

# FUEL REPORT

Sample Rating Trend

WATER

#### Machine Id HCA FLORIDA LAWNWOOD HOSPITAL EMERGENCY GEN Component Bulk Tank Diesel Fuel Fluid

DDSL (3400 GAL)

# DIAGNOSIS

#### A 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.

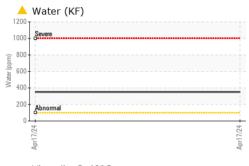
# **Fuel Condition**

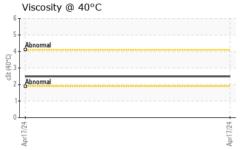
Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info	mmbase	WCDF4596		
Sample Date		Client Info		17 Apr 2024		
Machine Age	mls	Client Info		0		
Sample Status	11113			SEVERE		
	_			OEVENE		
PHYSICAL PROP	ERTIES	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 CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		285		
Sulfur (UVF)	ppm	ASTM D5453		321		
DISTILLATION		method	limit/base	current	history1	history2
	00				-	
Initial Boiling Point	°C	ASTM D86		174		
5% Distillation Point	°C	ASTM D86 ASTM D86		197		
10% Distill Point 15% Distillation Point	°C			206 214		
20% Distill Point	°C °C	ASTM D86 ASTM D86		214		
30% Distill Point	°C	ASTM D86		221		
40% Distill Point	°C	ASTM D86		236		
50% Distill Point	°C	ASTM D86		249		
60% Distill Point	°C	ASTM D86		202		
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 QUALIT	ΓY	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 D5105111	<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		
				0.0		



# FUEL REPORT





380°C 370°C

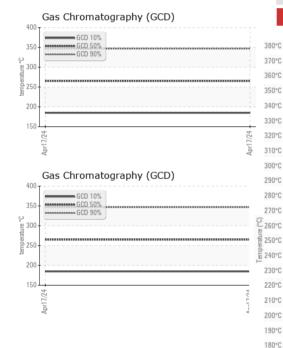
360°C

350°C

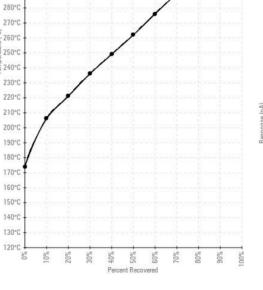
340°C 330°C

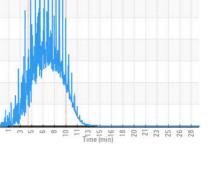
300°C

290°C



Sample Sample C C C C C C C C C C C C C	HEAVY METALS		method	limit/base	current	history1	history2
Nickel       ppm       ASTM D5185m       <0.1       0           Vanadium       ppm       ASTM D5185m       <0.1	Aluminum	ppm	ASTM D5185m	<0.1	0		
Vanadium       ppm       ASTM D5185m       <0.1	Nickel	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 SAMPLE IMAGES method imit/base current history1 history2 Color Ino image no image Bottom no image no image GRAPHS Fuel Distillation Curve GGD Spectrum GCD Spectrum GCD Spectrum	Lead	ppm	ASTM D5185m	<0.1	0		
Calcium ppm ASTM D5185m <0.1	Vanadium	ppm	ASTM D5185m	<0.1	0		
Magnesium ppm ASTM D5185m <0.1	Iron	ppm	ASTM D5185m	<0.1	0		
Phosphorus       ppm       ASTM D5185m       <0.1       0           SAMPLE IMAGES       method       limit/base       current       history1       history2         Color       imit/base       current       history1       history2         Bottom       imit/base       current       history1       history2         GCO       Pensky-Martens Flash Point (°C)       oimage       no image         GCD Spectrum       of the pensky flash point (°C)       of the pensky flash point (°C)       of the pensky flash point (°C)         of the pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)         of the pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)         of the pensky flash point (°C)         of the pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)         of the pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)       pensky flash point (°C)         of the pensky flash point poin	Calcium	ppm	ASTM D5185m	<0.1	0		
Zinc       ppm       ASTM D5185m <0.1       0           SAMPLE IMAGES       method       limit/base       current       history1       history2         Color       Image       no image       no image       no image       no image         Bottom       Image       no image       no image       no image       no image         Fuel Distillation Curve       Pensky-Martens Flash Point (°C)       Image       Image       Image       Image         GCD Spectrum       Image       Image       Image       Image       Image       Image       Image         Image       Image       Image       Image       Image       Image       Image       Image       Image       Image         Image <th< td=""><td>-</td><td>ppm</td><td></td><td>&lt;0.1</td><td>0</td><td></td><td></td></th<>	-	ppm		<0.1	0		
SAMPLE IMAGES method limit/base current history1 history2 Color no image no image Bottom no image no image GRAPHS Fuel Distillation Curve GCD Spectrum GCD Spectrum	Phosphorus	ppm	ASTM D5185m	<0.1	0		
Color no image no image Bottom no image no image no image no image no image no image no image	Zinc	ppm	ASTM D5185m	<0.1	0		
Bottom no image no image CRAPHS Fuel Distillation Curve	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
CRAPHS Fuel Distillation Curve	Color					no image	no image
Fuel Distillation Curve Pensky-Martens Flash Point (°C) Pensky-Martens Flash Point (°C) Pensky-M	Bottom					no image	no image
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	c /			20	0-		
	c /						
	c /			e (b/	0+		
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	c d						





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 TANK WIZARDS Sample No. : WCDF4596 Received : 24 Apr 2024 1511 MASTERS RD NW Lab Number : 06159571 Tested :06 May 2024 PALM BAY, FL Unique Number : 10994994 Diagnosed : 06 May 2024 - Doug Bogart US 32907 Test Package : DF-2 (Additional Tests: CldPt, Fuel, PrtCount, Screen) Contact: WENDALL STRODERD Certificate 12367 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. T: (321)427-5149 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (321)574-4131

Report Id: TANPAL [WUSCAR] 06159571 (Generated: 05/06/2024 13:15:07) Rev: 1

Contact/Location: 321-285-8878 X1 - WENDALL STRODERD - TANPAL

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