



# FUEL REPORT

Sample Rating Trend

ISO



Area  
**[20224359]**  
 Machine Id  
**Kohler 11901 Sunset hills**  
 Component  
**Diesel Fuel**  
 Fluid  
**NOT GIVEN (25 GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component if applicable. All other laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel. ( Customer Sample Comment: Fuel sample 11091 Sunset Kohler )

### 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. Sulfur level is acceptable for ULSD specification.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>DC0024960</b>	---	---
Sample Date	Client Info	<b>06 Dec 2022</b>	---	---
Machine Age	yrs Client Info	<b>0</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar *ASTM D1500	<b>L4.0</b>	---	---
Visc @ 40°C	cSt ASTM D445	<b>2.44</b>	---	---

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	<b>0</b>	---	---
Sulfur (UVF)	ppm ASTM D5453	<b>14</b>	---	---

## IGNITION QUALITY

method	limit/base	current	history1	history2
API Gravity	ASTM D7777	<b>37.1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	<b>0</b>	---	---
Sodium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Potassium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Water	% ASTM D6304 <0.05	<b>0.003</b>	---	---
ppm Water	ppm ASTM D6304 <500	<b>27.6</b>	---	---
% Gasoline	% *In-House <0.50	<b>0.0</b>	---	---
% Biodiesel	% *In-House <20.0	<b>0.0</b>	---	---

## FLUID CLEANLINESS

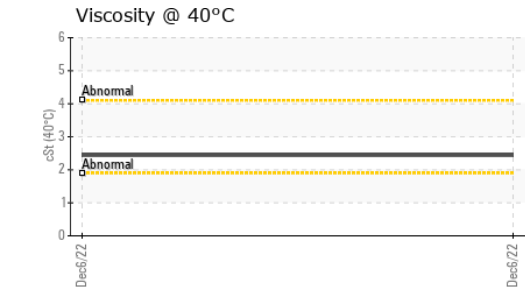
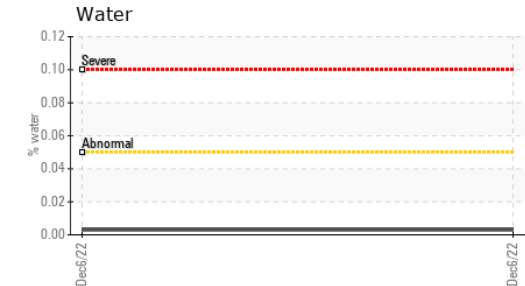
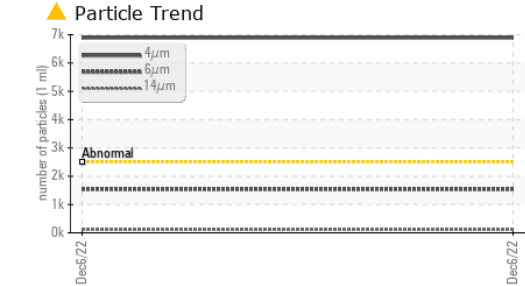
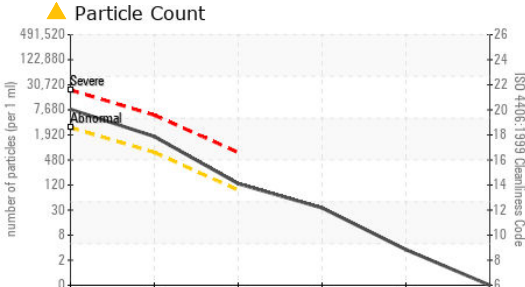
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	<b>▲ 6891</b>	---	---
Particles >6µm	ASTM D7647 >640	<b>▲ 1539</b>	---	---
Particles >14µm	ASTM D7647 >80	<b>▲ 114</b>	---	---
Particles >21µm	ASTM D7647 >20	<b>▲ 30</b>	---	---
Particles >38µm	ASTM D7647 >4	<b>3</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >18/16/13	<b>▲ 20/18/14</b>	---	---

## HEAVY METALS

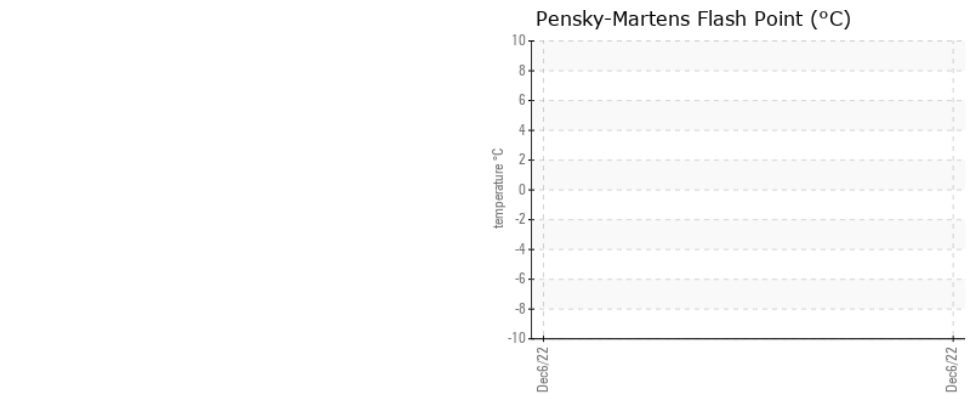
method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Nickel	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Lead	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Iron	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Calcium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Phosphorus	ppm ASTM D5185m <0.1	<b>0</b>	---	---
Zinc	ppm ASTM D5185m <0.1	<b>0</b>	---	---



# FUEL REPORT



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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0024960 **Received** : 09 Dec 2022  
**Lab Number** : 05713854 **Diagnosed** : 20 Dec 2022  
**Unique Number** : 10253430 **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: