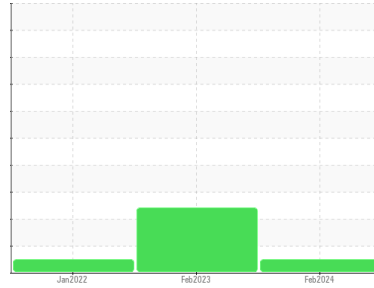




FUEL REPORT

Sample Rating Trend

NORMAL



Area
[PMOAS3186677]
 Machine Id
KOHLER 150REOZJF 3032955
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

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 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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	DC0034037	DC0023547	DC0019293
Sample Date	Client Info	21 Feb 2024	06 Feb 2023	17 Jan 2022
Machine Age	hrs	Client Info	0	0
Sample Status			NORMAL	ATTENTION

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2	
ASTM Color	scalar	*ASTM D1500	L4.5	L4.5	L5.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.42	2.45

SULFUR CONTENT

method	limit/base	current	history1	history2	
Sulfur	ppm	ASTM D5185m	10	0	<1
Sulfur (UVF)	ppm	ASTM D5453		7	8

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D7777	37.7	36.7	37.3	37.4

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<1.0	<1	0
Sodium	ppm	ASTM D5185m	<0.1	<1	0
Potassium	ppm	ASTM D5185m	<0.1	<1	<1
Water	%	ASTM D6304	<0.05	0.002	0.002
ppm Water	ppm	ASTM D6304	<500	25	25.0
% Gasoline	%	*In-House	<0.50	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0

FLUID CLEANLINESS

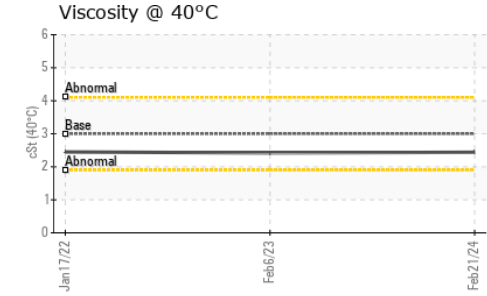
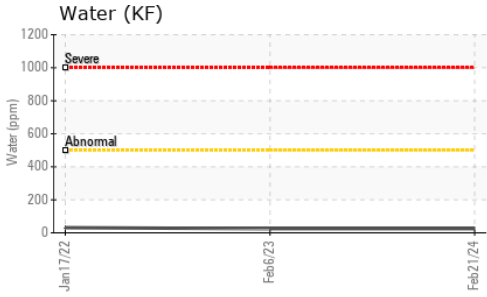
method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	---	▲ 23548	10938
Particles >6µm	ASTM D7647	>640	---	▲ 7113	2833
Particles >14µm	ASTM D7647	>80	---	▲ 963	229
Particles >21µm	ASTM D7647	>20	---	▲ 260	31
Particles >38µm	ASTM D7647	>4	---	▲ 20	0
Particles >71µm	ASTM D7647	>3	---	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	---	▲ 22/20/17	21/19/15

HEAVY METALS

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

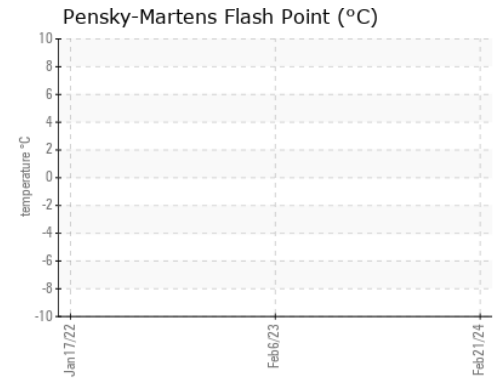


FUEL REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034037 **Received** : 22 Feb 2024
Lab Number : 06098062 **Tested** : 27 Feb 2024
Unique Number : 10896292 **Diagnosed** : 27 Feb 2024 - Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, 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)