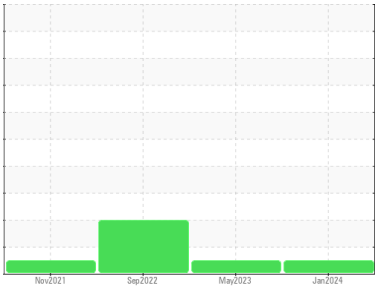
FUEL REPORT

Sample Rating Trend



NORMAL

Area
[PMOAS2856063]
Machine Id
SR4B-GD G4W00785
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW 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 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		**DC0034220**	DC0029122	DC0023530
Sample Date		Client Info		**26 Jan 2024**	12 May 2023	09 Sep 2022
Machine Age	hrs	Client Info		**0**	213	210
Sample Status				**NORMAL**	NORMAL	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.5**	L4.0	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	**2.53**	2.46	2.95

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	**3**	0	▲ 270
Sulfur (UVF)	ppm	ASTM D5453		**10**	14	189

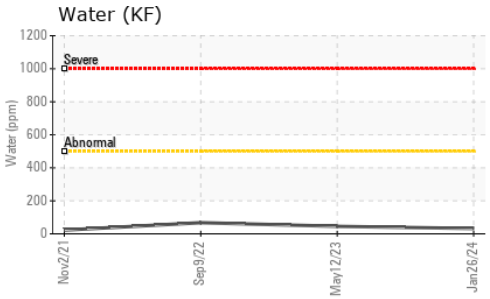
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	**35.8**	35.8	35.5

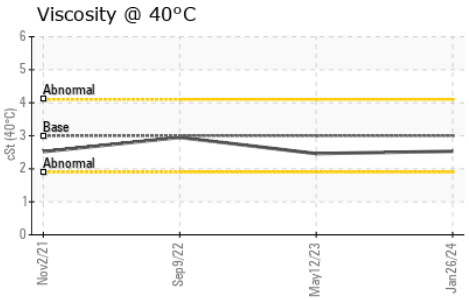
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**2**	<1	1
Sodium	ppm	ASTM D5185m	<0.1	**<1**	0	0
Potassium	ppm	ASTM D5185m	<0.1	**<1**	0	0
Water	%	ASTM D6304	<0.05	**0.003**	0.004	0.006
ppm Water	ppm	ASTM D6304	<500	**32**	45.3	67.5
% Gasoline	%	*In-House	<0.50	**0.0**	0.0	0.0
% Biodiesel	%	*In-House	<20.0	**0.0**	0.0	0.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**---**	1792	28105
Particles >6µm		ASTM D7647	>640	**---**	638	8825
Particles >14µm		ASTM D7647	>80	**---**	100	1020
Particles >21µm		ASTM D7647	>20	**---**	40	284
Particles >38µm		ASTM D7647	>4	**---**	2	24
Particles >71µm		ASTM D7647	>3	**---**	0	1
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**---**	18/16/14	22/20/17

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	1	0
Nickel	ppm	ASTM D5185m	<0.1	**<1**	0	0
Lead	ppm	ASTM D5185m	<0.1	**0**	0	<1
Vanadium	ppm	ASTM D5185m	<0.1	**0**	0	0
Iron	ppm	ASTM D5185m	<0.1	**0**	0	0
Calcium	ppm	ASTM D5185m	<0.1	**1**	2	▲ 127
Magnesium	ppm	ASTM D5185m	<0.1	**<1**	<1	▲ 5
Phosphorus	ppm	ASTM D5185m	<0.1	**<1**	2	▲ 54
Zinc	ppm	ASTM D5185m	<0.1	**0**	0	▲ 61

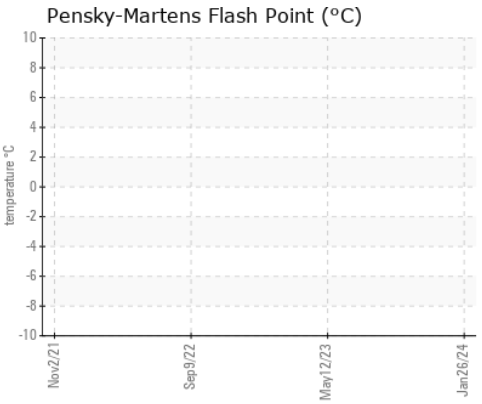
FUEL REPORT





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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034220
Lab Number : 06098057
Unique Number : 10896287
Test Package : MOB 1 (Additional Tests: API, Cetane, Color-ASTM, Fuel, GC-PercFuel, KF, PrtCount, XRF)

Received : 22 Feb 2024
Tested : 27 Feb 2024
Diagnosed : 27 Feb 2024 - Doug Bogart

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)

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