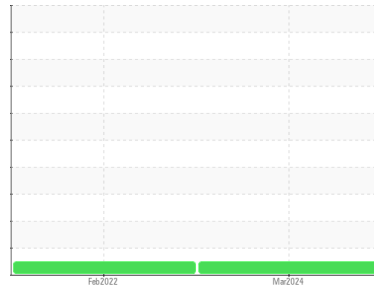




FUEL REPORT

Sample Rating Trend



NORMAL



Area

[25217]

Machine Id

GWV HOSPITAL TANK 2 (S/N 182326)

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (LOW-SULPHUR) (5000 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

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. 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			DCDF02603	DCDF04094	---
Sample Date	Client Info			22 Mar 2024	11 Feb 2022	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				NORMAL	NORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	0.837	0.836	---
Fuel Color	text	*Visual Screen	Yellow	Red	Red	---
ASTM Color	scalar	*ASTM D1500		L4.0	L4.0	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.27	2.26	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59	61	---
Cloud Point	°C	ASTM D5771		-12	-12	---
Pour Point	°C	ASTM D5950		-23	-24	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	250	0	15	---
Sulfur (UVF)	ppm	ASTM D5453		11	13	---

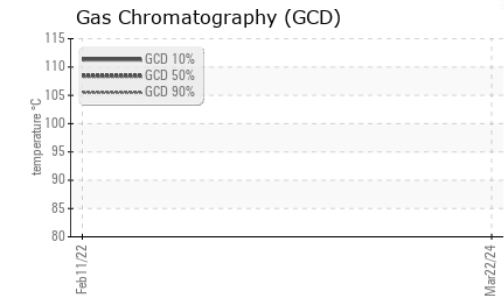
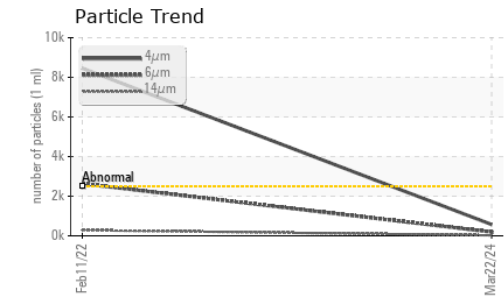
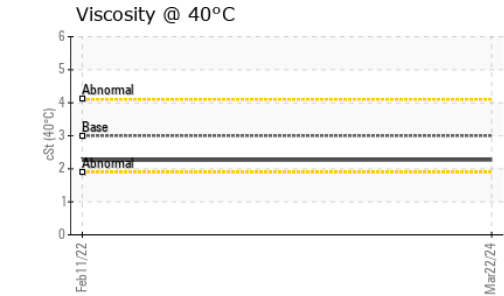
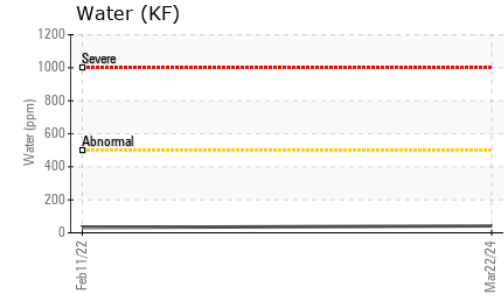
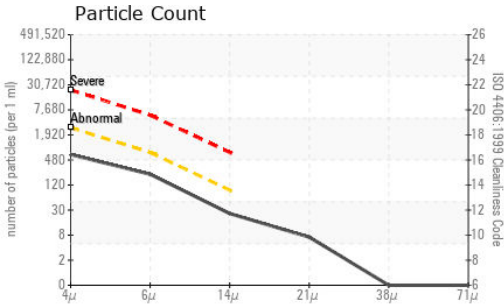
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	165	166	---
5% Distillation Point	°C	ASTM D86		186	188	---
10% Distill Point	°C	ASTM D86	201	195	196	---
15% Distillation Point	°C	ASTM D86		203	203	---
20% Distill Point	°C	ASTM D86	216	211	210	---
30% Distill Point	°C	ASTM D86	230	225	223	---
40% Distill Point	°C	ASTM D86	243	239	237	---
50% Distill Point	°C	ASTM D86	255	253	252	---
60% Distill Point	°C	ASTM D86	267	267	266	---
70% Distill Point	°C	ASTM D86	280	284	283	---
80% Distill Point	°C	ASTM D86	295	301	301	---
85% Distillation Point	°C	ASTM D86		312	311	---
90% Distill Point	°C	ASTM D86	310	324	324	---
95% Distillation Point	°C	ASTM D86		342	341	---
Final Boiling Point	°C	ASTM D86	341	351	351	---
Distillation Residue	%	ASTM D86	3.0	1.4	1.4	---
Distillation Loss	%	ASTM D86	3.0	0.7	0.6	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37.6	37.8	---
Cetane Index		ASTM D4737	<40.0	47.8	48.2	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	---
Sodium	ppm	ASTM D5185m	<0.1	<1	0	---
Potassium	ppm	ASTM D5185m	<0.1	0	1	---
Water	%	ASTM D6304	<0.05	0.004	0.003	---
ppm Water	ppm	ASTM D6304	<500	42	32.0	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---




