



FUEL REPORT

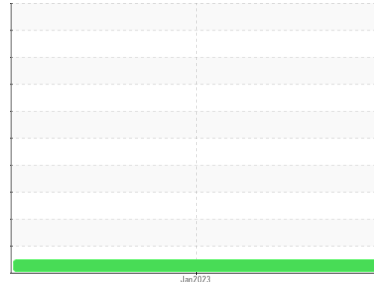
Sample Rating Trend

NORMAL



Machine Id
3039567 (S/N 30039567)

Component
Diesel Fuel
Fluid
NOT GIVEN (--- 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

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. The amount and size of particulates present in the system are acceptable.

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	DC0023549	---	---
Sample Date	Client Info	21 Jan 2023	---	---
Machine Age	hrs Client Info	477	---	---
Sample Status		NORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar *ASTM D1500	L4.5	---	---
Visc @ 40°C	cSt ASTM D445	2.25	---	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	0	---	---
Sulfur (UVF)	ppm ASTM D5453	8	---	---

IGNITION QUALITY

method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	0	---	---
Sodium	ppm ASTM D5185m <0.1	0	---	---
Potassium	ppm ASTM D5185m <0.1	<1	---	---
Water	% ASTM D6304 <0.05	0.00	---	---
ppm Water	ppm ASTM D6304 <500	0.00	---	---
% Gasoline	% *In-House <0.50	0.0	---	---
% Biodiesel	% *In-House <20.0	0.0	---	---

FLUID CLEANLINESS

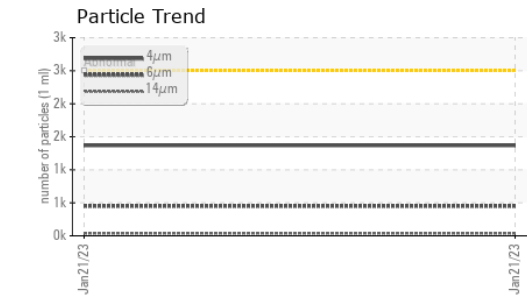
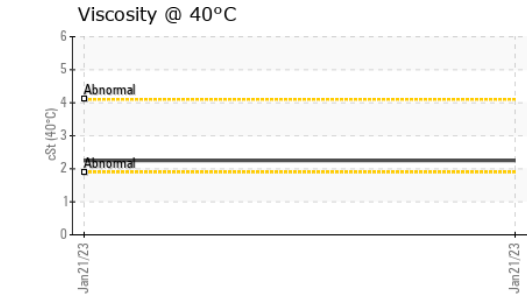
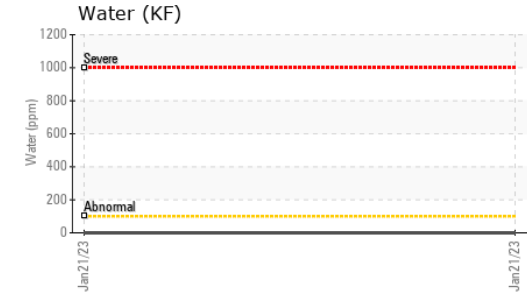
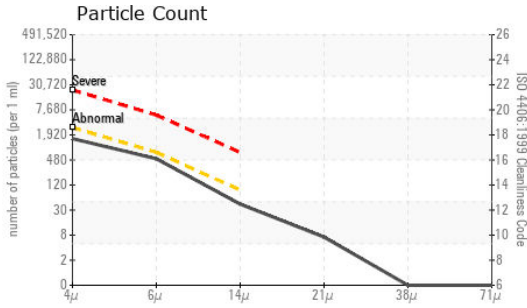
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	1368	---	---
Particles >6µm	ASTM D7647 >640	451	---	---
Particles >14µm	ASTM D7647 >80	37	---	---
Particles >21µm	ASTM D7647 >20	6	---	---
Particles >38µm	ASTM D7647 >4	0	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >18/16/13	18/16/12	---	---

HEAVY METALS

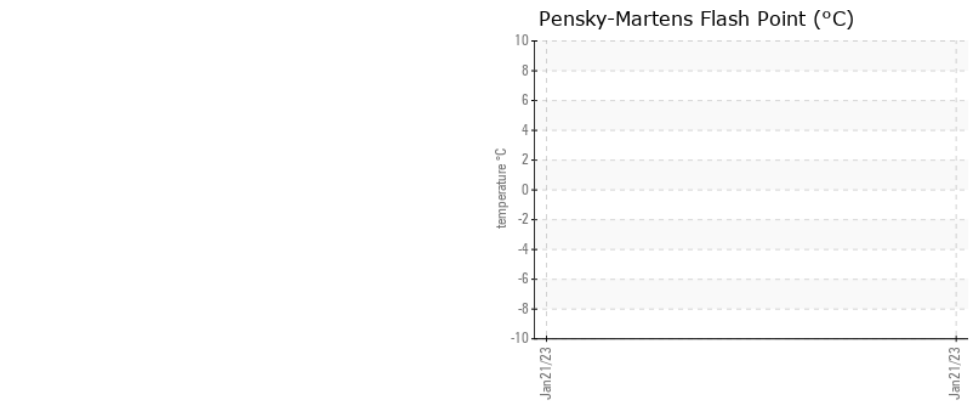
method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m <0.1	0	---	---
Nickel	ppm ASTM D5185m <0.1	0	---	---
Lead	ppm ASTM D5185m <0.1	<1	---	---
Vanadium	ppm ASTM D5185m <0.1	0	---	---
Iron	ppm ASTM D5185m <0.1	0	---	---
Calcium	ppm ASTM D5185m <0.1	0	---	---
Magnesium	ppm ASTM D5185m 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



FUEL REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0023549 **Received** : 14 Feb 2023
Lab Number : 05767698 **Diagnosed** : 20 Feb 2023
Unique Number : 10337306 **Diagnostician** : Doug Bogart
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, Screen)

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 US 20736
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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)