



FUEL REPORT

Sample Rating Trend

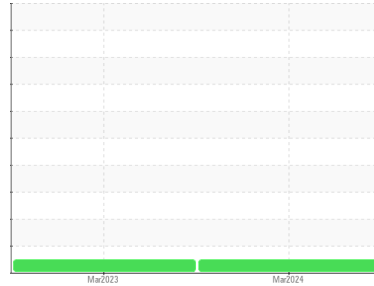
NORMAL



Machine Id
HF BUSINESS CENTER MTU 1

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (700 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		WCDF4553	WCDF4350	---
Sample Date	Client Info		13 Mar 2024	16 Mar 2023	---
Machine Age	mls	Client Info	0	0	---
Sample Status			NORMAL	NORMAL	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	0.839	---	0.847	---
Fuel Color	text	*Visual Screen	Yellow	Red	---
ASTM Color	scalar	*ASTM D1500	L4.5	L4.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.67	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	65	---
Cloud Point	°C	ASTM D5771	-12	-12	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	4	---
Sulfur (UVF)	ppm	ASTM D5453	8	10	---

DISTILLATION

	method	limit/base	current	history1	history2	
Initial Boiling Point	°C	ASTM D86	165	179	176	---
5% Distillation Point	°C	ASTM D86		202	199	---
10% Distill Point	°C	ASTM D86	201	212	210	---
15% Distillation Point	°C	ASTM D86		220	219	---
20% Distill Point	°C	ASTM D86	216	227	227	---
30% Distill Point	°C	ASTM D86	230	242	240	---
40% Distill Point	°C	ASTM D86	243	254	253	---
50% Distill Point	°C	ASTM D86	255	267	266	---
60% Distill Point	°C	ASTM D86	267	279	279	---
70% Distill Point	°C	ASTM D86	280	292	292	---
80% Distill Point	°C	ASTM D86	295	305	307	---
85% Distillation Point	°C	ASTM D86		315	315	---
90% Distill Point	°C	ASTM D86	310	325	326	---
95% Distillation Point	°C	ASTM D86		341	342	---
Final Boiling Point	°C	ASTM D86	341	354	350	---
Distillation Residue	%	ASTM D86	3.0	---	1.4	---
Distillation Loss	%	ASTM D86	3.0	---	0.8	---

IGNITION QUALITY

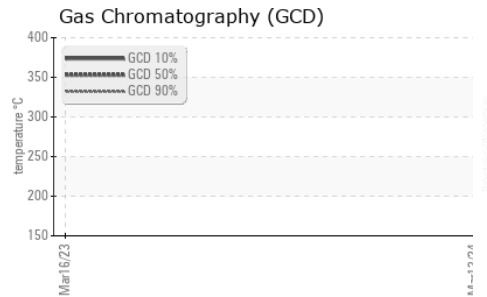
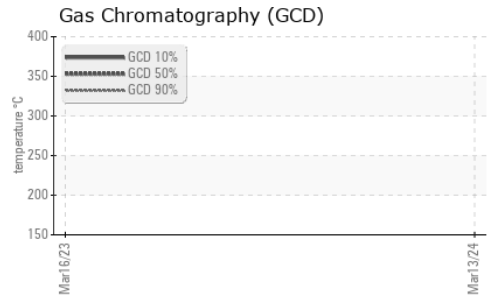
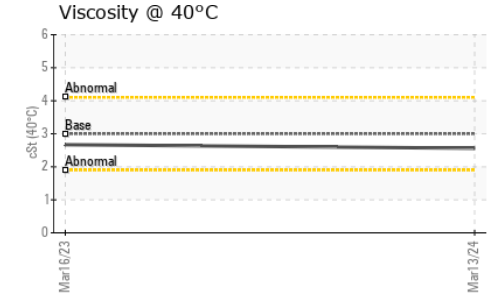
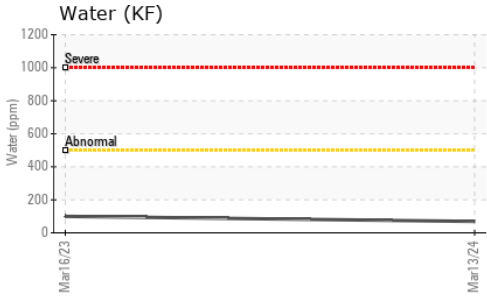
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	37.5	35.6	---
Cetane Index	ASTM D4737	<40.0	51	47.6	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<1.0	0	1	---
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	---
Potassium	ppm	ASTM D5185m	<0.1	<1	0	---
Water	%	ASTM D6304	<0.05	0.006	0.009	---
ppm Water	ppm	ASTM D6304	<500	69	99.7	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---



