

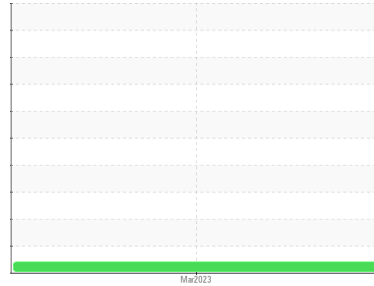


# FUEL REPORT

Sample Rating Trend

VIS DEBRIS

Machine Id  
**SLS 37**  
Component  
**Diesel Fuel**  
Fluid  
{not provided} (--- GAL)



## DIAGNOSIS

### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

### Corrosion

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

### Contaminants

Moderate concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible.

### Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0798092</b>	---	---
Sample Date	Client Info	<b>07 Mar 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	<b>0.845</b>	---	---
Fuel Color	text *Visual Screen	<b>Red</b>	---	---
ASTM Color	scalar *ASTM D1500	<b>L4.0</b>	---	---
Visc @ 40°C	cSt ASTM D445	<b>2.69</b>	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	<b>58</b>	---	---

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	<b>0</b>	---	---
Sulfur (UVF)	ppm ASTM D5453	<b>11</b>	---	---

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	<b>162</b>	---	---
5% Distillation Point	°C ASTM D86	<b>191</b>	---	---
10% Distill Point	°C ASTM D86	<b>204</b>	---	---
15% Distillation Point	°C ASTM D86	<b>213</b>	---	---
20% Distill Point	°C ASTM D86	<b>222</b>	---	---
30% Distill Point	°C ASTM D86	<b>236</b>	---	---
40% Distill Point	°C ASTM D86	<b>250</b>	---	---
50% Distill Point	°C ASTM D86	<b>263</b>	---	---
60% Distill Point	°C ASTM D86	<b>278</b>	---	---
70% Distill Point	°C ASTM D86	<b>292</b>	---	---
80% Distill Point	°C ASTM D86	<b>307</b>	---	---
85% Distillation Point	°C ASTM D86	<b>317</b>	---	---
90% Distill Point	°C ASTM D86	<b>327</b>	---	---
95% Distillation Point	°C ASTM D86	<b>345</b>	---	---
Final Boiling Point	°C ASTM D86	<b>348</b>	---	---
Distillation Residue	% ASTM D86	<b>1.4</b>	---	---
Distillation Loss	% ASTM D86	<b>0.7</b>	---	---

## IGNITION QUALITY

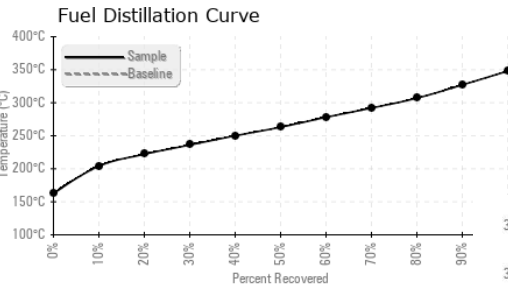
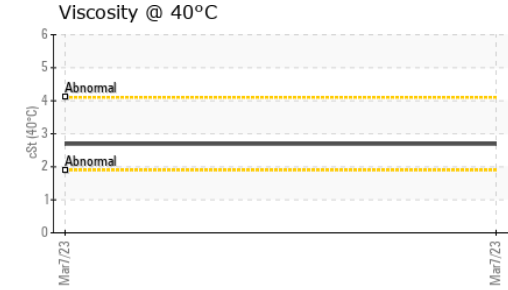
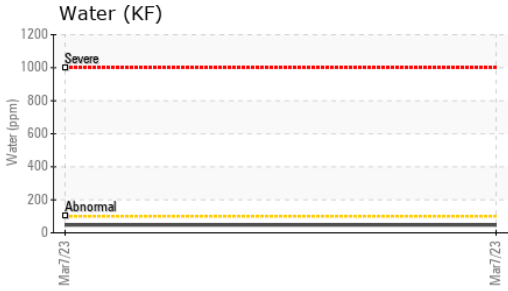
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	<b>36.0</b>	---	---
Cetane Index	ASTM D4737 <40.0	<b>47.1</b>	---	---

## 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>0.004</b>	---	---
ppm Water	ppm ASTM D6304 <500	<b>47.4</b>	---	---
% Gasoline	% *In-House <0.50	<b>0.0</b>	---	---
% Biodiesel	% *In-House <20.0	<b>0.0</b>	---	---



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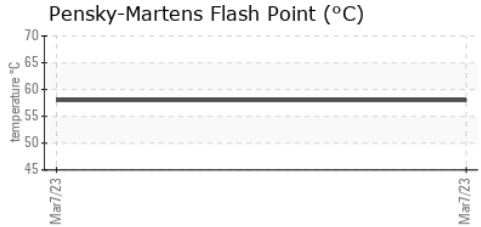
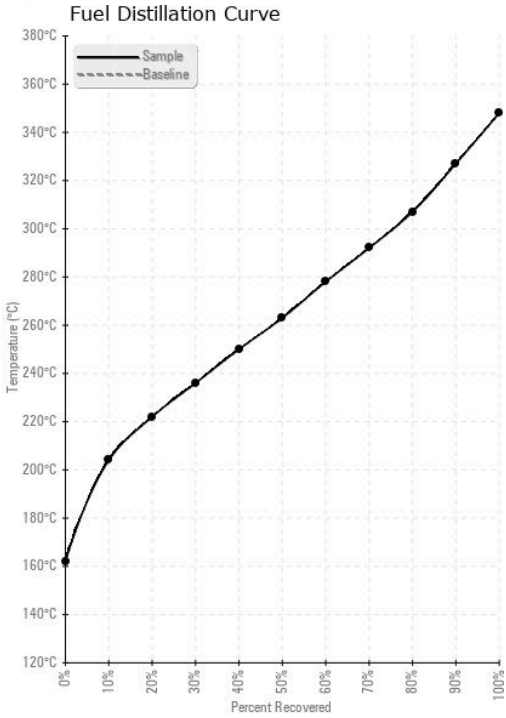


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	---	---
Yeast	CFU/ml WC-Method	>=100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

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	0	---	---
Phosphorus	ppm ASTM D5185m	<0.1	0	---	---
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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0798092 **Recieved** : 28 Apr 2023  
**Lab Number** : 05833391 **Diagnosed** : 12 May 2023  
**Unique Number** : 10446884 **Diagnostician** : Doug Bogart  
**Test Package** : DF-2 ( Additional Tests: BACTERIA, Screen )

**KB POWER SYSTEMS LLC**  
 738 Old Buies Creek Rd  
 Lillington, NC  
 US 27546

Contact: DWAYNE REGISTER  
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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)