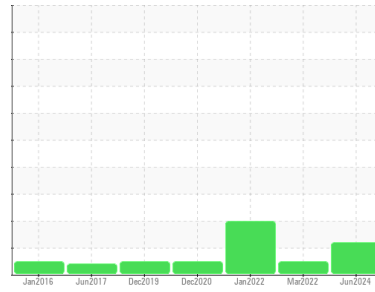




FUEL REPORT

Sample Rating Trend



ISO



Machine Id
NC SPECIALTY HOSPITAL
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

Corrosion

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

Contaminants

There is a high amount of particulates present in the fuel. 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0949582	WC05497527	WC05437435
Sample Date	Client Info			25 Jun 2024	21 Mar 2022	04 Jan 2022
Machine Age	hrs	Client Info		0	0	0
Sample Status				ABNORMAL	NORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	---	0.843	0.843
Fuel Color	text	*Visual Screen	Yllow	Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L4.5	L5.5	L6.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.46	2.46
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.9	65	65

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	250	0	31	30
Sulfur (UVF)	ppm	ASTM D5453		19	145	31

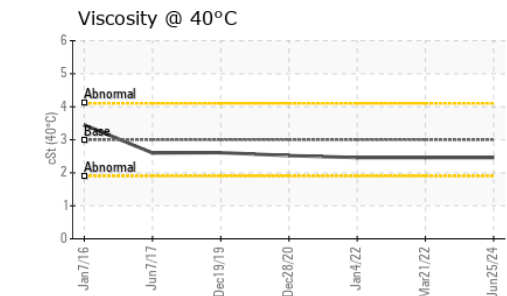
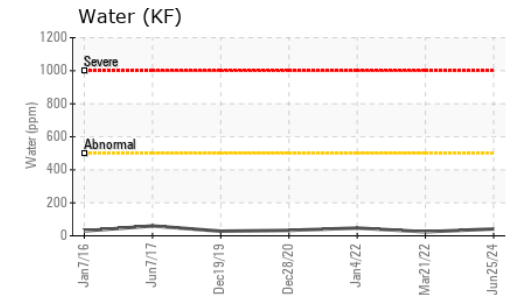
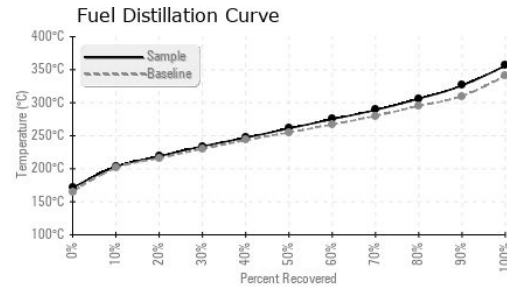
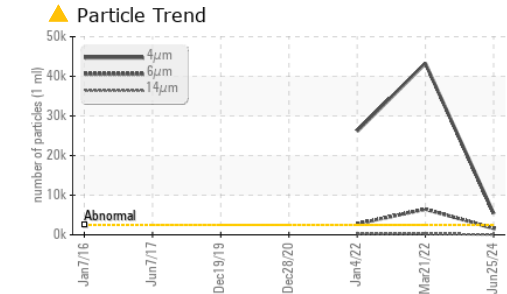
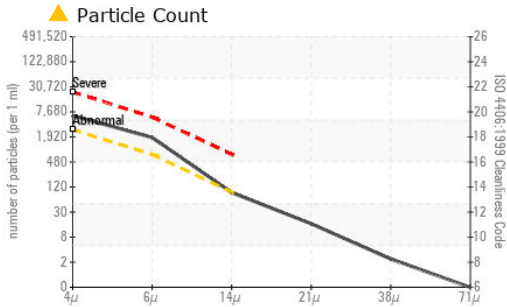
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171	168	168
5% Distillation Point	°C	ASTM D86		194	190	192
10% Distill Point	°C	ASTM D86	201	203	200	202
15% Distillation Point	°C	ASTM D86		211	209	210
20% Distill Point	°C	ASTM D86	216	219	217	218
30% Distill Point	°C	ASTM D86	230	234	232	233
40% Distill Point	°C	ASTM D86	243	247	247	247
50% Distill Point	°C	ASTM D86	255	261	262	262
60% Distill Point	°C	ASTM D86	267	275	276	276
70% Distill Point	°C	ASTM D86	280	289	291	291
80% Distill Point	°C	ASTM D86	295	306	308	307
85% Distillation Point	°C	ASTM D86		316	317	317
90% Distill Point	°C	ASTM D86	310	326	328	328
95% Distillation Point	°C	ASTM D86		343	344	343
Final Boiling Point	°C	ASTM D86	341	356	350	351
Distillation Residue	%	ASTM D86	3.0	---	1.4	1.4
Distillation Loss	%	ASTM D86	3.0	---	0.6	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36	36.4	36.4
Cetane Index		ASTM D4737	<40.0	48	47.6	47.7

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	<1	<1
Sodium	ppm	ASTM D5185m	<0.1	0	0	0
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.004	0.002	0.004
ppm Water	ppm	ASTM D6304	<500	42	24.3	47.3
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	1.5	1.8	1.7



FUEL REPORT



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0949582 **Received** : 26 Jun 2024
Lab Number : 06221765 **Tested** : 03 Jul 2024
Unique Number : 11099962 **Diagnosed** : 03 Jul 2024 - Elizabeth Valachovic
Test Package : DF-2 (Additional Tests: Fuel, Screen)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

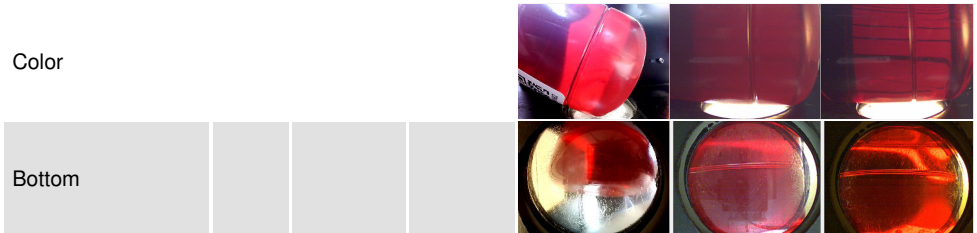
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 5385	43262	▲ 26144
Particles >6µm	ASTM D7647	>640	▲ 1625	6467	▲ 2757
Particles >14µm	ASTM D7647	>80	78	227	▲ 231
Particles >21µm	ASTM D7647	>20	14	25	▲ 93
Particles >38µm	ASTM D7647	>4	2	0	▲ 8
Particles >71µm	ASTM D7647	>3	0	0	1
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/13	23/20/15	▲ 22/19/15

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

SAMPLE IMAGES



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