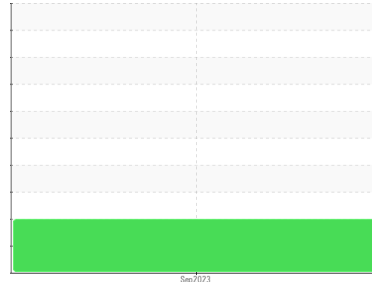




FUEL REPORT

Sample Rating Trend



Machine Id
ASCENT RM 2
 Component
Diesel Fuel
 Fluid
DIESEL 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0798124	---	---
Sample Date	Client Info	28 Sep 2023	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		ATTENTION	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	0.845	---	---
Fuel Color	text *Visual Screen	Red	---	---
ASTM Color	scalar *ASTM D1500	L4.0	---	---
Visc @ 40°C	cSt ASTM D445 2.4	2.57	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	58	---	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	342	---	---
Sulfur (UVF)	ppm ASTM D5453	287	---	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	162	---	---
5% Distillation Point	°C ASTM D86	191	---	---
10% Distill Point	°C ASTM D86	202	---	---
15% Distillation Point	°C ASTM D86	212	---	---
20% Distill Point	°C ASTM D86	220	---	---
30% Distill Point	°C ASTM D86	235	---	---
40% Distill Point	°C ASTM D86	249	---	---
50% Distill Point	°C ASTM D86	263	---	---
60% Distill Point	°C ASTM D86	278	---	---
70% Distill Point	°C ASTM D86	293	---	---
80% Distill Point	°C ASTM D86	309	---	---
85% Distillation Point	°C ASTM D86	318	---	---
90% Distill Point	°C ASTM D86	328	---	---
95% Distillation Point	°C ASTM D86	342	---	---
Final Boiling Point	°C ASTM D86	351	---	---
Distillation Residue	% ASTM D86	1.4	---	---
Distillation Loss	% ASTM D86	0.5	---	---

IGNITION QUALITY

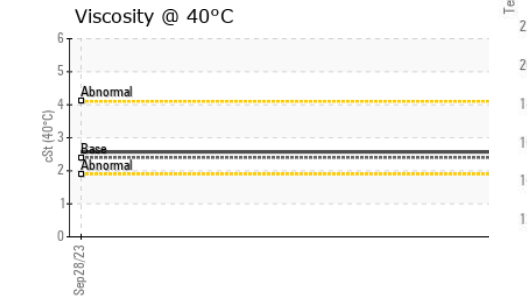
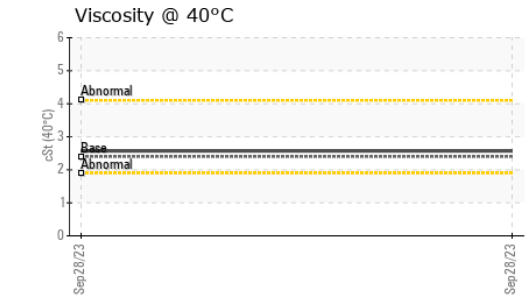
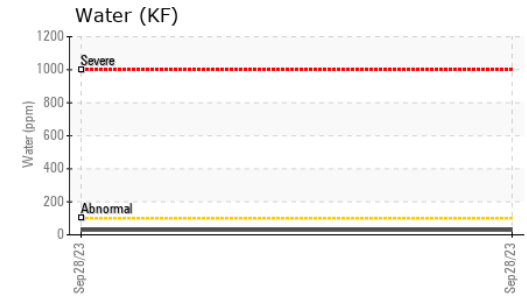
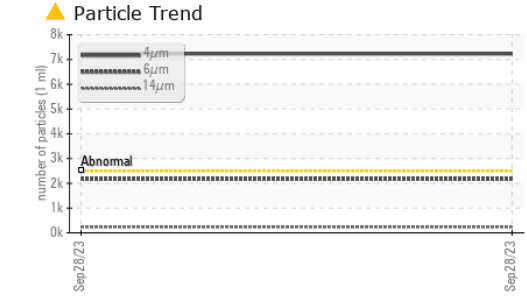
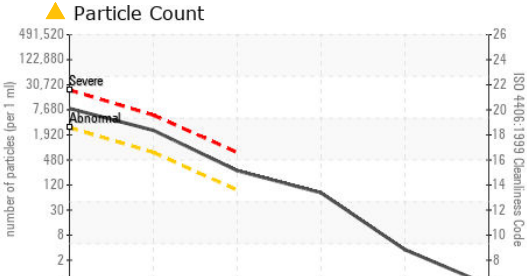
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	36.0	---	---
Cetane Index	ASTM D4737 <40.0	47.0	---	---

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	0.003	---	---
ppm Water	ppm ASTM D6304 <500	29.2	---	---
% Gasoline	% *In-House <0.50	0.0	---	---
% Biodiesel	% *In-House <20.0	3.3	---	---



FUEL REPORT

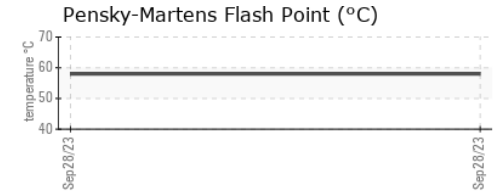
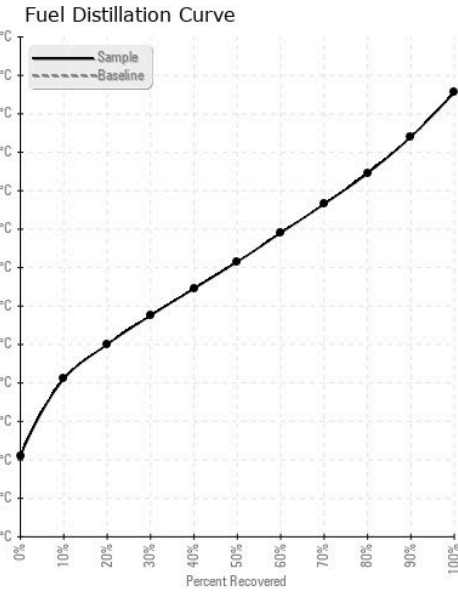


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 7227	---	---
Particles >6µm	ASTM D7647	>640	▲ 2166	---	---
Particles >14µm	ASTM D7647	>80	▲ 234	---	---
Particles >21µm	ASTM D7647	>20	▲ 69	---	---
Particles >38µm	ASTM D7647	>4	3	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/18/15	---	---

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	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. : WC0798124 **Received** : 29 Sep 2023
Lab Number : **05965853** **Diagnosed** : 06 Oct 2023
Unique Number : 10672404 **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)