



FUEL REPORT

Sample Rating Trend

VISUAL METAL



Machine Id
SLS 142 - 1811 ERWIN RD

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. We advise that you inspect for the source(s) of rust.

Corrosion

Moderate concentration of visible metal present as rust.

Contaminants

There is a moderate amount of visible silt present in the sample. 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			WC0798121	---	---
Sample Date	Client Info			08 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		Red	---	---
ASTM Color	scalar	*ASTM D1500		L5.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.5	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		58	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		10	---	---

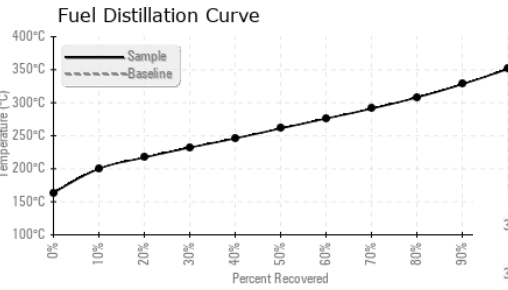
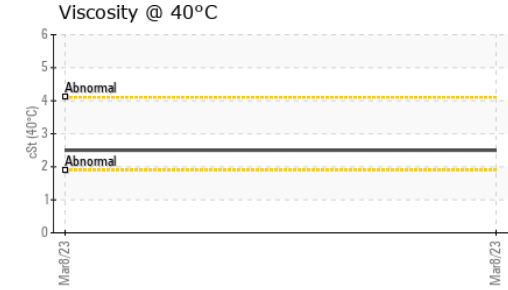
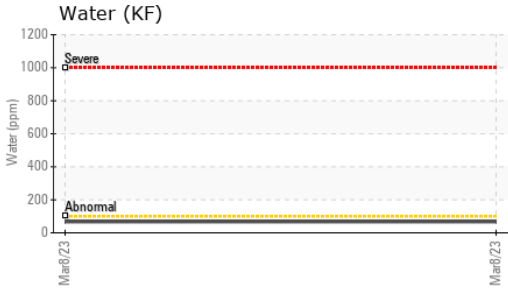
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		163	---	---
5% Distillation Point	°C	ASTM D86		188	---	---
10% Distill Point	°C	ASTM D86		200	---	---
15% Distillation Point	°C	ASTM D86		209	---	---
20% Distill Point	°C	ASTM D86		217	---	---
30% Distill Point	°C	ASTM D86		232	---	---
40% Distill Point	°C	ASTM D86		246	---	---
50% Distill Point	°C	ASTM D86		261	---	---
60% Distill Point	°C	ASTM D86		276	---	---
70% Distill Point	°C	ASTM D86		291	---	---
80% Distill Point	°C	ASTM D86		308	---	---
85% Distillation Point	°C	ASTM D86		317	---	---
90% Distill Point	°C	ASTM D86		328	---	---
95% Distillation Point	°C	ASTM D86		343	---	---
Final Boiling Point	°C	ASTM D86		351	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.6	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.6	---	---
Cetane Index		ASTM D4737	<40.0	47.9	---	---

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	0.006	---	---
ppm Water	ppm	ASTM D6304	<500	67.4	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	1.9	---	---



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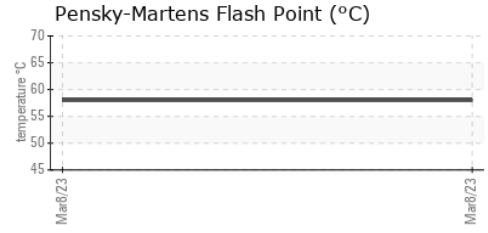
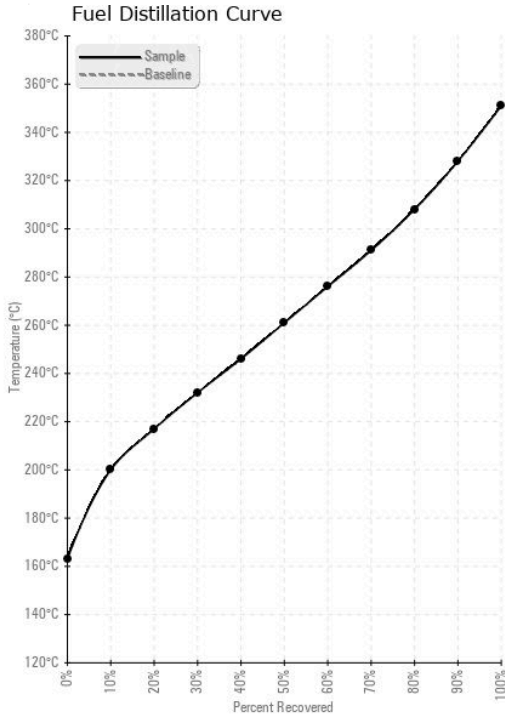
MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	>=100000	0	---	---
Yeast	CFU/ml WC-Method	>=100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

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. : WC0798121 **Received** : 28 Apr 2023
Lab Number : 05833374 **Diagnosed** : 12 May 2023
Unique Number : 10446867 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: BACTERIA, Screen)

KB POWER SYSTEMS LLC
 738 Old Buires 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)