



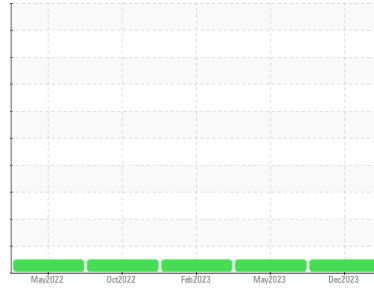
# FUEL REPORT

Sample Rating Trend

**NORMAL**



Area  
**MT/VA/Hospital/NOLA**  
 Machine Id  
**VA HOSPITAL NEW ORLEANS TANK 5**  
 Component  
**Diesel Fuel**  
 Fluid  
**{not provided} (--- QTS)**



## 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. 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			<b>WC06073465</b>	WC05855832	WC05786663
Sample Date	Client Info			<b>13 Dec 2023</b>	17 May 2023	07 Feb 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		<b>0.837</b>	0.837	0.837
Fuel Color	text	*Visual Screen		<b>Red</b>	Red	Red
ASTM Color	scalar	*ASTM D1500		<b>L4.0</b>	L4.5	L4.5
Visc @ 40°C	cSt	ASTM D445		<b>2.36</b>	2.44	2.36

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		<b>0</b>	0	<1
Sulfur (UVF)	ppm	ASTM D5453		<b>4</b>	6	5

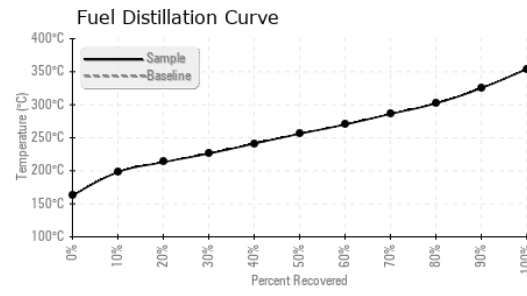
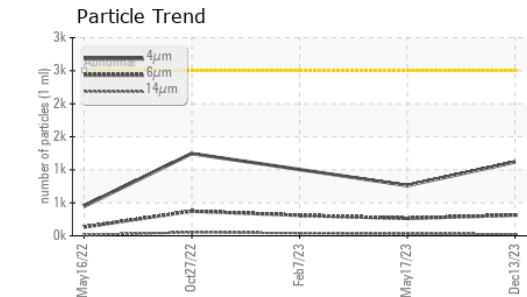
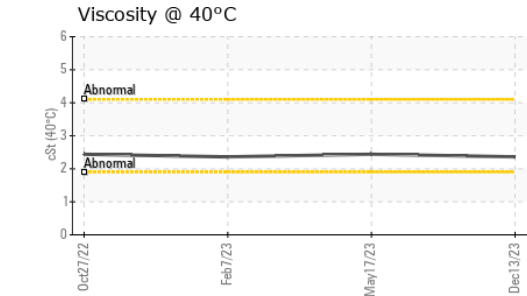
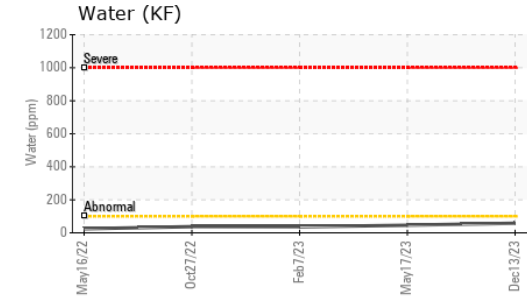
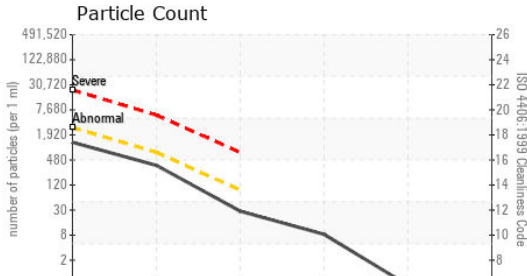
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		<b>162</b>	163	162
5% Distillation Point	°C	ASTM D86		<b>187</b>	187	186
10% Distill Point	°C	ASTM D86		<b>198</b>	198	197
15% Distillation Point	°C	ASTM D86		<b>206</b>	205	205
20% Distill Point	°C	ASTM D86		<b>213</b>	213	213
30% Distill Point	°C	ASTM D86		<b>226</b>	227	228
40% Distill Point	°C	ASTM D86		<b>241</b>	241	242
50% Distill Point	°C	ASTM D86		<b>256</b>	255	256
60% Distill Point	°C	ASTM D86		<b>270</b>	270	270
70% Distill Point	°C	ASTM D86		<b>286</b>	285	285
80% Distill Point	°C	ASTM D86		<b>302</b>	302	302
85% Distillation Point	°C	ASTM D86		<b>313</b>	312	312
90% Distill Point	°C	ASTM D86		<b>325</b>	325	325
95% Distillation Point	°C	ASTM D86		<b>344</b>	345	344
Final Boiling Point	°C	ASTM D86		<b>354</b>	355	355
Distillation Residue	%	ASTM D86		<b>1.4</b>	1.4	1.4
Distillation Loss	%	ASTM D86		<b>0.9</b>	0.9	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		<b>37.6</b>	37.6	37.6
Cetane Index		ASTM D4737	<40.0	<b>48.6</b>	48.3	48.4

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Water	%	ASTM D6304	<0.05	<b>0.005</b>	0.004	0.003
ppm Water	ppm	ASTM D6304	<500	<b>58</b>	46.2	36.4
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	0.0
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	0.0



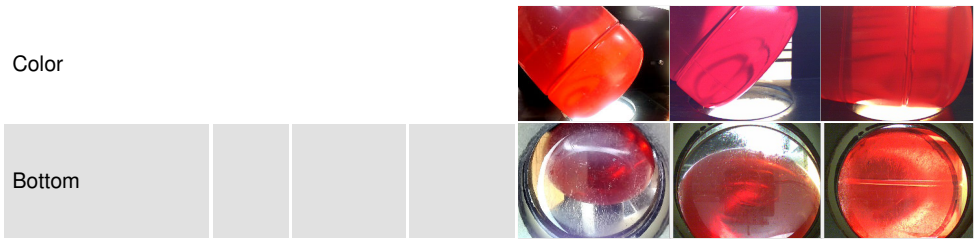
# FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>1116</b>	761	1004
Particles >6µm	ASTM D7647	>640	<b>314</b>	264	310
Particles >14µm	ASTM D7647	>80	<b>25</b>	29	40
Particles >21µm	ASTM D7647	>20	<b>7</b>	4	13
Particles >38µm	ASTM D7647	>4	<b>0</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>17/15/12</b>	17/15/12	17/15/12

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

## SAMPLE IMAGES



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06073465 **Received** : 30 Jan 2024  
**Lab Number** : **06073465** **Diagnosed** : 06 Feb 2024  
**Unique Number** : 10850142 **Diagnostician** : Doug Bogart  
**Test Package** : DF-1 ( Additional Tests: Screen )

**ISP FUEL SYSTEMS**  
 9 CHRIS COURT, SUITE F  
 DAYTON, NJ  
 US 08810  
 Contact: AJ THOMPSON  
 aj@ispfuelsystems.com  
 T:  
 F:

Certificate L2367  
 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)