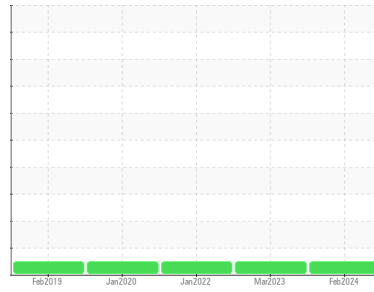




# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area

[PMIAS3286856]

Machine Id

**KATOLIGHT SED300FPJ4 108332-0305**

Component

**Diesel Fuel**

Fluid

**No.2 DIESEL FUEL (HIGH-SULPHUR) (10 GAL)**

## DIAGNOSIS

### Recommendation

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

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>DC0034685</b>	DC0025180	DC0014834
Sample Date	Client Info			<b>23 Feb 2024</b>	21 Mar 2023	12 Jan 2022
Machine Age	hrs	Client Info		<b>340</b>	331	323
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		<b>L5.5</b>	L5.5	---
Visc @ 40°C	cSt	ASTM D445	3.0	<b>2.42</b>	2.53	2.46

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	500	<b>413</b>	445	537
Sulfur (UVF)	ppm	ASTM D5453		<b>358</b>	483	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	<b>36.1</b>	---	---

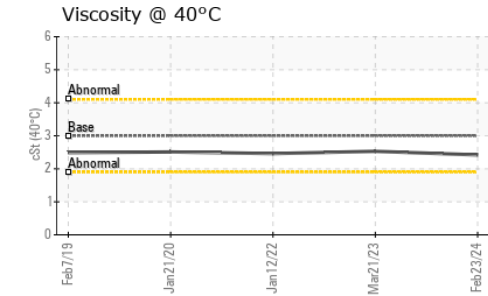
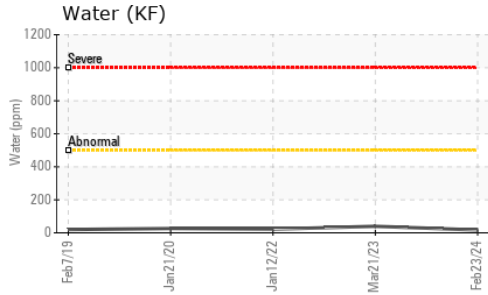
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<b>1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<0.1	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Water	%	ASTM D6304	<0.05	<b>0.002</b>	0.003	0.002
ppm Water	ppm	ASTM D6304	<500	<b>17</b>	39.7	22.1
% Gasoline	%	*In-House	<0.50	<b>0.0</b>	0.0	---
% Biodiesel	%	*In-House	<20.0	<b>0.0</b>	0.0	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	---	220	---
Particles >6µm		ASTM D7647	>640	---	86	---
Particles >14µm		ASTM D7647	>80	---	15	---
Particles >21µm		ASTM D7647	>20	---	5	---
Particles >38µm		ASTM D7647	>4	---	1	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	15/14/11	---

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	<0.1	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Iron	ppm	ASTM D5185m	<0.1	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m	<0.1	<b>0</b>	8	3
Zinc	ppm	ASTM D5185m	<0.1	<b>0</b>	<1	0

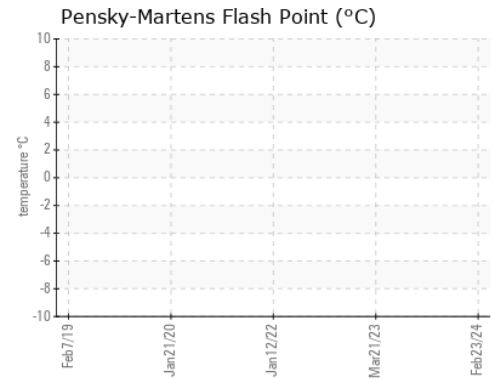


# FUEL REPORT



SAMPLE IMAGES					
method	limit/base	current	history1	history2	
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0034685  
**Lab Number** : 06122863  
**Unique Number** : 10937014  
**Test Package** : DF-5 ( Additional Tests: API, Cetane, Fuel, Screen )

**Received** : 19 Mar 2024  
**Tested** : 07 Apr 2024  
**Diagnosed** : 07 Apr 2024 - Doug Bogart

**KELLY GENERATOR & EQUIPMENT INC**  
 1955 DALE LN  
 OWINGS, MD  
 US 20736

Contact: LESLIE SNURR  
 LSNURR@KGE.COM

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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