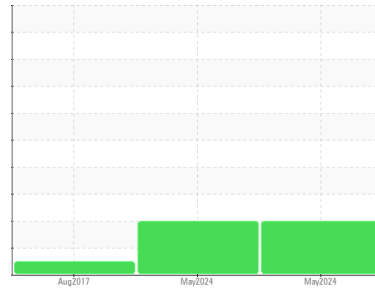




# FUEL REPORT

## Sample Rating Trend



ISO



Machine Id  
**2101760**

Component  
**Diesel Fuel**

Fluid  
**No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)**

### DIAGNOSIS

#### Recommendation

We advise that you filter this fluid 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. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination 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	<b>DC0036938</b>	DC0036941	DCM1040052
Sample Date	Client Info	<b>30 May 2024</b>	29 May 2024	24 Aug 2017
Machine Age	hrs	<b>636</b>	576	0
Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL

### PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar	<b>*ASTM D1500</b>	L4.0	L4.0
Visc @ 40°C	cSt	<b>ASTM D445</b>	3.0	2.46
		<b>2.5</b>	2.46	2.5

### SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm	<b>ASTM D5185m</b>	10	24
Sulfur (UVF)	ppm	<b>ASTM D5453</b>	19	245
		<b>34</b>	24	---

### IGNITION QUALITY

method	limit/base	current	history1	history2
API Gravity	ASTM D7777	<b>37.7</b>	36.4	36.2
		<b>36.4</b>	36.4	36.2

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	<b>ASTM D5185m</b>	<1.0	<1
Sodium	ppm	<b>ASTM D5185m</b>	<0.1	1
Potassium	ppm	<b>ASTM D5185m</b>	<0.1	<1
Water	%	<b>ASTM D6304</b>	<0.05	0.004
ppm Water	ppm	<b>ASTM D6304</b>	<500	51
% Gasoline	%	<b>*In-House</b>	<0.50	0.0
% Biodiesel	%	<b>*In-House</b>	<20.0	1.6
			1.7	2.7

### FLUID CLEANLINESS

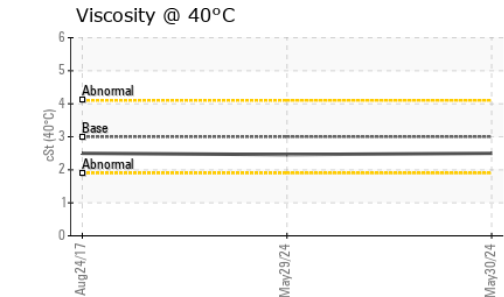
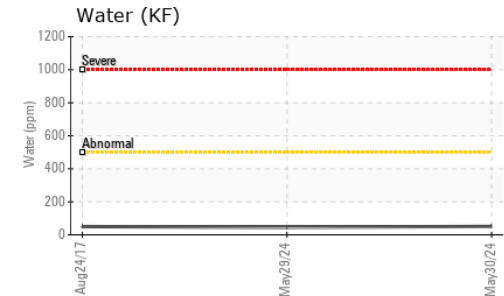
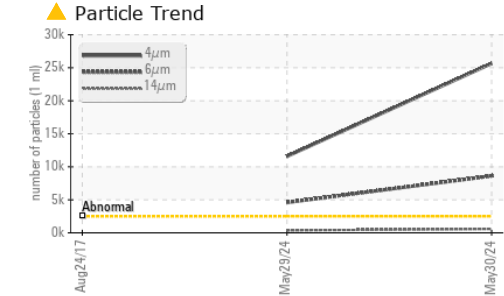
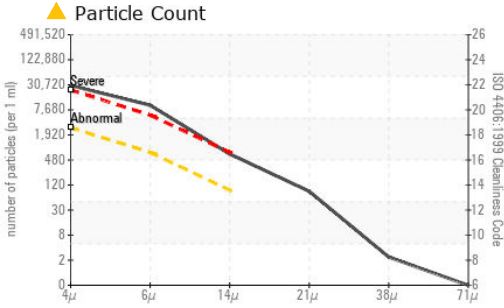
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>&gt;2500</b>	▲ 25651	▲ 11585
Particles >6µm	ASTM D7647	<b>&gt;640</b>	▲ 8621	▲ 4600
Particles >14µm	ASTM D7647	<b>&gt;80</b>	▲ 588	▲ 367
Particles >21µm	ASTM D7647	<b>&gt;20</b>	▲ 75	▲ 52
Particles >38µm	ASTM D7647	<b>&gt;4</b>	2	2
Particles >71µm	ASTM D7647	<b>&gt;3</b>	0	0
Oil Cleanliness	ISO 4406 (c)	<b>&gt;18/16/13</b>	▲ 22/20/16	▲ 21/19/16

### HEAVY METALS

method	limit/base	current	history1	history2
Aluminum	ppm	<b>ASTM D5185m</b>	<0.1	0
Nickel	ppm	<b>ASTM D5185m</b>	<0.1	0
Lead	ppm	<b>ASTM D5185m</b>	<0.1	0
Vanadium	ppm	<b>ASTM D5185m</b>	<0.1	<1
Iron	ppm	<b>ASTM D5185m</b>	<0.1	0
Calcium	ppm	<b>ASTM D5185m</b>	<0.1	2
Magnesium	ppm	<b>ASTM D5185m</b>	<0.1	<1
Phosphorus	ppm	<b>ASTM D5185m</b>	<0.1	0
Zinc	ppm	<b>ASTM D5185m</b>	<0.1	2
			0	2
			0	3

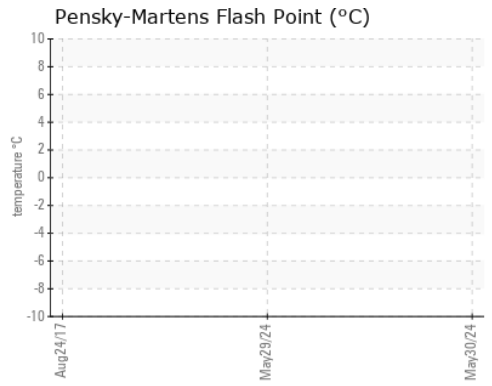


# FUEL REPORT



	SAMPLE IMAGES	method	limit/base	current	history1	history2
Color						
Bottom						

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0036938  
**Lab Number** : 06220270  
**Unique Number** : 11098467  
**Test Package** : DF-5 ( Additional Tests: API, Cetane, Fuel, PrtCount, Screen )

**KELLY GENERATOR & EQUIPMENT INC**  
 1955 DALE LN  
 OWINGS, MD  
 US 20736  
 Contact: LESLIE SNURR  
 LSNURR@KGE.COM  
 T: (410)257-5225  
 F: (410)257-5227

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)