



FUEL REPORT

Sample Rating Trend



ISO



Machine Id
SIS 122 - 406 ROCK RUN LN

Component
Diesel Fuel
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Recommend pre-filtering 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. There is no bacteria or fungus (yeast and/or mold) indicated 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			WC0798104	---	---
Sample Date	Client Info			06 Mar 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.844	---	---
Fuel Color	text	*Visual Screen		Orang	---	---
ASTM Color	scalar	*ASTM D1500		L3.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.57	---	---
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		56	---	---

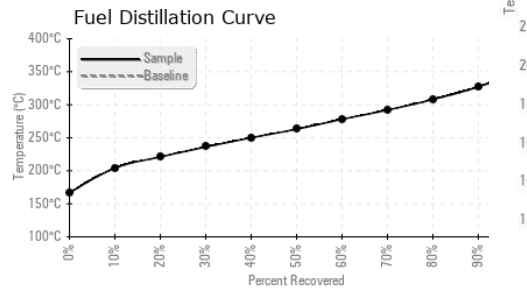
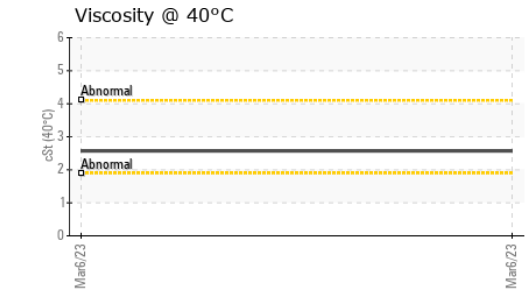
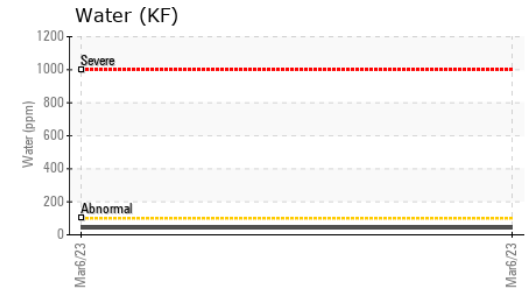
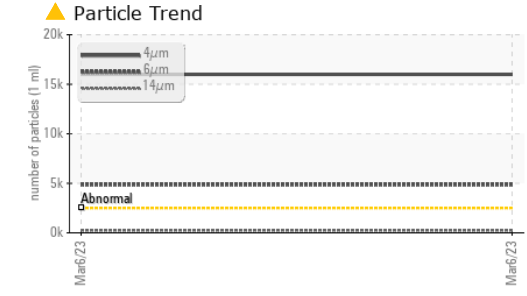
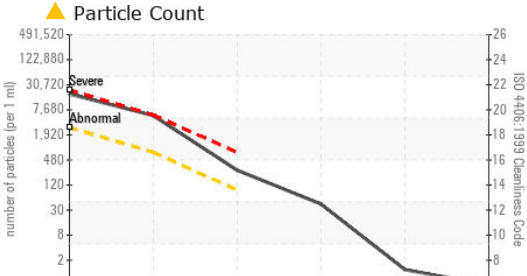
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		166	---	---
5% Distillation Point	°C	ASTM D86		193	---	---
10% Distill Point	°C	ASTM D86		204	---	---
15% Distillation Point	°C	ASTM D86		213	---	---
20% Distill Point	°C	ASTM D86		221	---	---
30% Distill Point	°C	ASTM D86		236	---	---
40% Distill Point	°C	ASTM D86		250	---	---
50% Distill Point	°C	ASTM D86		263	---	---
60% Distill Point	°C	ASTM D86		278	---	---
70% Distill Point	°C	ASTM D86		292	---	---
80% Distill Point	°C	ASTM D86		308	---	---
85% Distillation Point	°C	ASTM D86		317	---	---
90% Distill Point	°C	ASTM D86		327	---	---
95% Distillation Point	°C	ASTM D86		343	---	---
Final Boiling Point	°C	ASTM D86		352	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.7	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.2	---	---
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	0.004	---	---
ppm Water	ppm	ASTM D6304	<500	42.4	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	1.7	---	---



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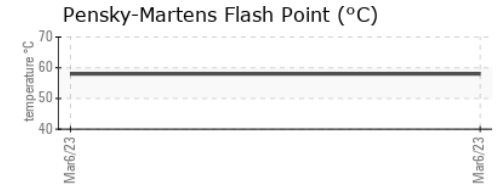
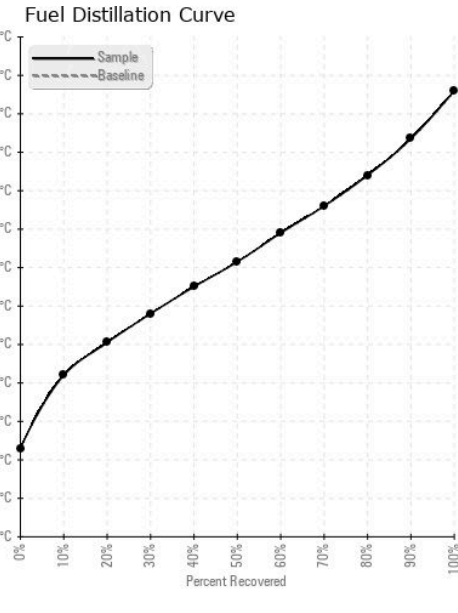


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 15995	---	---
Particles >6µm	ASTM D7647	>640	▲ 4857	---	---
Particles >14µm	ASTM D7647	>80	▲ 240	---	---
Particles >21µm	ASTM D7647	>20	▲ 37	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 21/19/15	---	---

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	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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0798104 **Received** : 28 Apr 2023
Lab Number : 05833370 **Diagnosed** : 09 May 2023
Unique Number : 10446863 **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)