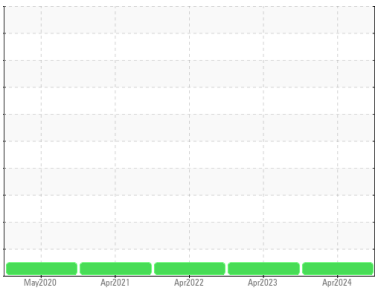
FUEL REPORT

Sample Rating Trend



NORMAL

Area
[PMOAS3372425]
Machine Id
3001719515
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation
All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

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

Contaminants
There is no Bacteria, Yeast and/or Fungus indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel.

Fuel Condition
Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**DC0035920**	DC0029077	DC0019532
Sample Date		Client Info		**11 Apr 2024**	05 Apr 2023	21 Apr 2022
Machine Age	hrs	Client Info		**0**	155	115
Sample Status				**NORMAL**	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.0**	L4.0	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	**2.42**	2.53	2.46

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	250	**0**	0	12
Sulfur (UVF)	ppm	ASTM D5453		**25**	32	37

IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	**37.0**	37.1	36.9

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**0**	<1	0
Sodium	ppm	ASTM D5185m	<0.1	**0**	0	0
Potassium	ppm	ASTM D5185m	<0.1	**0**	<1	0
Water	%	ASTM D6304	<0.05	**0.005**	0.003	0.002
ppm Water	ppm	ASTM D6304	<500	**58**	27.9	16.0
% 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	**---**	3176	3071
Particles >6µm	ASTM D7647	>640	**---**	1052	863
Particles >14µm	ASTM D7647	>80	**---**	90	82
Particles >21µm	ASTM D7647	>20	**---**	20	18
Particles >38µm	ASTM D7647	>4	**---**	0	2
Particles >71µm	ASTM D7647	>3	**---**	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	**---**	19/17/14	19/17/14

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	0	0
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**	6	0
Zinc	ppm	ASTM D5185m	<0.1	**0**	0	0

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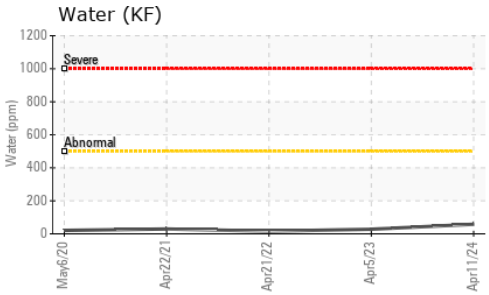
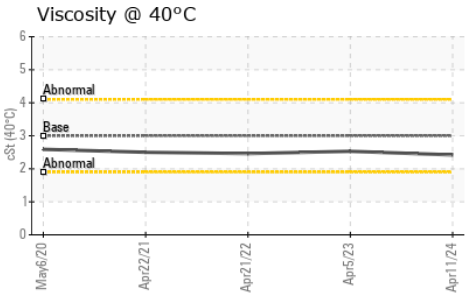
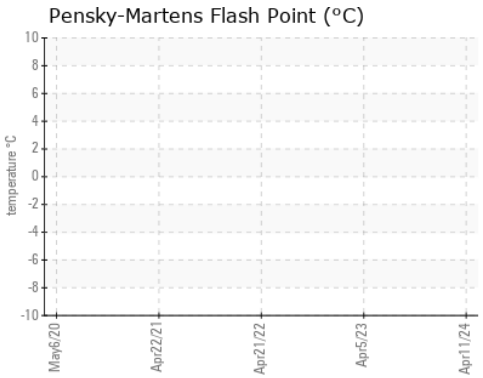




SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0035920 **Received** : 24 Apr 2024
Lab Number : 06159979 **Tested** : 06 May 2024
Unique Number : 10995402 **Diagnosed** : 06 May 2024 - Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, PrtCount, Screen)

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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