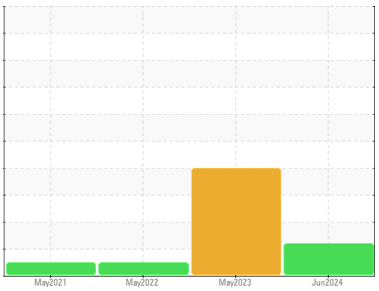
FUEL REPORT

Sample Rating Trend



ISO

Area
[PMOAS3214392]
Machine Id
400R0Z071 372321
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-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 ultra-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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DC0035905**	DC0029125	DC0013770
Sample Date		Client Info		**05 Jun 2024**	03 May 2023	16 May 2022
Machine Age	hrs	Client Info		**1513**	1398	0
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.0**	L4.5	L5.5
Visc @ 40°C	cSt	ASTM D445	3.0	**2.46**	2.41	2.37

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	250	**0**	0	0
Sulfur (UVF)	ppm	ASTM D5453		**11**	15	14

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	**36.5**	37.0	37.5

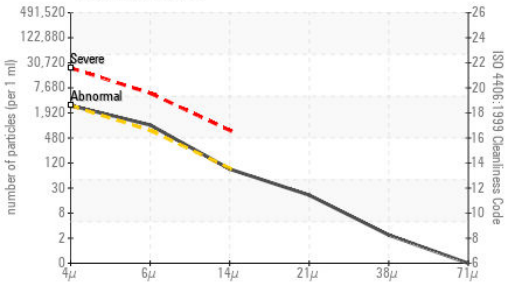
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	0	0
Sodium	ppm	ASTM D5185m	<0.1	**2**	0	<1
Potassium	ppm	ASTM D5185m	<0.1	**2**	0	0
Water	%	ASTM D6304	<0.05	**0.003**	0.005	0.003
ppm Water	ppm	ASTM D6304	<500	**26**	56.6	30.3
% Gasoline	%	*In-House	<0.50	**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	▲ **2525**	▲ 50108	9097
Particles >6µm		ASTM D7647	>640	▲ **862**	▲ 15471	3606
Particles >14µm		ASTM D7647	>80	**76**	▲ 1380	687
Particles >21µm		ASTM D7647	>20	**18**	▲ 366	215
Particles >38µm		ASTM D7647	>4	**2**	▲ 17	7
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **19/17/13**	▲ 23/21/18	20/19/17

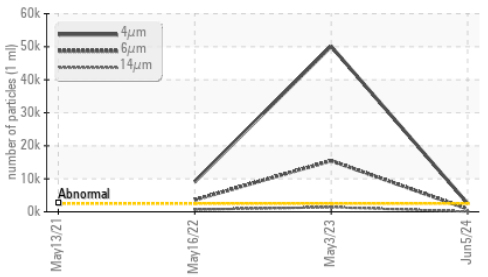
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	6	0
Nickel	ppm	ASTM D5185m	<0.1	**<1**	0	0
Lead	ppm	ASTM D5185m	<0.1	**0**	0	0
Vanadium	ppm	ASTM D5185m	<0.1	**0**	0	0
Iron	ppm	ASTM D5185m	<0.1	**0**	0	0
Calcium	ppm	ASTM D5185m	<0.1	**<1**	0	0
Magnesium	ppm	ASTM D5185m	<0.1	**<1**	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	**0**	0	0
Zinc	ppm	ASTM D5185m	<0.1	**1**	0	0

FUEL REPORT

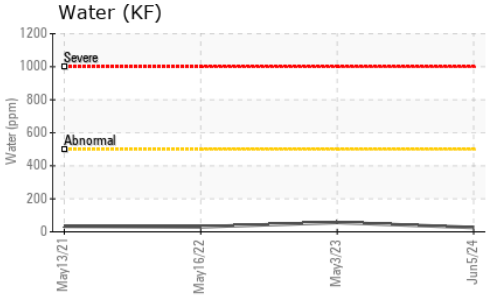
Particle Count



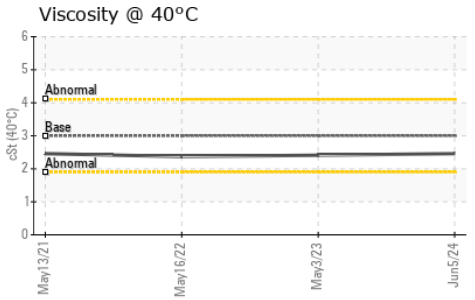
Particle Trend



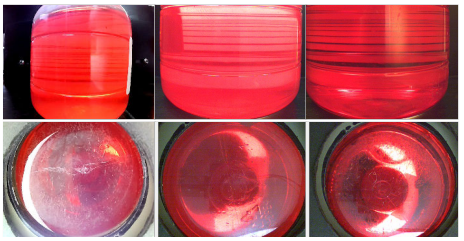
Water (KF)



Viscosity @ 40°C

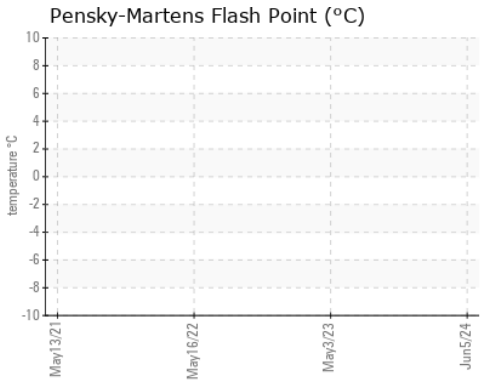


SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS

Pensky-Martens Flash Point (°C)



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0035905
Lab Number : 06209105
Unique Number : 11076566
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

Received : 13 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Elizabeth Valachovic

Certificate L2367

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)