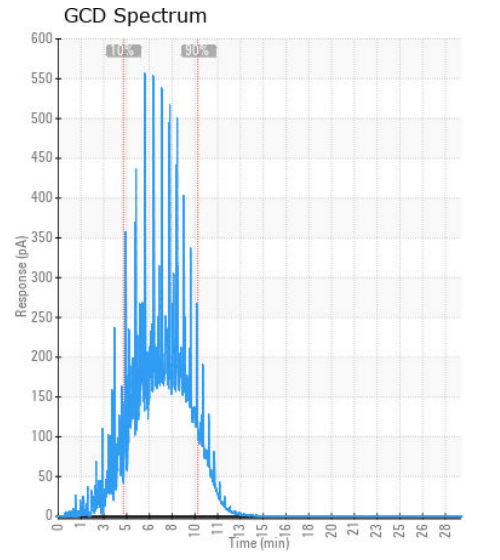
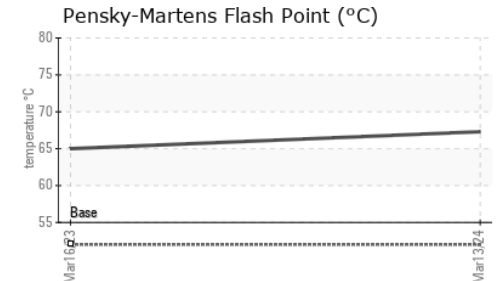
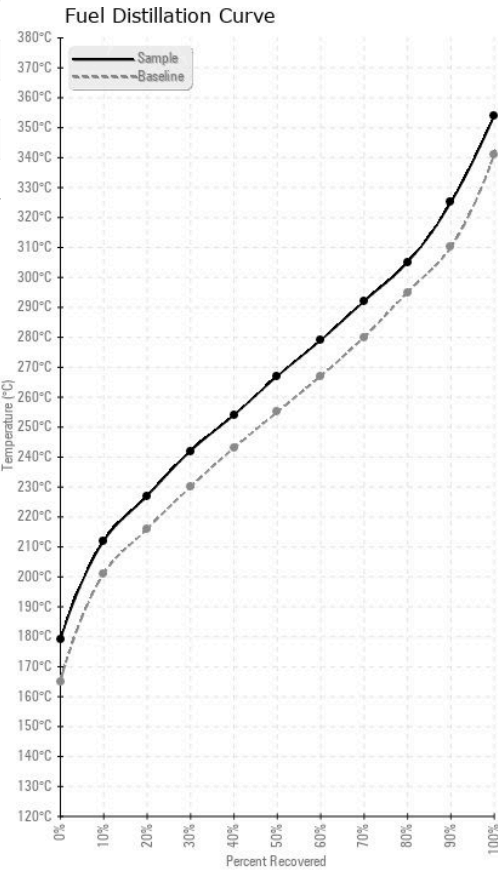
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	<1	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	<1	---
Iron	ppm	ASTM D5185m	<0.1	0	0	---
Calcium	ppm	ASTM D5185m	<0.1	<1	0	---
Magnesium	ppm	ASTM D5185m	<0.1	<1	3	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	7	---
Zinc	ppm	ASTM D5185m	<0.1	0	0	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCDF4553 **Received** : 18 Mar 2024
Lab Number : 06121306 **Tested** : 01 Apr 2024
Unique Number : 10930139 **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)