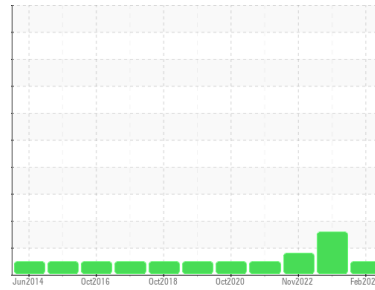




FUEL REPORT

Sample Rating Trend



NORMAL



Area

HOSPITAL

Machine Id

15000 ABOVE GROUND DUKE DMP TANK 3

Component

Diesel Fuel

Fluid

{not provided} (15000 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. The amount and size of particulates present in the system are acceptable.

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		WC06098064	WC06019850	WC05687561
Sample Date	Client Info		21 Feb 2024	27 Nov 2023	07 Nov 2022
Machine Age	hrs	Client Info	0	0	0
Sample Status			NORMAL	ATTENTION	ATTENTION

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		0.841	0.841	0.841
Fuel Color	text	*Visual Screen	Red	Red	Red
ASTM Color	scalar	*ASTM D1500	L4.5	L4.5	L4.0
Visc @ 40°C	cSt	ASTM D445	2.46	2.5	2.46
Pensky-Martens Flash Point	°C	*PMCC Calculated	58	60	62

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	0	0	0
Sulfur (UVF)	ppm	ASTM D5453	8	10	11

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	162	167	166
5% Distillation Point	°C	ASTM D86	188	191	190
10% Distill Point	°C	ASTM D86	200	201	201
15% Distillation Point	°C	ASTM D86	208	209	209
20% Distill Point	°C	ASTM D86	216	217	217
30% Distill Point	°C	ASTM D86	231	230	231
40% Distill Point	°C	ASTM D86	245	245	245
50% Distill Point	°C	ASTM D86	259	259	259
60% Distill Point	°C	ASTM D86	274	274	274
70% Distill Point	°C	ASTM D86	288	289	289
80% Distill Point	°C	ASTM D86	305	306	306
85% Distillation Point	°C	ASTM D86	315	316	316
90% Distill Point	°C	ASTM D86	326	327	327
95% Distillation Point	°C	ASTM D86	343	343	344
Final Boiling Point	°C	ASTM D86	350	350	351
Distillation Residue	%	ASTM D86	1.4	1.4	1.4
Distillation Loss	%	ASTM D86	0.7	0.5	0.5

IGNITION QUALITY

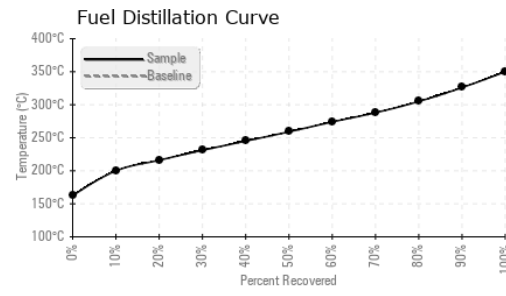
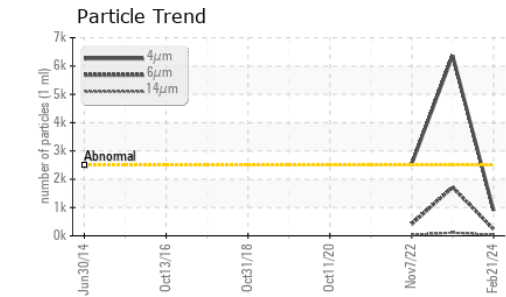
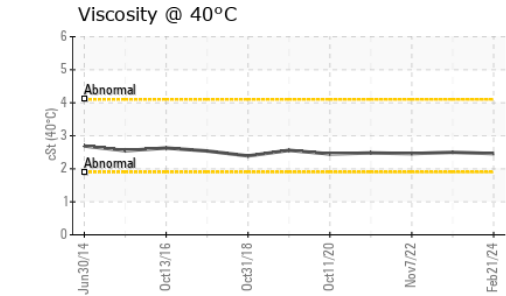
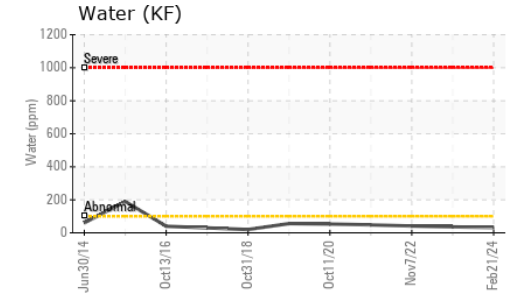
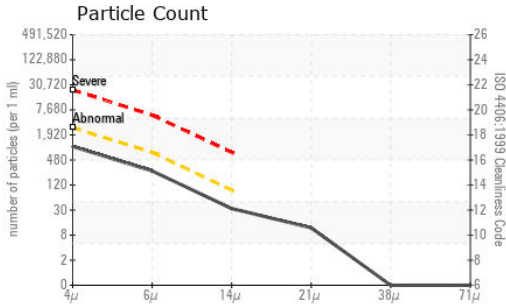
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		36.8	36.8	36.8
Cetane Index	ASTM D4737	<40.0	47.9	48.0	48.0

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<1.0	<1	0	<1
Sodium	ppm	ASTM D5185m	<0.1	<1	<1	0
Potassium	ppm	ASTM D5185m	<0.1	<1	0	0
Water	%	ASTM D6304	<0.05	0.003	0.003	0.004
ppm Water	ppm	ASTM D6304	<500	32	36	41.2
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	1.5	1.6	0.0



FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	891	6369	2536
Particles >6µm	ASTM D7647	>640	230	1715	423
Particles >14µm	ASTM D7647	>80	29	110	30
Particles >21µm	ASTM D7647	>20	10	19	7
Particles >38µm	ASTM D7647	>4	0	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/12	20/18/14	19/16/12

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06098064 **Received** : 22 Feb 2024
Lab Number : 06098064 **Tested** : 27 Feb 2024
Unique Number : 10896294 **Diagnosed** : 27 Feb 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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 2907 HILLSBOROUGH RD
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 US 27705
 Contact: JESSE BROWN
 jesse@couchoilcompany.com
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 F:

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)