



FUEL REPORT

Sample Rating Trend

WATER



Area
[14576]
 Machine Id
RI-1 - BIODIESEL
 Component
Tank Diesel Fuel
 Fluid
DIESEL FUEL No. 1 (--- GAL)



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. Please note that the fuel was unsuitable to perform some of the normal laboratory tests.

Corrosion

The iron level is abnormal.

Contaminants

There is a high amount of particulates present in the fuel. There is a light concentration of water present in the fuel.

Fuel Condition

The fuel viscosity is higher than normal. The biodiesel content is higher than normal. 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	WC0850860	---	---
Sample Date	Client Info	15 Aug 2023	---	---
Machine Age	hrs Client Info	0	---	---
Sample Status		ABNORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
ASTM Color	scalar *ASTM D1500	L5.5	---	---
Visc @ 40°C	cSt ASTM D445 2.4	▲ 5.01	---	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	41	---	---
Sulfur (UVF)	ppm ASTM D5453	11	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	<1	---	---
Sodium	ppm ASTM D5185m <0.1	0	---	---
Potassium	ppm ASTM D5185m <0.1	0	---	---
Water	% ASTM D6304 <0.05	▲ 0.179	---	---
ppm Water	ppm ASTM D6304 <500	▲ 1797.1	---	---
% Gasoline	% *In-House <0.50	0.0	---	---
% Biodiesel	% *In-House <20.0	▲ 69.9	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	▲ 67844	---	---
Particles >6µm	ASTM D7647 >640	▲ 24029	---	---
Particles >14µm	ASTM D7647 >80	▲ 2231	---	---
Particles >21µm	ASTM D7647 >20	▲ 650	---	---
Particles >38µm	ASTM D7647 >4	▲ 32	---	---
Particles >71µm	ASTM D7647 >3	1	---	---
Oil Cleanliness	ISO 4406 (c) >18/16/13	▲ 23/22/18	---	---

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	▲ 428	---	---
Calcium	ppm ASTM D5185m <0.1	3	---	---
Magnesium	ppm ASTM D5185m <0.1	3	---	---
Phosphorus	ppm ASTM D5185m <0.1	12	---	---
Zinc	ppm ASTM D5185m <0.1	0	---	---

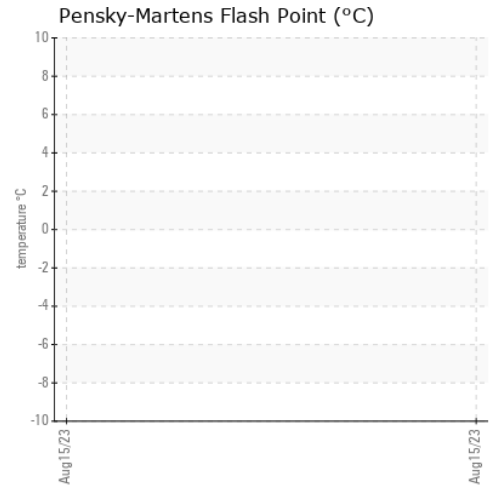
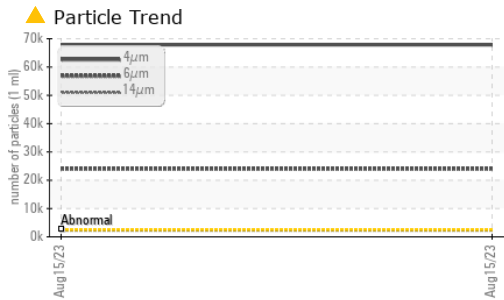
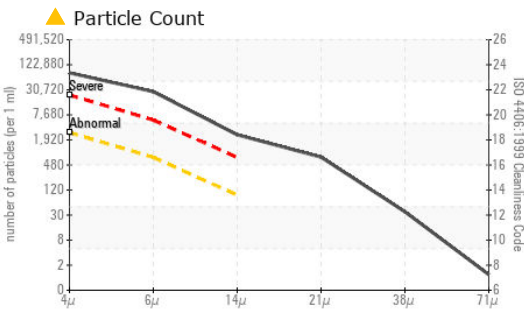
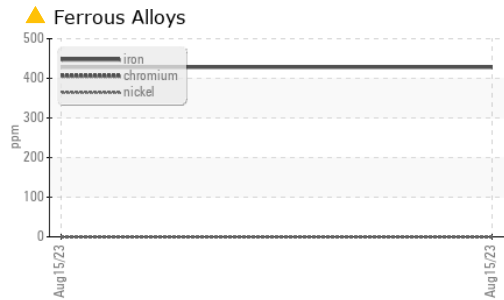
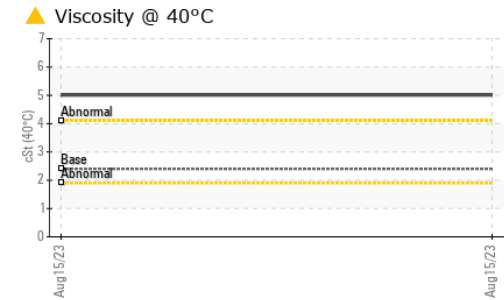
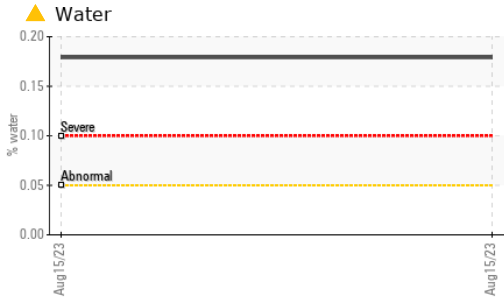
SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			<i>no image</i>	<i>no image</i>
Bottom			<i>no image</i>	<i>no image</i>



FUEL REPORT

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0850860 **Received** : 18 Aug 2023
Lab Number : 05928541 **Diagnosed** : 25 Aug 2023
Unique Number : 10608488 **Diagnostician** : Doug Bogart
Test Package : DF-2 (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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