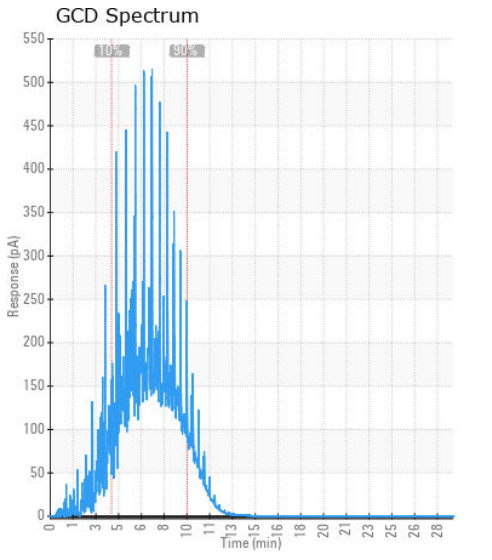
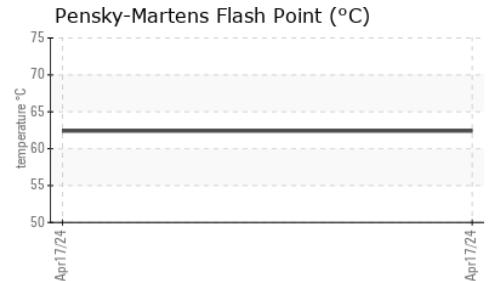
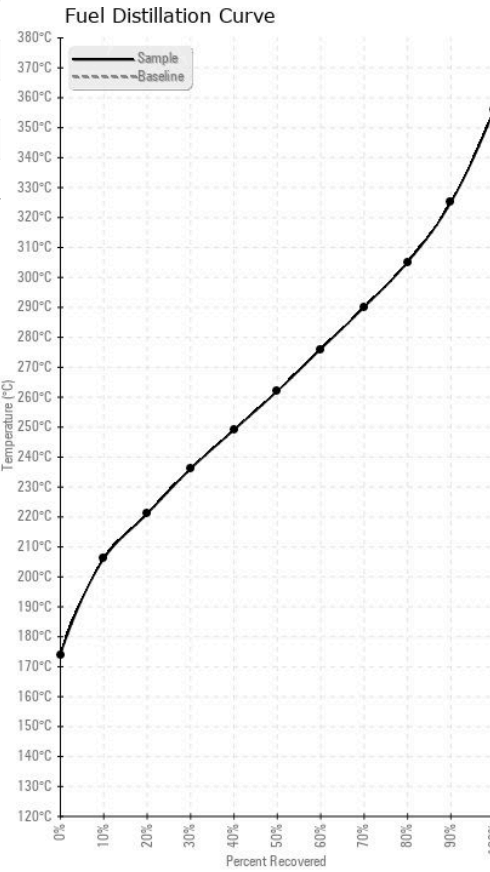
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	0	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	---	---
Magnesium	ppm	ASTM D5185m	<0.1	0	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	---	---
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. : WCDF4596 **Received** : 24 Apr 2024
Lab Number : 06159571 **Tested** : 06 May 2024
Unique Number : 10994994 **Diagnosed** : 06 May 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: CldPt, Fuel, PrtCount, Screen)

TANK WIZARDS
 1511 MASTERS RD NW
 PALM BAY, FL
 US 32907
 Contact: WENDALL STRODERD
 wendall@tankwizards.com

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)