FUEL REPORT




FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	571	8458	---
Particles >6µm	ASTM D7647	>640	192	2632	---
Particles >14µm	ASTM D7647	>80	22	285	---
Particles >21µm	ASTM D7647	>20	6	86	---
Particles >38µm	ASTM D7647	>4	0	2	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	16/15/12	20/19/15	---

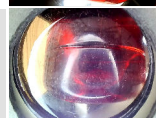
HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	1	---
Nickel	ppm	ASTM D5185m <0.1	0	0	---
Lead	ppm	ASTM D5185m <0.1	0	<1	---
Vanadium	ppm	ASTM D5185m <0.1	0	0	---
Iron	ppm	ASTM D5185m <0.1	0	0	---
Calcium	ppm	ASTM D5185m <0.1	0	2	---
Magnesium	ppm	ASTM D5185m <0.1	0	<1	---
Phosphorus	ppm	ASTM D5185m <0.1	0	0	---
Zinc	ppm	ASTM D5185m <0.1	0	0	---


SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					





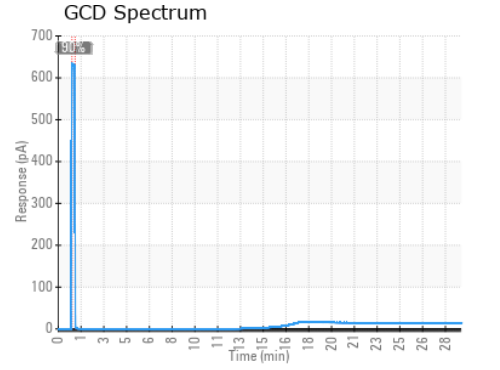
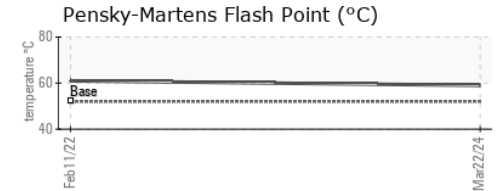
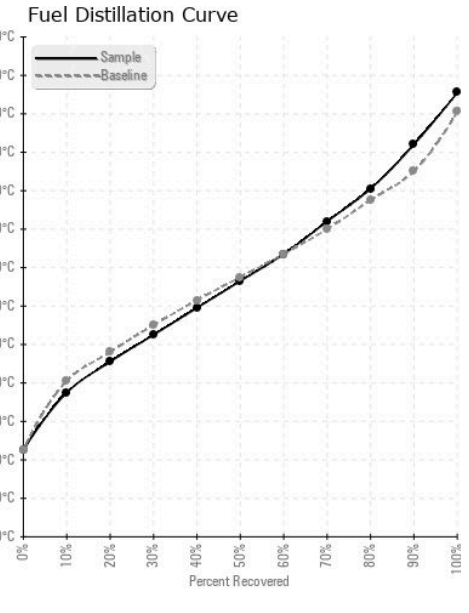
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DCDF02603 **Received** : 02 Apr 2024
Lab Number : **06136728** **Tested** : 12 Apr 2024
Unique Number : 10956193 **Diagnosed** : 12 Apr 2024 - Doug Bogart
Test Package : DF-3 (Additional Tests: Fuel, Screen)

CURTIS ENGINE
 3915 BENSON AVE
 BALTIMORE, MD
 US 21227
 Contact: CHARNETTE WATERS
 CWATERS@CURTISPS.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.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)