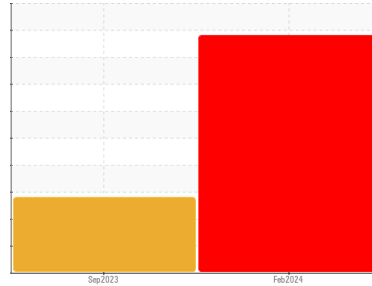




FUEL REPORT

Sample Rating Trend

WATER



Machine Id
CORESITE-RESTON-UST4

Component
Bottom Diesel Fuel
Fluid
DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system. We advise an early resample to confirm this situation.

▲ Corrosion

The iron level is abnormal.

▲ Contaminants

Insufficient sample was received to conduct all the routine laboratory tests. Excessive free water present in the sample. There is bacteria or fungus (yeast and/or mold) present in the sample.

▲ Fuel Condition

The fuel is no longer serviceable due to the presence of contaminants. 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			WC0914214	WC0787066	---
Sample Date	Client Info			14 Feb 2024	14 Sep 2023	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				SEVERE	ABNORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L5.5	L4.5	---
Visc @ 40°C	cSt	ASTM D445	4.1	▲ 0.85	2.53	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		1	620	---
Sulfur (UVF)	ppm	ASTM D5453		8	457	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	---
Sodium	ppm	ASTM D5185m	<0.1	0	<1	---
Potassium	ppm	ASTM D5185m	<0.1	0	0	---
Water	%	ASTM D6304	<0.05	0.017	0.034	---
ppm Water	ppm	ASTM D6304	<500	171	340.1	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---

MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0	0	---
Yeast	CFU/ml	WC-Method	>=100000	▲ 100	0	---
Mold	Colonies	WC-Method	MODER	---	---	---

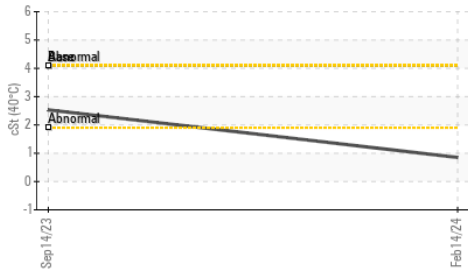
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	0	---
Iron	ppm	ASTM D5185m	<0.1	▲ 18	0	---
Calcium	ppm	ASTM D5185m	<0.1	0	1	---
Magnesium	ppm	ASTM D5185m	<0.1	0	2	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	1	---
Zinc	ppm	ASTM D5185m	<0.1	0	0	---

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



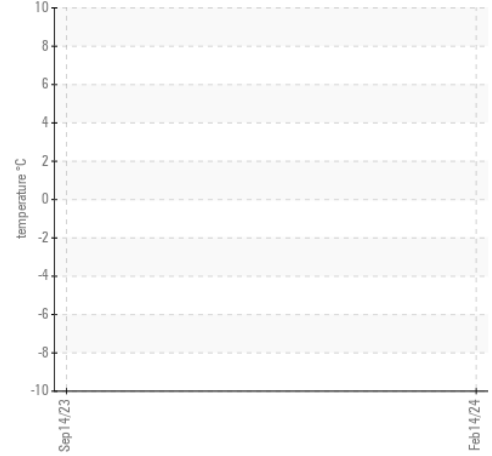
FUEL REPORT

▲ Viscosity @ 40°C

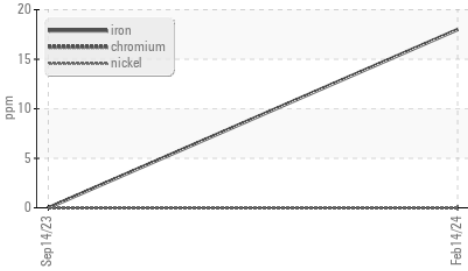


GRAPHS

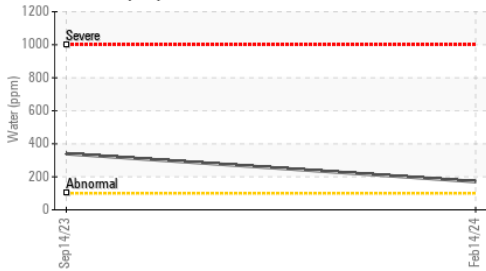
Pensky-Martens Flash Point (°C)



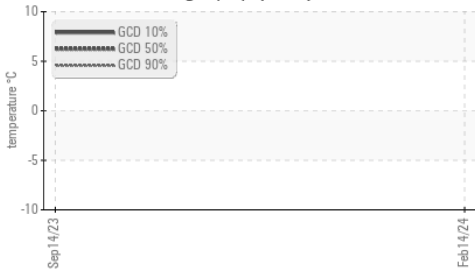
▲ Ferrous Alloys



Water (KF)



Gas Chromatography (GCD)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0914214 **Received** : 26 Feb 2024
Lab Number : **06101275** **Tested** : 04 Mar 2024
Unique Number : 10899505 **Diagnosed** : 04 Mar 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Bacteria, 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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