



FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
HF B.A.C.K CENTER GENERATOR

Component
Diesel Fuel
Fluid

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WCDF4524	---	---
Sample Date	Client Info		11 Mar 2024	---	---
Machine Age	mls	Client Info	0	---	---
Sample Status			NORMAL	---	---

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	2.6	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	68	---
Cloud Point	°C	ASTM D5771		-10	---

SULFUR CONTENT

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

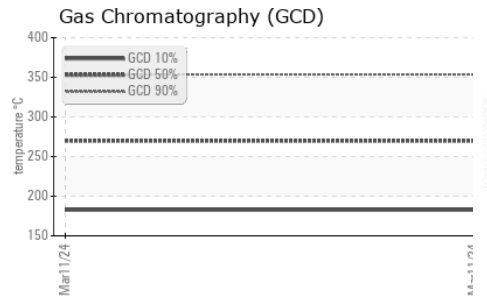
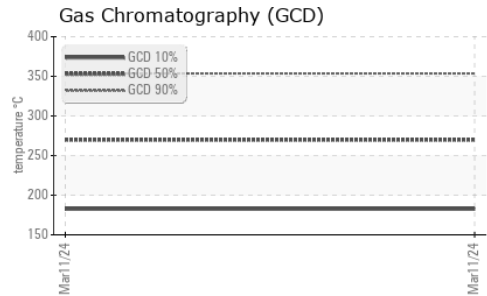
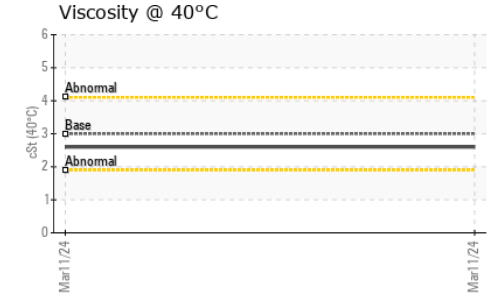
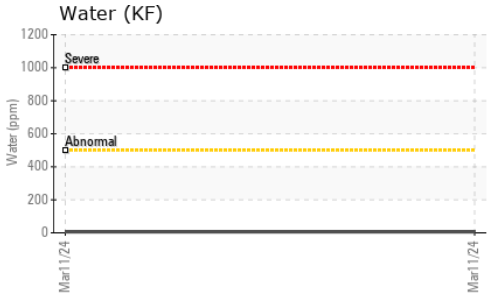
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	37.0	---	---
Cetane Index	ASTM D4737	<40.0	51	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---
Sodium	ppm	ASTM D5185m	<0.1	<1	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---
Water	%	ASTM D6304	<0.05	0.001	---
ppm Water	ppm	ASTM D6304	<500	6	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	---



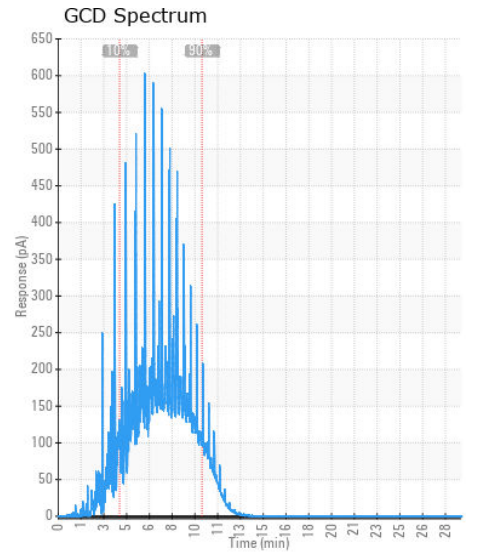
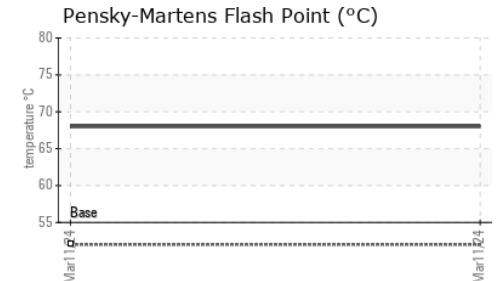
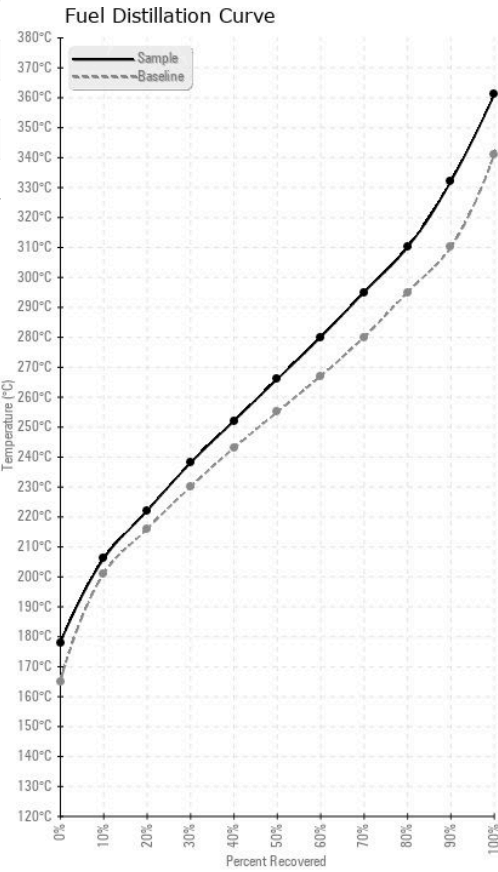
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	0	---	---
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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCDF4524 **Received** : 18 Mar 2024
Lab Number : 06121314 **Tested** : 01 Apr 2024
Unique Number : 10930147 **Diagnosed** : 01 Apr 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: CldPt, Fuel, 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)