FUEL REPORT

Sample Rating Trend

ISO

Area
[20225676]
Machine Id
Peerless 2141 K St Firepump
Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Recommend pre-filter before use. All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur. (Customer Sample Comment: 2141 k st Firepump fuel sample)

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. No other contaminants were detected in the fuel.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DC0014123**	---	---
Sample Date		Client Info		**03 Jan 2023**	---	---
Machine Age	mths	Client Info		**0**	---	---
Sample Status				**ATTENTION**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.5**	---	---
Visc @ 40°C	cSt	ASTM D445		**2.64**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**164**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**207**	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		**35.6**	---	---

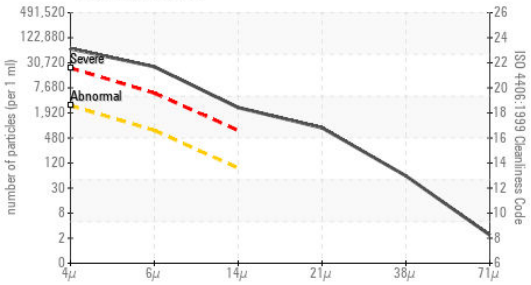
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**4**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**0**	---	---
Water	%	ASTM D6304	<0.05	**0.004**	---	---
ppm Water	ppm	ASTM D6304	<500	**43.2**	---	---
% Gasoline	%	*In-House	<0.50	**0.0**	---	---
% Biodiesel	%	*In-House	<20.0	**0.0**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **57640**	---	---
Particles >6µm		ASTM D7647	>640	▲ **21423**	---	---
Particles >14µm		ASTM D7647	>80	▲ **2254**	---	---
Particles >21µm		ASTM D7647	>20	▲ **737**	---	---
Particles >38µm		ASTM D7647	>4	▲ **52**	---	---
Particles >71µm		ASTM D7647	>3	**2**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **23/22/18**	---	---

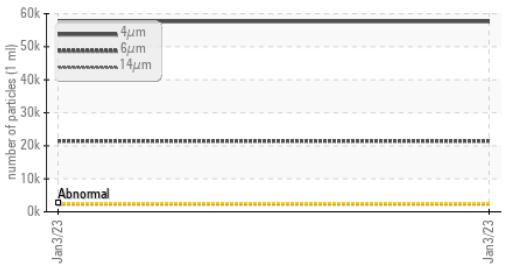
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	---	---
Nickel	ppm	ASTM D5185m	<0.1	**0**	---	---
Lead	ppm	ASTM D5185m	<0.1	**<1**	---	---
Vanadium	ppm	ASTM D5185m	<0.1	**0**	---	---
Iron	ppm	ASTM D5185m	<0.1	**<1**	---	---
Calcium	ppm	ASTM D5185m	<0.1	**0**	---	---
Magnesium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	**28**	---	---
Zinc	ppm	ASTM D5185m	<0.1	**3**	---	---

FUEL REPORT

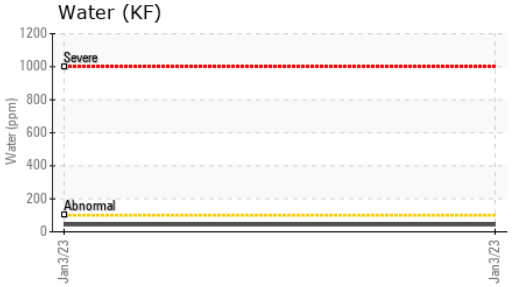
Particle Count

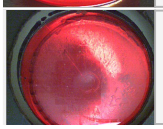


Particle Trend



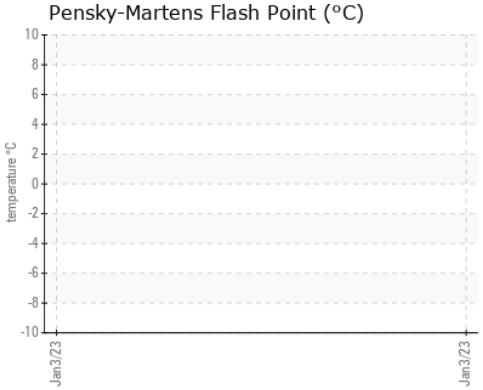
Water (KF)



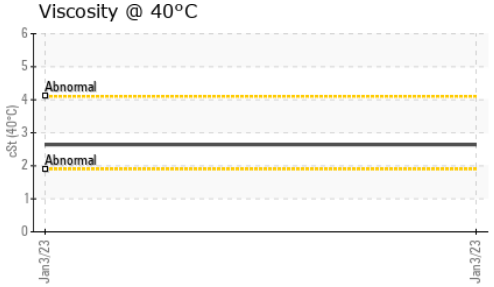
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS

Pensky-Martens Flash Point (°C)



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0014123 **Received** : 19 Jan 2023
Lab Number : 05744358 **Diagnosed** : 31 Jan 2023
Unique Number : 10298957 **Diagnostician** : Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, Screen)

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)

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