



# FUEL REPORT

Sample Rating Trend



**WATER**



Machine Id  
**HCA FLORIDA LAWNWOOD HOSPITAL FIRE PUMP CAT SCAN**  
 Component  
**Bulk Tank Diesel Fuel**  
 Fluid  
**DDSL (1200 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you perform a filter service, 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

There is a light concentration of water 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			<b>WCDF4599</b>	---	---
Sample Date	Client Info			<b>17 Apr 2024</b>	---	---
Machine Age	mls	Client Info		<b>0</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		<b>Red</b>	---	---
ASTM Color	scalar	*ASTM D1500		<b>L5.5</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>2.7</b>	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		<b>66.8</b>	---	---
Cloud Point	°C	ASTM D5771		<b>-11</b>	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>279</b>	---	---
Sulfur (UVF)	ppm	ASTM D5453		<b>314</b>	---	---

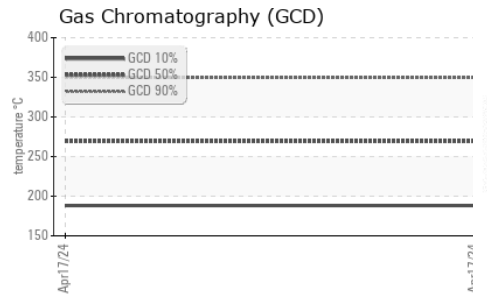
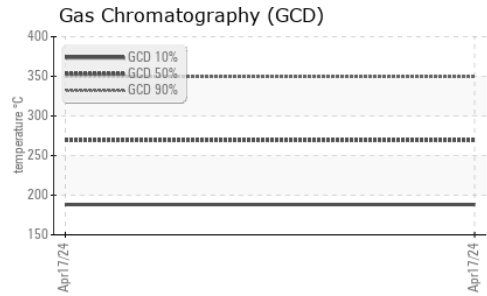
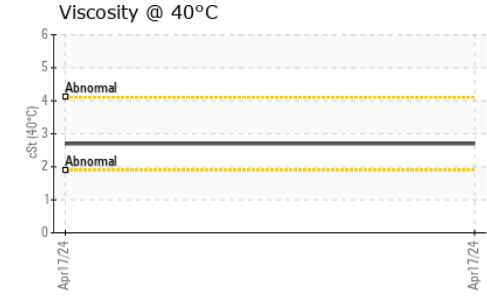
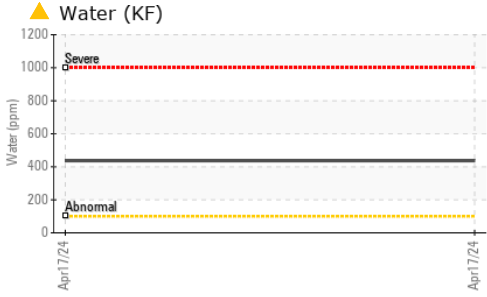
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>178</b>	---	---
5% Distillation Point	°C	ASTM D86		<b>200</b>	---	---
10% Distill Point	°C	ASTM D86		<b>210</b>	---	---
15% Distillation Point	°C	ASTM D86		<b>217</b>	---	---
20% Distill Point	°C	ASTM D86		<b>225</b>	---	---
30% Distill Point	°C	ASTM D86		<b>240</b>	---	---
40% Distill Point	°C	ASTM D86		<b>253</b>	---	---
50% Distill Point	°C	ASTM D86		<b>266</b>	---	---
60% Distill Point	°C	ASTM D86		<b>279</b>	---	---
70% Distill Point	°C	ASTM D86		<b>292</b>	---	---
80% Distill Point	°C	ASTM D86		<b>307</b>	---	---
85% Distillation Point	°C	ASTM D86		<b>318</b>	---	---
90% Distill Point	°C	ASTM D86		<b>328</b>	---	---
95% Distillation Point	°C	ASTM D86		<b>345</b>	---	---
Final Boiling Point	°C	ASTM D86		<b>367</b>	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>35</b>	---	---
Cetane Index		ASTM D4737	<40.0	<b>47</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	---	---
Sodium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	---	---
Water	%	ASTM D6304	<0.05	<b>▲ 0.043</b>	---	---
ppm Water	ppm	ASTM D6304	<500	<b>437</b>	---	---
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	---	---



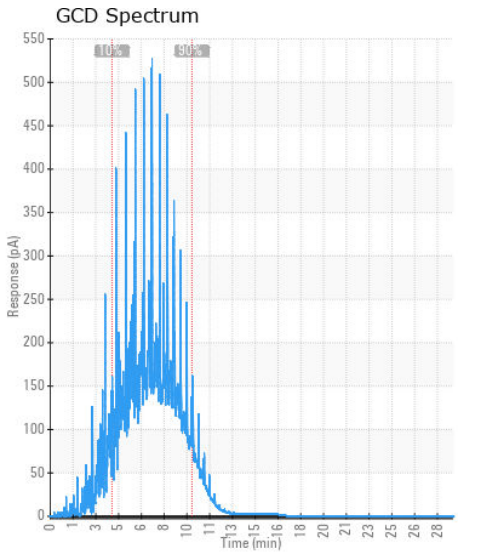
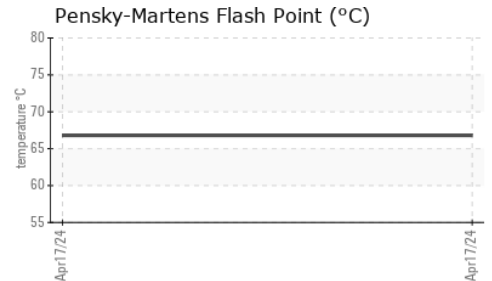
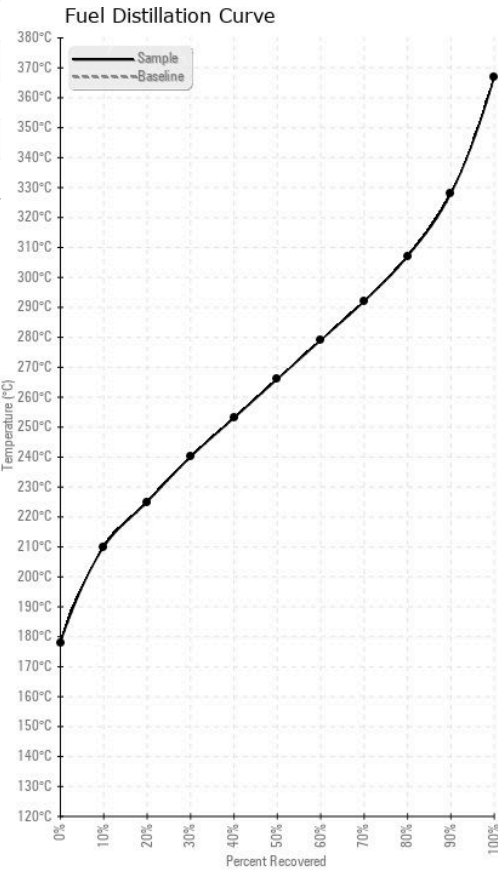
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	0	---	---
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.** : WCDF4599      **Received** : 24 Apr 2024  
**Lab Number** : 06159570      **Tested** : 06 May 2024  
**Unique Number** : 10994993      **Diagnosed** : 06 May 2024 - Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: CldPt, Fuel, PrtCount, Screen )

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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)