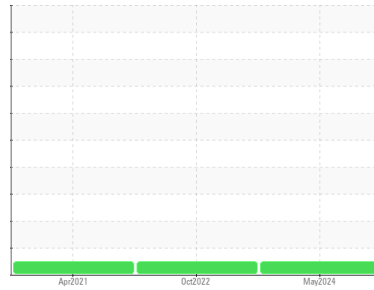




# FUEL REPORT

## Sample Rating Trend



**NORMAL**



Area  
**[PMIAS2791709]**  
 Machine Id  
**3005540541**  
 Component  
**Diesel Fuel**  
 Fluid  
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- QTS)**

### DIAGNOSIS

#### Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

#### Corrosion

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

#### Contaminants

The water content is negligible. There is no Bacteria, Yeast and/or Fungus 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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>DC0035922</b>	DC0023521	DC0012187
Sample Date	Client Info			<b>24 May 2024</b>	04 Oct 2022	19 Apr 2021
Machine Age	hrs	Client Info		<b>96</b>	58	0
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L4.5</b>	L4.0	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.44</b>	2.37	2.35

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	250	<b>43</b>	0	30
Sulfur (UVF)	ppm	ASTM D5453		<b>9</b>	7	8

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>26.8</b>	36.6	36.7

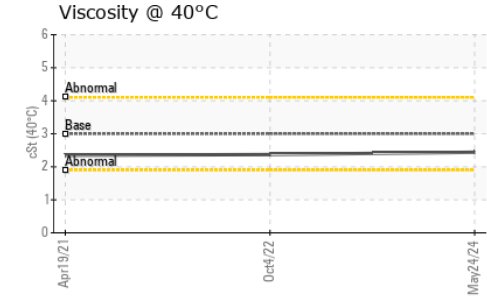
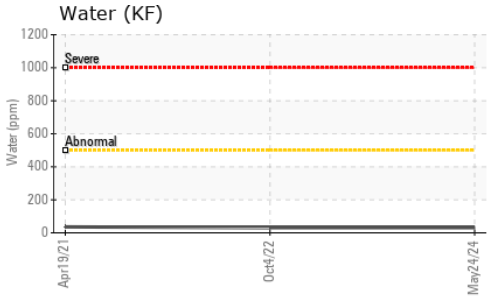
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m	<0.1	<b>1</b>	0	0
Potassium	ppm	ASTM D5185m	<0.1	<b>2</b>	0	0
Water	%	ASTM D6304	<0.05	<b>0.003</b>	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	<b>31</b>	30.8	36.1
% Gasoline	%	*In-House	<0.50	<b>2.1</b>	0.0	0.0
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	0.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>---</b>	1874	---
Particles >6µm		ASTM D7647	>640	<b>---</b>	755	---
Particles >14µm		ASTM D7647	>80	<b>---</b>	136	---
Particles >21µm		ASTM D7647	>20	<b>---</b>	51	---
Particles >38µm		ASTM D7647	>4	<b>---</b>	5	---
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>---</b>	18/17/14	---

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>2</b>	4	2
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0

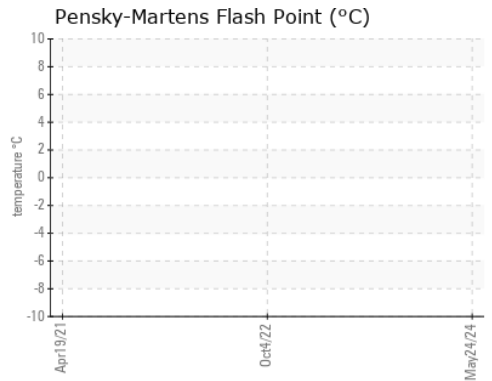


# FUEL REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035922 **Received** : 05 Jun 2024  
**Lab Number** : 06201100 **Tested** : 13 Jun 2024  
**Unique Number** : 11063223 **Diagnosed** : 13 Jun 2024 - Doug Bogart  
**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)