

## **FUEL REPORT**

#### Sample Rating Trend



# HFB.A.C.K CENTER GENERATOR

Diesel Fuel

### No.2 DIESEL FUEL (ULTRALOW SULPHUR) (4000 GAL)

#### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

#### Corrosion

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

#### Contaminants

There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel.

#### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMAT Sample Number Sample Date	ION method Client Info	limit/base	current	history1	history2
	Client Info				
Sample Date			WCDF4524		
	Client Info		11 Mar 2024		
Machine Age mls	Client Info		0		
Sample Status			NORMAL		
PHYSICAL PROPER	<b>FIES</b> method	limit/base	current	history1	history2
Fuel Color tex	t *Visual Screen	Yllow	Red		
ASTM Color sca	alar *ASTM D1500		L4.5		
Visc @ 40°C cSi	t ASTM D445	3.0	2.6		
Pensky-Martens Flash Point °C	*PMCC Calculated	52	68		
Cloud Point °C	ASTM D5771		-10		
SULFUR CONTENT	method	limit/base	current	history1	history2
Sulfur pp	m ASTM D5185m	10	0		
Sulfur (UVF) pp	m ASTM D5453		6		
DISTILLATION	method	limit/base	current	history1	history2
Initial Boiling Point °C	ASTM D86	165	178		
5% Distillation Point °C	ASTM D86		196		
10% Distill Point °C	ASTM D86	201	206		
15% Distillation Point °C	ASTM D86		214		
20% Distill Point °C	ASTM D86	216	222		
30% Distill Point °C	ASTM D86	230	238		
40% Distill Point °C	ASTM D86	243	252		
50% Distill Point °C	ASTM D86	255	266		
60% Distill Point °C	ASTM D86	267	280		
70% Distill Point °C	ASTM D86	280	295		
80% Distill Point °C	ASTM D86	295	310		
85% Distillation Point °C	ASTM D86		321		
90% Distill Point °C	ASTM D86	310	332		
95% Distillation Point °C	ASTM D86		348		
Final Boiling Point °C	ASTM D86	341	361		
IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	37.0		
Cetane Index	ASTM D4737	<40.0	51		
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon pp	m ASTM D5185m	<1.0	0		
Sodium pp	m ASTM D5185m	<0.1	<1		
Potassium ppi	m ASTM D5185m	<0.1	<1		
Water %	ASTM D6304	< 0.05	0.001		
ppm Water pp	m ASTM D6304	<500	6		
% Gasoline %	*In-House	<0.50	0.0		
% Biodiesel %	*In-House	<20.0	0.0		



