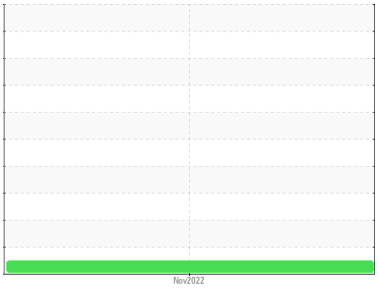
FUEL REPORT

Sample Rating Trend



NORMAL

Area
[20222213]
Machine Id
SYS008929
Component
Diesel Fuel
Fluid
diesel fuel (--- GAL)

DIAGNOSIS

Recommendation
All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel. (Customer Sample Comment: Fuel sample sys008929)

Corrosion
All metal levels are normal indicating no corrosion in the system.

Contaminants
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		**DC0024965**	---	---
Sample Date		Client Info		**08 Nov 2022**	---	---
Machine Age	yrs	Client Info		**0**	---	---
Sample Status				**NORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.0**	---	---
Visc @ 40°C	cSt	ASTM D445		**2.36**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**14**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**23**	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		**38.0**	---	---

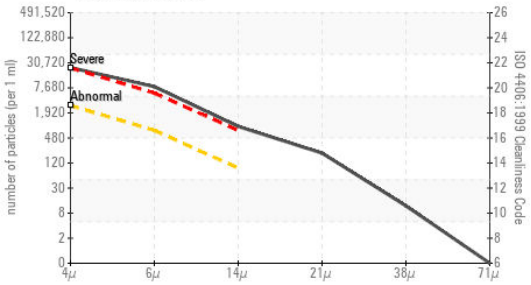
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**0**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**0**	---	---
Water	%	ASTM D6304	<0.05	**0.003**	---	---
ppm Water	ppm	ASTM D6304	<500	**35.5**	---	---
% Gasoline	%	*In-House	<0.50	**0.0**	---	---
% Biodiesel	%	*In-House	<20.0	**0.0**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**20418**	---	---
Particles >6µm		ASTM D7647	>640	**7153**	---	---
Particles >14µm		ASTM D7647	>80	**798**	---	---
Particles >21µm		ASTM D7647	>20	**183**	---	---
Particles >38µm		ASTM D7647	>4	**10**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**22/20/17**	---	---

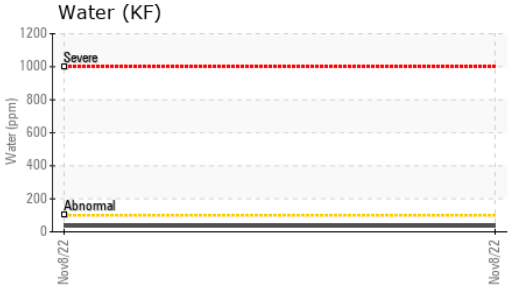
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	---	---
Nickel	ppm	ASTM D5185m	<0.1	**0**	---	---
Lead	ppm	ASTM D5185m	<0.1	**0**	---	---
Vanadium	ppm	ASTM D5185m	<0.1	**0**	---	---
Iron	ppm	ASTM D5185m	<0.1	**0**	---	---
Calcium	ppm	ASTM D5185m	<0.1	**0**	---	---
Magnesium	ppm	ASTM D5185m	<0.1	**0**	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	**6**	---	---
Zinc	ppm	ASTM D5185m	<0.1	**0**	---	---

FUEL REPORT

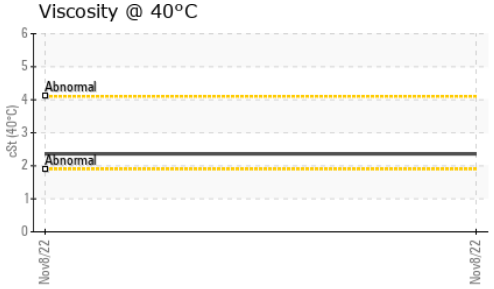
Particle Count



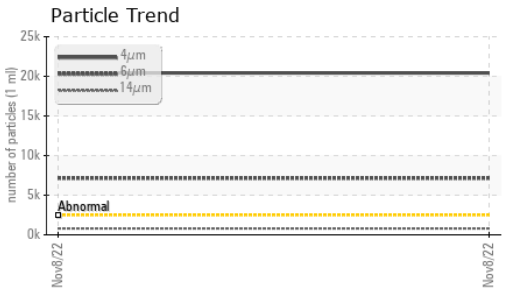
Water (KF)

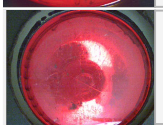


Viscosity @ 40°C



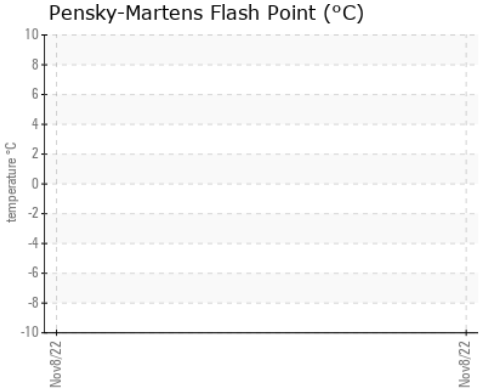
Particle Trend



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

GRAPHS

Pensky-Martens Flash Point (°C)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0024965 **Received** : 17 Nov 2022
Lab Number : 05697195 **Diagnosed** : 24 Nov 2022
Unique Number : 10221768 **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)

JE RICHARDS
4600 HARGROVE DR
LANHAM, MD
US 20706
Contact: E. NOEL
enoel@phalconusa.com
T: (240)623-4398
F: