



FUEL REPORT

Sample Rating Trend

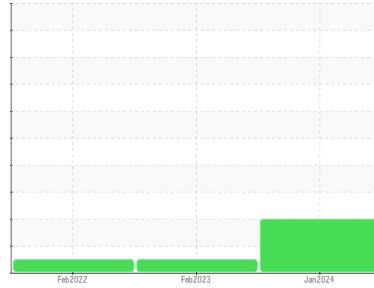
ISO



Machine Id
NYU CANCER CLINICAL CENTER

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (1000 GAL)



DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. 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 a high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

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	WC06073443	WC05761162	WC05461865
Sample Date	Client Info	29 Jan 2024	07 Feb 2023	07 Feb 2022
Machine Age	hrs	0	0	0
Sample Status		ATTENTION	NORMAL	NORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	*ASTM D1298	0.839	0.843	0.841	0.837	
Fuel Color	text	*Visual Screen	Yellow	Red	Red	Orang
ASTM Color	scalar	*ASTM D1500		L4.0	L4.0	L1.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.44	2.5	2.46

SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185m	10	0	0	0
Sulfur (UVF)	ppm	ASTM D5453		13	8	6

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D86	165	166	163	156
5% Distillation Point	°C	ASTM D86		191	189	185
10% Distill Point	°C	ASTM D86	201	202	201	198
15% Distillation Point	°C	ASTM D86		211	211	207
20% Distill Point	°C	ASTM D86	216	219	220	214
30% Distill Point	°C	ASTM D86	230	234	237	229
40% Distill Point	°C	ASTM D86	243	47	252	244
50% Distill Point	°C	ASTM D86	255	260	268	259
60% Distill Point	°C	ASTM D86	267	275	283	275
70% Distill Point	°C	ASTM D86	280	290	298	291
80% Distill Point	°C	ASTM D86	295	307	314	308
85% Distillation Point	°C	ASTM D86		315	322	318
90% Distill Point	°C	ASTM D86	310	326	330	328
95% Distillation Point	°C	ASTM D86		340	342	340
Final Boiling Point	°C	ASTM D86	341	349	350	351
Distillation Residue	%	ASTM D86	3.0	1.4	1.4	1.4
Distillation Loss	%	ASTM D86	3.0	0.5	0.8	0.1

IGNITION QUALITY

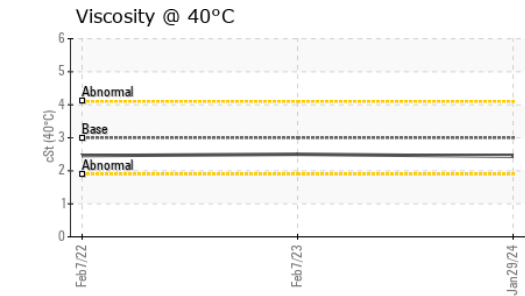
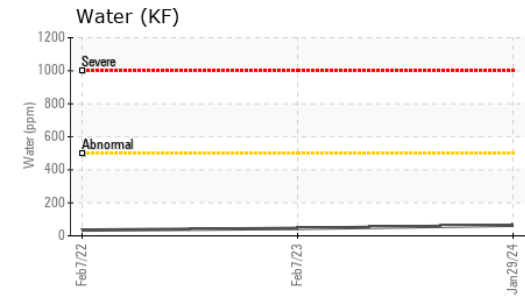
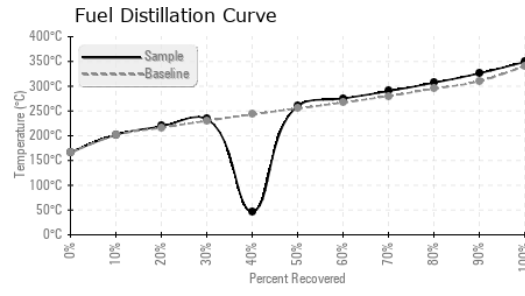
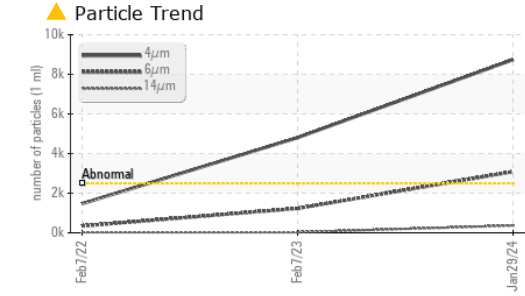
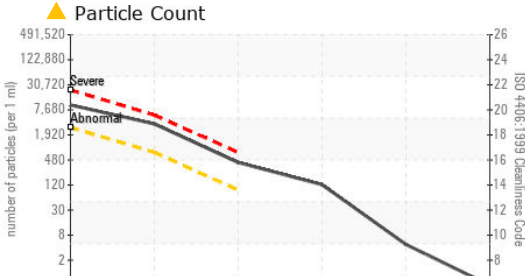
method	limit/base	current	history1	history2	
API Gravity	ASTM D7777	37.7	36.4	36.8	37.6
Cetane Index	ASTM D4737	<40.0	47.4	49.2	48.9

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	0
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.006	0.004	0.003
ppm Water	ppm	ASTM D6304	<500	64	45.0	34.7
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	3.4	6.9	5.7



FUEL REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06073443 **Received** : 29 Jan 2024
Lab Number : 06073443 **Diagnosed** : 06 Feb 2024
Unique Number : 10850120 **Diagnostician** : Doug Bogart
Test Package : DF-1 (Additional Tests: 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	▲ 8741	4806	1471
Particles >6µm	ASTM D7647	>640	▲ 3085	1230	345
Particles >14µm	ASTM D7647	>80	▲ 367	26	28
Particles >21µm	ASTM D7647	>20	▲ 108	3	9
Particles >38µm	ASTM D7647	>4	4	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/19/16	19/17/12	18/16/12

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	0	0
Nickel	ppm	ASTM D5185m <0.1	0	<1	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	0	0
Calcium	ppm	ASTM D5185m <0.1	0	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					