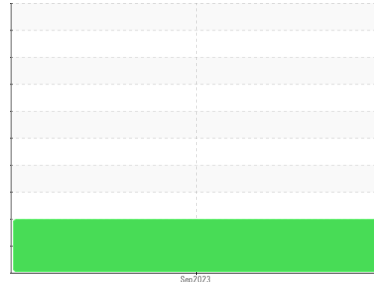




# FUEL REPORT

Sample Rating Trend



ISO

Machine Id  
**WINDSOR 1**

Component  
**Diesel Fuel**  
Fluid

**DISEL FUEL No. 1 (--- 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.

### 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>WC0798122</b>	---	---
Sample Date	Client Info	<b>26 Sep 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	<b>0.840</b>	---	---
Fuel Color	text *Visual Screen	<b>Red</b>	---	---
ASTM Color	scalar *ASTM D1500	<b>L4.0</b>	---	---
Visc @ 40°C	cSt ASTM D445 2.4	<b>2.46</b>	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	<b>61</b>	---	---

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	<b>0</b>	---	---
Sulfur (UVF)	ppm ASTM D5453	<b>12</b>	---	---

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	<b>169</b>	---	---
5% Distillation Point	°C ASTM D86	<b>192</b>	---	---
10% Distill Point	°C ASTM D86	<b>202</b>	---	---
15% Distillation Point	°C ASTM D86	<b>210</b>	---	---
20% Distill Point	°C ASTM D86	<b>217</b>	---	---
30% Distill Point	°C ASTM D86	<b>231</b>	---	---
40% Distill Point	°C ASTM D86	<b>245</b>	---	---
50% Distill Point	°C ASTM D86	<b>258</b>	---	---
60% Distill Point	°C ASTM D86	<b>272</b>	---	---
70% Distill Point	°C ASTM D86	<b>287</b>	---	---
80% Distill Point	°C ASTM D86	<b>304</b>	---	---
85% Distillation Point	°C ASTM D86	<b>314</b>	---	---
90% Distill Point	°C ASTM D86	<b>326</b>	---	---
95% Distillation Point	°C ASTM D86	<b>343</b>	---	---
Final Boiling Point	°C ASTM D86	<b>352</b>	---	---
Distillation Residue	% ASTM D86	<b>1.4</b>	---	---
Distillation Loss	% ASTM D86	<b>0.7</b>	---	---

## IGNITION QUALITY

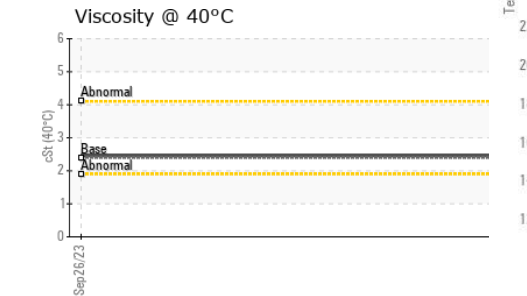
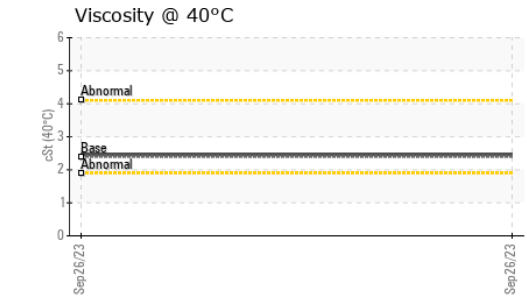
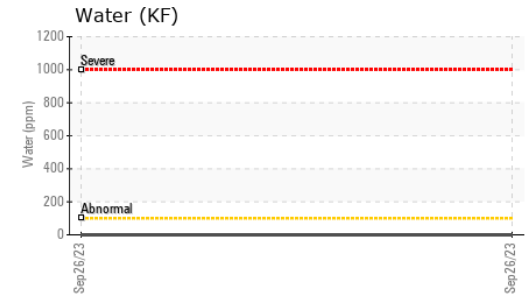
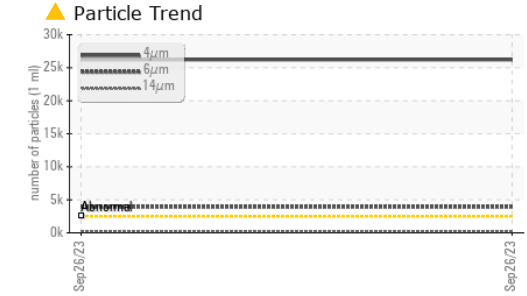
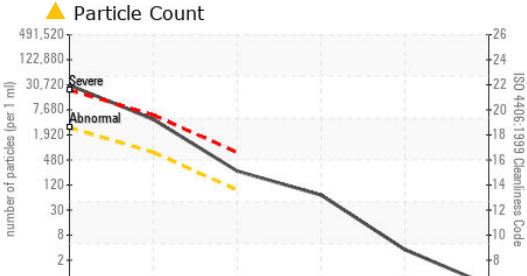
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	<b>37.0</b>	---	---
Cetane Index	ASTM D4737 <40.0	<b>48.3</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	<b>0</b>	---	---
Sodium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Potassium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Water	% ASTM D6304 <0.05	<b>0.00</b>	---	---
ppm Water	ppm ASTM D6304 <500	<b>0.00</b>	---	---
% Gasoline	% *In-House <0.50	<b>0.0</b>	---	---
% Biodiesel	% *In-House <20.0	<b>0.0</b>	---	---



# FUEL REPORT

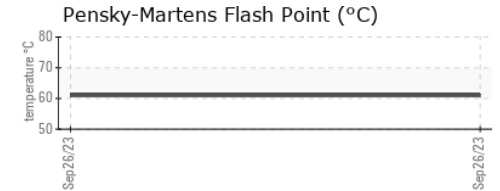
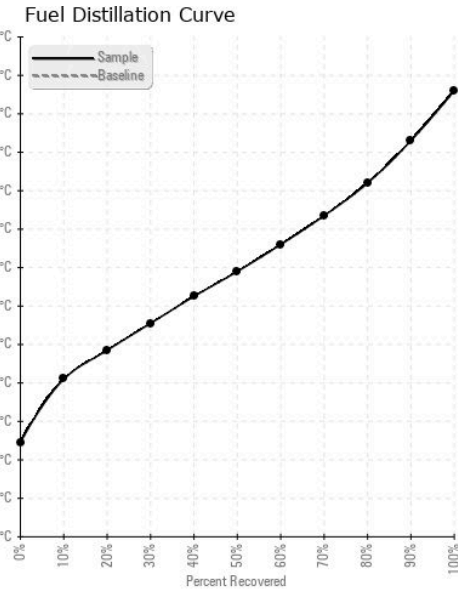


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 26218	---	---
Particles >6µm	ASTM D7647	>640	▲ 3931	---	---
Particles >14µm	ASTM D7647	>80	▲ 229	---	---
Particles >21µm	ASTM D7647	>20	▲ 61	---	---
Particles >38µm	ASTM D7647	>4	3	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 22/19/15	---	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0798122 **Received** : 29 Sep 2023  
**Lab Number** : 05965856 **Diagnosed** : 06 Oct 2023  
**Unique Number** : 10672407 **Diagnostician** : Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: Screen )

**KB POWER SYSTEMS LLC**  
 738 Old Buies Creek Rd  
 Lillington, NC  
 US 27546  
 Contact: DWAYNE REGISTER  
 dwayne@kbpowersystemsnc.com  
 T: (919)577-9136  
 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)