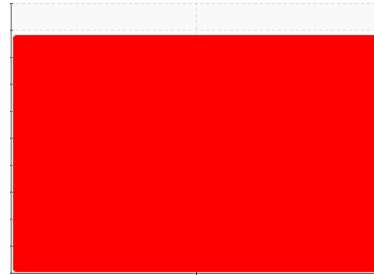




FUEL REPORT

Sample Rating Trend

CONTAMINANT



Machine Id
ASCENT K2

Component
Diesel Fuel

Fluid
DIESEL FUEL No. 1 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise an early resample to confirm this situation. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Corrosion

The iron level is abnormal.

Contaminants

Appearance is unacceptable. High concentration of visible dirt/debris present in the fuel. There is a high amount of visible silt present in the sample. There is a light concentration of water present in the fuel. 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0798131	---	---
Sample Date	Client Info		28 Sep 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Sample Status			SEVERE	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		0.851	---	---
Fuel Color	text	*Visual Screen	Red	---	---
ASTM Color	scalar	*ASTM D1500	L7.0	---	---
Visc @ 40°C	cSt	ASTM D445 2.4	2.62	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	60	---	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	618	---	---
Sulfur (UVF)	ppm	ASTM D5453	553	---	---

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	167	---	---
5% Distillation Point	°C	ASTM D86	196	---	---
10% Distill Point	°C	ASTM D86	208	---	---
15% Distillation Point	°C	ASTM D86	216	---	---
20% Distill Point	°C	ASTM D86	224	---	---
30% Distill Point	°C	ASTM D86	238	---	---
40% Distill Point	°C	ASTM D86	252	---	---
50% Distill Point	°C	ASTM D86	265	---	---
60% Distill Point	°C	ASTM D86	278	---	---
70% Distill Point	°C	ASTM D86	292	---	---
80% Distill Point	°C	ASTM D86	306	---	---
85% Distillation Point	°C	ASTM D86	315	---	---
90% Distill Point	°C	ASTM D86	326	---	---
95% Distillation Point	°C	ASTM D86	341	---	---
Final Boiling Point	°C	ASTM D86	349	---	---
Distillation Residue	%	ASTM D86	1.4	---	---
Distillation Loss	%	ASTM D86	0.5	---	---

IGNITION QUALITY

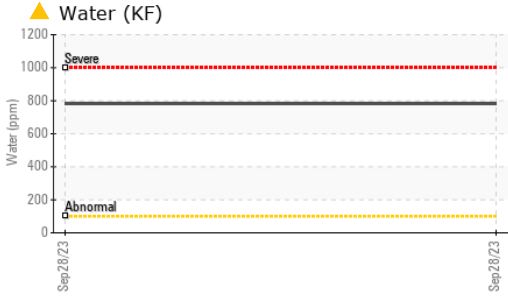
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		34.8	---	---
Cetane Index	ASTM D4737	<40.0	43.4	---	---

CONTAMINANTS

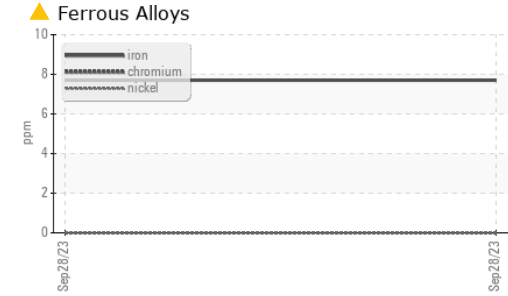
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m <1.0	0	---	---
Sodium	ppm	ASTM D5185m <0.1	0	---	---
Potassium	ppm	ASTM D5185m <0.1	0	---	---
Water	%	ASTM D6304 <0.05	0.078	---	---
ppm Water	ppm	ASTM D6304 <500	783.3	---	---
% Gasoline	%	*In-House <0.50	0.0	---	---
% Biodiesel	%	*In-House <20.0	1.2	---	---



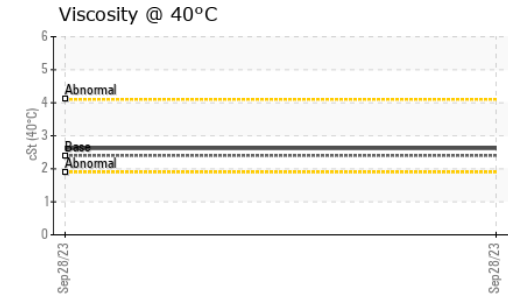
FUEL REPORT



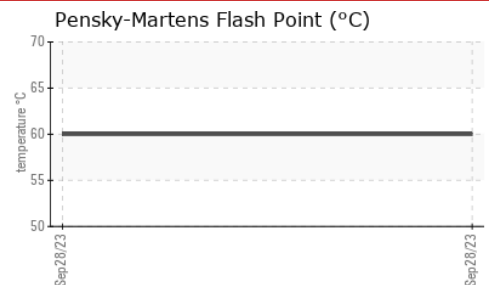
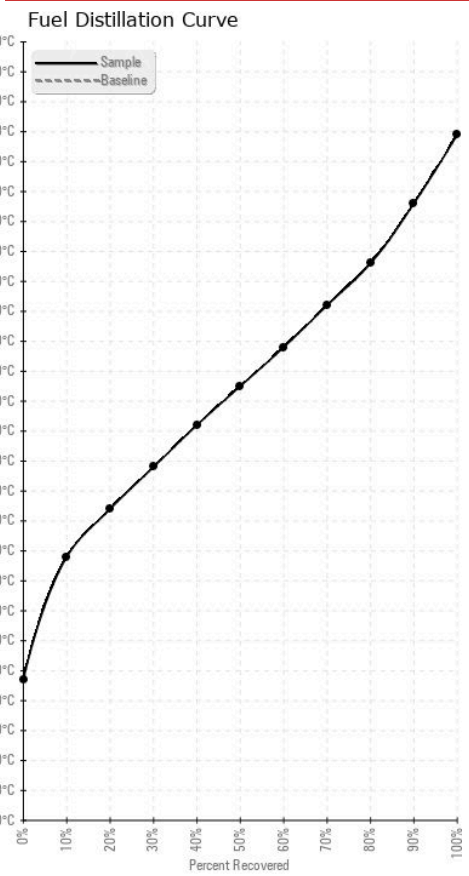
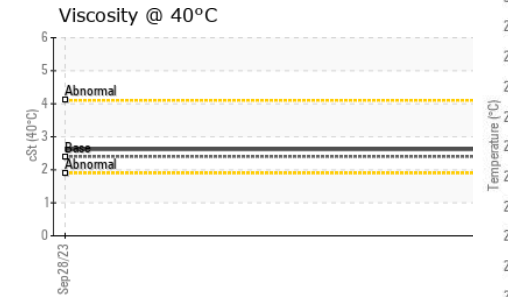
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	▲ 8	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	---	---
Magnesium	ppm	ASTM D5185m	<0.1	3	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	4	---	---
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. : WC0798131 **Received** : 29 Sep 2023
Lab Number : 05965852 **Diagnosed** : 09 Oct 2023
Unique Number : 10672403 **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)