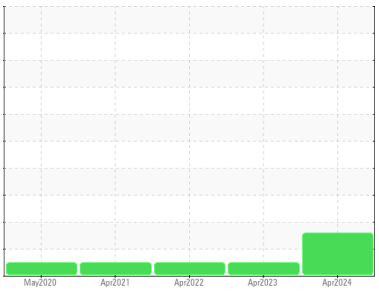
FUEL REPORT

Sample Rating Trend



WATER

Area
[PMOAS3372430]
Machine Id
SD300 FREDERICK DR (S/N 2103231)
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (1000 GAL)

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component.

Corrosion
All metal levels are normal indicating no corrosion in the system.

Contaminants
Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

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		**DC0034674**	DC0029069	DC0019545
Sample Date		Client Info		**19 Apr 2024**	04 Apr 2023	19 Apr 2022
Machine Age	hrs	Client Info		**603**	561	593
Sample Status				**ABNORMAL**	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L5.5**	L4.5	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	**2.42**	2.48	2.4

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	250	**0**	5	3
Sulfur (UVF)	ppm	ASTM D5453		**15**	14	13

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	**36.4**	36.4	36.2

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**0**	0	0
Sodium	ppm	ASTM D5185m	<0.1	**0**	0	<1
Potassium	ppm	ASTM D5185m	<0.1	**0**	0	0
Water	%	ASTM D6304	<0.05	**0.007**	0.005	0.004
ppm Water	ppm	ASTM D6304	<500	**79**	53.2	48.2
% 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	**---**	7461	5126
Particles >6µm		ASTM D7647	>640	**---**	1625	1650
Particles >14µm		ASTM D7647	>80	**---**	106	162
Particles >21µm		ASTM D7647	>20	**---**	29	27
Particles >38µm		ASTM D7647	>4	**---**	1	2
Particles >71µm		ASTM D7647	>3	**---**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**---**	20/18/14	20/18/15

MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	**0**	---	---
Yeast	CFU/ml	WC-Method	>=100000	**0**	---	---
Mold	Colonies	WC-Method	MODER	**---**	---	---

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

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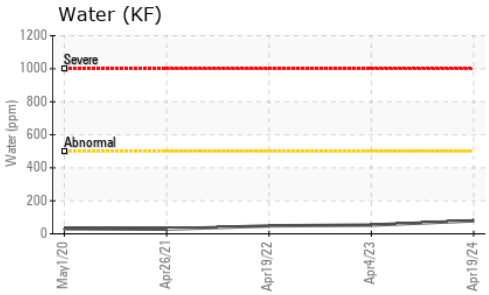
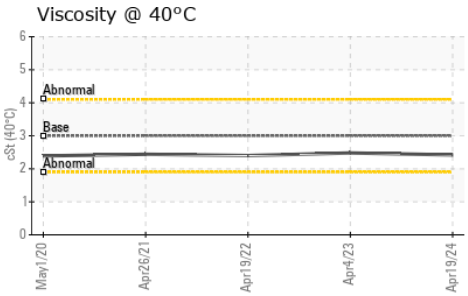
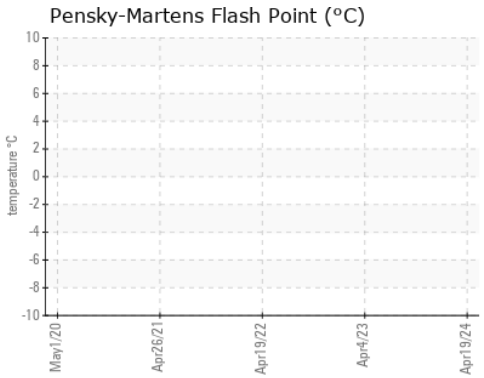




SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034674
Lab Number : 06159975
Unique Number : 10995398
Test Package : DF-5 (Additional Tests: API, Bacteria, Cetane, Fuel, PrtCount, Screen)

Received : 24 Apr 2024
Tested : 06 May 2024
Diagnosed : 06 May 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)

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US 20736
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Report Id: KELOWI [WUSCAR] 06159975 (Generated: 05/06/2024 22:06:12) Rev: 2
Contact/Location: LESLIE SNURR - KELOWI