cSt (40°C) Bas

400

35

300 dig 250 200 150 1/24 Marl

400

## **FUEL REPORT**

Water (KF)	HEAVY METAL	LS	method	limit/base	current	history1	
Severe	Aluminum	ppm	ASTM D5185m	<0.1	0		
0	Nickel	ppm	ASTM D5185m	<0.1	0		
Abnormal	Lead	ppm	ASTM D5185m	<0.1	0		-
μ	Vanadium	ppm	ASTM D5185m	<0.1	0		-
o <del>-</del>	Iron	ppm	ASTM D5185m	<0.1	0		-
	Calcium	ppm	ASTM D5185m		0		-
Mar11/24	Magnesium	ppm	ASTM D5185m	<0.1	0		-
Ma	Phosphorus	ppm	ASTM D5185m		0		-
Viscosity @ 40°C	Zinc	ppm	ASTM D5185m	<0.1	0		-
	SAMPLE IMAG	BES	method				
Abnomal							
Base	Color					no image	,
2 + Abnormal	00101					nomago	
1-							
0							
Mar11/24	Bottom					no image	1
Mai							
Gas Chromatography (GCD)	GRAPHS						
Gas Chromatography (GCD)	GRAPHS						
GCD 10%	Fuel Distillation	Curve				ns Flash Point (	(°C)
0 T	Fuel Distillation	Curve		8		ns Flash Point (	(°C)
GCD 10% GCD 50% GCD 90%	Fuel Distillation	Curve		7	0	ns Flash Point (	(°C)
GCD 10%	Fuel Distillation	Curve		ر ب	0 T	ns Flash Point (	(°C)
GCD 10% GCD 50% GCD 90%	Fuel Distillation	Curve		ر ب	0 T	ns Flash Point (	(°C)
GCD 10% GCD 50% GCD 90%	Fuel Distillation	Curve		7	0	ns Flash Point (	(°C)
GCD 10% GCD 56% GCD 50%	Fuel Distillation	Curve		temperature °C	5	ns Flash Point (	(°C)
GCD 10% GCD 50% GCD 90%	Fuel Distillation 380°C 370°C 360°C 350°C 340°C 330°C	Curve		7 J. antheadura 6 6	5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ns Flash Point (	(°C)
GCD 10% GCD 50% GCD 90% GCD 90% GCD 90% GCD 90%	Fuel Distillation	Curve		7 J. antheadura 6 6	5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		(°C)
GCD 10% GCD 50% GCD 90% F2/11/28W GCD 50% GCD 90% GCD 90% F2/11/28W GCD 50% GCD 90%	Fuel Distillation 380°C 360°C 350°C 340°C 330°C 320°C 310°C 290°C	Curve		7 0, antreaduat 6 5	GCD Spectrum		(°C)
Gas Chromatography (GCD)	Fuel Distillation 380°C 360°C 360°C 340°C 330°C 320°C 310°C 290°C 280°C 280°C	Curve		7 0, ann ann beaduat 6 5 65	GCD Spectrum		(°C)
GCD 10% GCD 50% GCD 90% GCD 90% GCD 90% GCD 90% GCD 90% GCD 10% GCD 10	Fuel Distillation	Curve		7 0, ann 6 6 5 60	GCD Spectrun	n	(°C)
Gas Chromatography (GCD)	Fuel Distillation	Curve		7 2, any 6 6 5 65 60 55	GCD Spectrum	n	(°C)
Gas Chromatography (GCD)	Fuel Distillation	Curve		7 0, ann 6 6 5 60	GCD Spectrum	n	(°C)
Gas Chromatography (GCD)	Fuel Distillation 380°C 370°C 360°C 360°C 340°C 330°C 320°C 300°C 280°C	Curve		7 2, any 6 6 5 65 60 55	GCD Spectrum	n	(°C)
Gas Chromatography (GCD)	Sample           380°C         Sample           360°C         Sample           360°C         Sample           360°C         Sample           350°C         Sample           350°C         Sample           350°C         Sample           30°C         S	Curve		7 0, ann 6 6 5 60 55 50 45 40	GCD Spectrum	n	(°C)
Gas Chromatography (GCD)	Sample           380°C         Sample           360°C         Sample           30°C         Sample           30°C         Sample           30°C         Sample           30°C         Sample           30°C         Sample           20°C         Sample	Curve		7 0, ann 6 6 5 60 55 50 45	GCD Spectrum	n	(°C)

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 TANK WIZARDS Laboratory Sample No. : WCDF4524 Received : 18 Mar 2024 1511 MASTERS RD NW Lab Number : 06121314 Tested : 01 Apr 2024 PALM BAY, FL Unique Number : 10930147 Diagnosed : 01 Apr 2024 - Doug Bogart US 32907 Test Package : DF-2 (Additional Tests: CldPt, Fuel, Screen) Contact: WENDALL STRODERD Certificate L2367 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

Recovered

70%

80%

40% 50%

Perc

20%

%00

90%

Report Id: TANPAL [WUSCAR] 06121314 (Generated: 04/01/2024 15:10:02) Rev: 1

190°C

180°

170°0 160°C

150°C

140°C

130°C

120°C

%0 10%

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