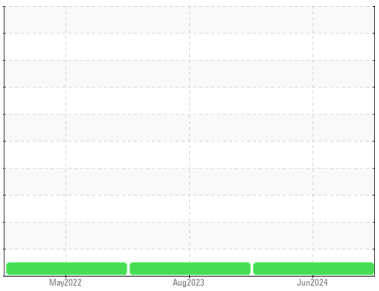
FUEL REPORT

Sample Rating Trend



NORMAL

Area
[PMOAS3263459]
Machine Id
13994550700 - GEN 4 (S/N 2114769)
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, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

Fuel Condition
Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DC0036953**	DC0030149	DC0014137
Sample Date		Client Info		**06 Jun 2024**	24 Aug 2023	04 May 2022
Machine Age	hrs	Client Info		**749**	712	618
Sample Status				**NORMAL**	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.0**	L4.0	L5.5
Visc @ 40°C	cSt	ASTM D445	3.0	**2.53**	2.46	2.53

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	**0**	0	2
Sulfur (UVF)	ppm	ASTM D5453		**8**	8	11

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	**37.3**	37.3	37.0

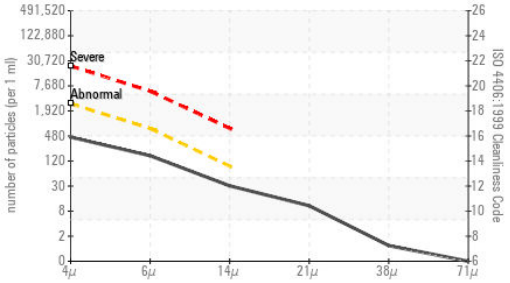
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	0	<1
Sodium	ppm	ASTM D5185m	<0.1	**2**	0	0
Potassium	ppm	ASTM D5185m	<0.1	**2**	0	0
Water	%	ASTM D6304	<0.05	**0.003**	0.003	0.002
ppm Water	ppm	ASTM D6304	<500	**28**	30.6	18.9
% Gasoline	%	*In-House	<0.50	**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	**395**	---	15327
Particles >6µm		ASTM D7647	>640	**142**	---	3466
Particles >14µm		ASTM D7647	>80	**27**	---	319
Particles >21µm		ASTM D7647	>20	**9**	---	94
Particles >38µm		ASTM D7647	>4	**1**	---	3
Particles >71µm		ASTM D7647	>3	**0**	---	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**16/14/12**	---	21/19/15

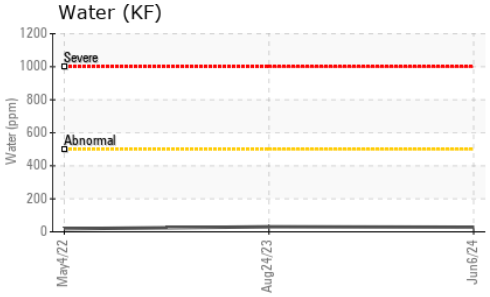
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185m	<0.1	**<1**	0	<1
Lead	ppm	ASTM D5185m	<0.1	**0**	0	0
Vanadium	ppm	ASTM D5185m	<0.1	**0**	0	0
Iron	ppm	ASTM D5185m	<0.1	**0**	0	0
Calcium	ppm	ASTM D5185m	<0.1	**0**	0	<1
Magnesium	ppm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

FUEL REPORT

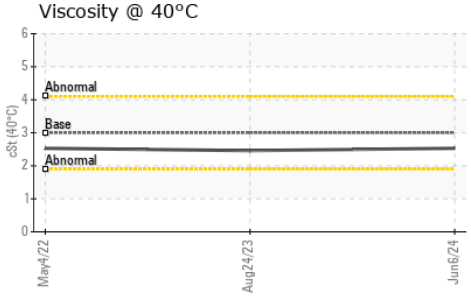
Particle Count



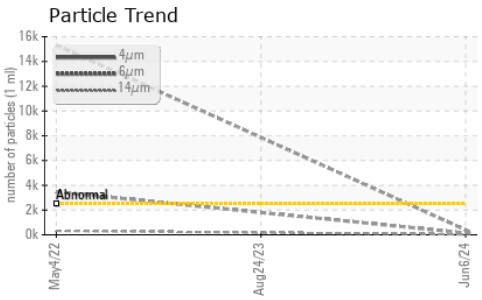
Water (KF)

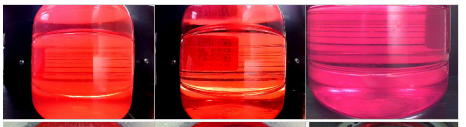
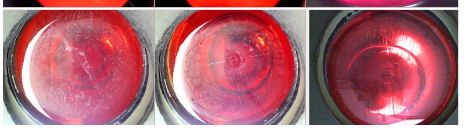


Viscosity @ 40°C



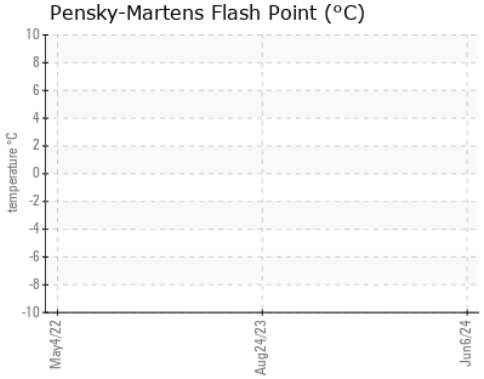
Particle Trend



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

Pensky-Martens Flash Point (°C)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0036953
Lab Number : 06209103
Unique Number : 11076564
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, PrtCount, Screen)

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

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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OWINGS, MD
US 20736
Contact: LESLIE SNURR
LSNURR@KGE.COM
T: (410)257-5225
F: (410)257-5227

Report Id: KELOWI [WUSCAR] 06209103 (Generated: 06/22/2024 06:15:22) Rev: 1
Contact/Location: LESLIE SNURR - KELOWI