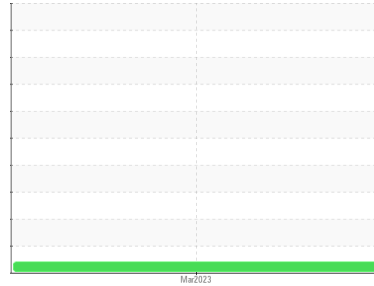




FUEL REPORT

Sample Rating Trend

VIS DEBRIS



Machine Id
BPS 2
 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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0798116	---	---
Sample Date	Client Info			23 Mar 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.842	---	---
Fuel Color	text	*Visual Screen		Orang	---	---
ASTM Color	scalar	*ASTM D1500		L1.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.42	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		57	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		13	---	---

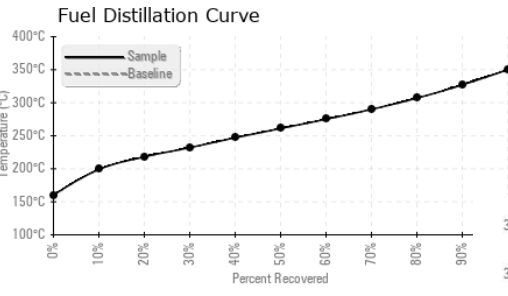
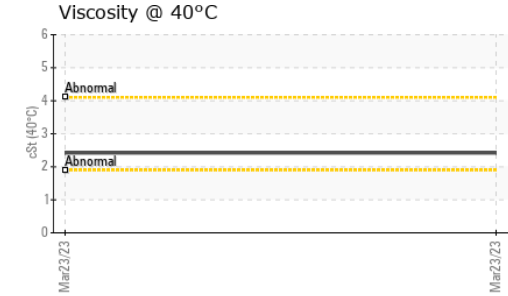
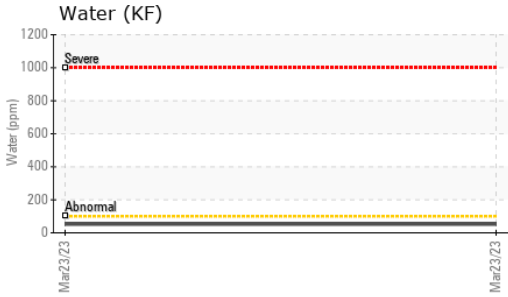
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		160	---	---
5% Distillation Point	°C	ASTM D86		189	---	---
10% Distill Point	°C	ASTM D86		199	---	---
15% Distillation Point	°C	ASTM D86		210	---	---
20% Distill Point	°C	ASTM D86		218	---	---
30% Distill Point	°C	ASTM D86		232	---	---
40% Distill Point	°C	ASTM D86		247	---	---
50% Distill Point	°C	ASTM D86		261	---	---
60% Distill Point	°C	ASTM D86		275	---	---
70% Distill Point	°C	ASTM D86		290	---	---
80% Distill Point	°C	ASTM D86		307	---	---
85% Distillation Point	°C	ASTM D86		317	---	---
90% Distill Point	°C	ASTM D86		327	---	---
95% Distillation Point	°C	ASTM D86		342	---	---
Final Boiling Point	°C	ASTM D86		350	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.2	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.6	---	---
Cetane Index		ASTM D4737	<40.0	47.8	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
Sodium	ppm	ASTM D5185m	<0.1	0	---	---
Potassium	ppm	ASTM D5185m	<0.1	0	---	---
Water	%	ASTM D6304	<0.05	0.005	---	---
ppm Water	ppm	ASTM D6304	<500	52.5	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	2.8	---	---



FUEL REPORT

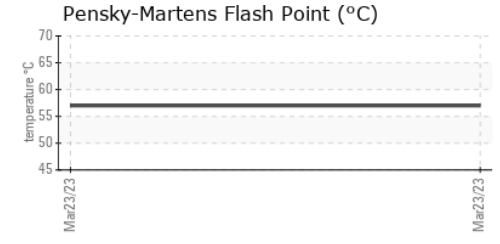
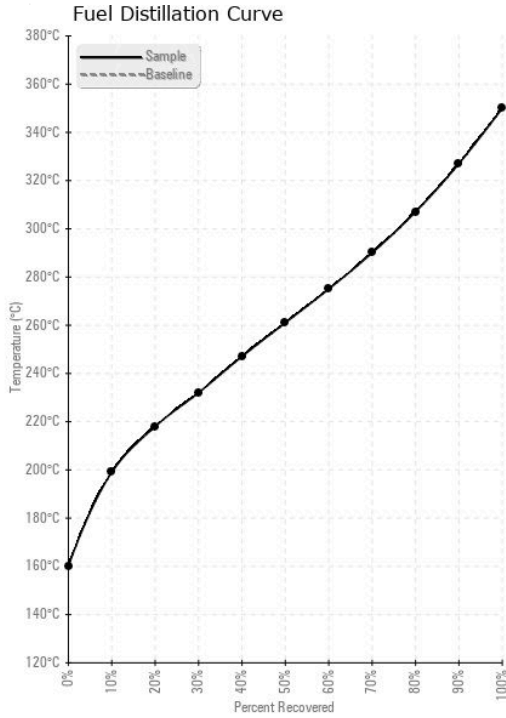


MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	---	---
Yeast	CFU/ml WC-Method	>=100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

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					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0798116 **Recieved** : 28 Apr 2023
Lab Number : 05833358 **Diagnosed** : 12 May 2023
Unique Number : 10446851 **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
 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)