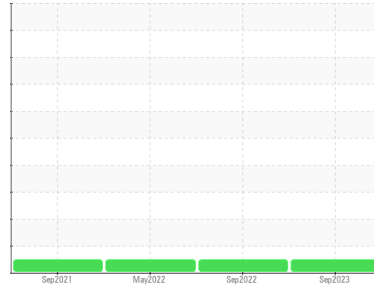




FUEL REPORT

Sample Rating Trend

NORMAL



Area
[W121544]
 Machine Id
GENERAC 3005703226 - HILLCO PINEY GROVE
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (2914 GAL)

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

There is no bacteria or fungus (yeast and/or mold) 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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0770636	WC0633677	WC0633764
Sample Date	Client Info			20 Sep 2023	12 Sep 2022	25 May 2022
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
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ASTM Color	scalar	*ASTM D1500		L4.0	L4.5	L5.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.45	2.42

SULFUR CONTENT		method	limit/base	current	history1	history2
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Sulfur	ppm	ASTM D5185m	10	54	0	0
Sulfur (UVF)	ppm	ASTM D5453		9	9	10

CONTAMINANTS		method	limit/base	current	history1	history2
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Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	<1	0	<1
Potassium	ppm	ASTM D5185m	<0.1	0	0	0
Water	%	ASTM D6304	<0.05	0.003	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	37.7	27.3	27.4
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	2.3	1.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
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Particles >4µm		ASTM D7647	>2500	---	55188	6650
Particles >6µm		ASTM D7647	>640	---	11098	1618
Particles >14µm		ASTM D7647	>80	---	791	159
Particles >21µm		ASTM D7647	>20	---	193	33
Particles >38µm		ASTM D7647	>4	---	7	2
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	23/21/17	20/18/14

HEAVY METALS		method	limit/base	current	history1	history2
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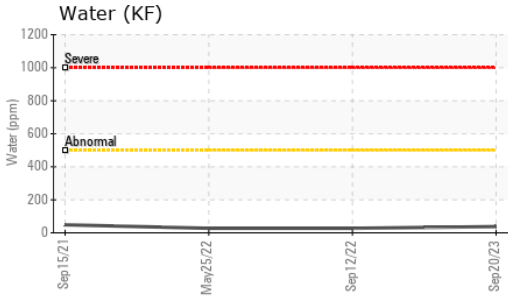
Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	0
Lead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m	<0.1	0	0	0
Magnesium	ppm	ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	0	4
Zinc	ppm	ASTM D5185m	<0.1	0	0	0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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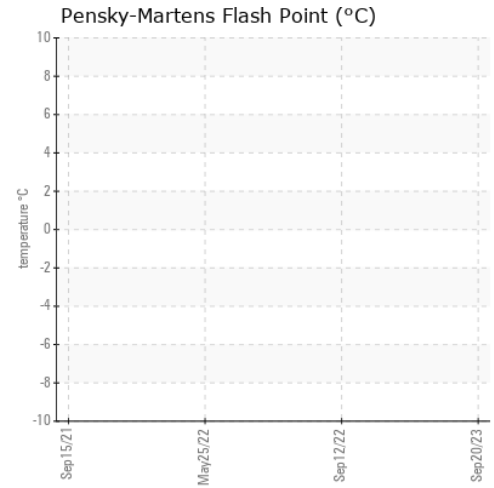
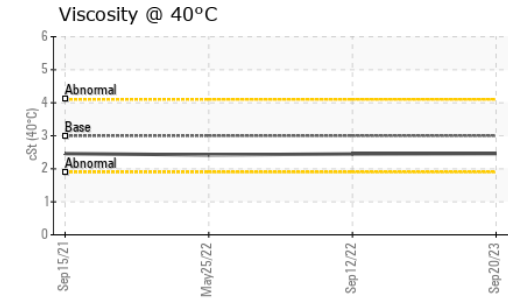




FUEL REPORT



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0770636 **Received** : 16 Oct 2023
Lab Number : 05980088 **Diagnosed** : 23 Oct 2023
Unique Number : 10697383 **Diagnostician** : Doug Bogart
Test Package : DF-5 (Additional Tests: 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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