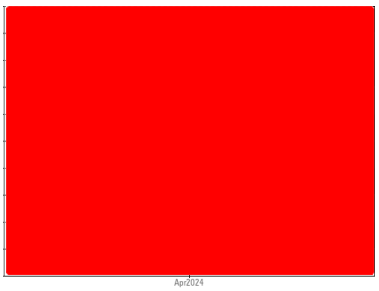
FUEL REPORT

Sample Rating Trend



CONTAMINANT

Machine Id
HILLSBOROUGH - PIEDMONT ELECTRIC
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

DIAGNOSIS

Recommendation
We advise that you check all areas where contaminants can enter the system. We recommend that you drain the fuel from the component if this has not already been done.

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

Contaminants
There is a high amount of particulates present in the fuel. Laboratory tests indicate the presence of gasoline in the fuel Moderate concentration of visible dirt/debris present in the fuel.

Fuel Condition
The fuel viscosity is lower than normal. Laboratory tests indicate that this sample does NOT meet specifications for No.2 diesel fuel, low sulfur (CGSB-3.517-3 type A). The fuel is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC06145511**	---	---
Sample Date		Client Info		**08 Apr 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Sample Status				**SEVERE**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	**Yllow**	---	---
ASTM Color	scalar	*ASTM D1500		**L3.0**	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	▲ **1.03**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	**14**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**4**	---	---

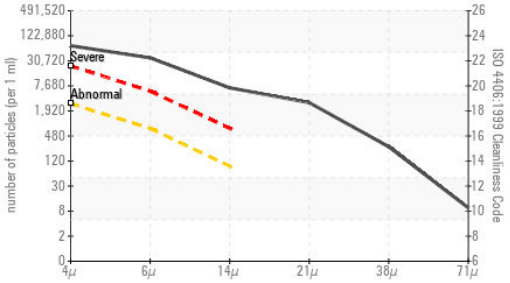
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**5**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Water	%	ASTM D6304	<0.05	**0.160**	---	---
ppm Water	ppm	ASTM D6304	<500	▲ **1603**	---	---
% Gasoline	%	*In-House	<0.50	▲ **75.8**	---	---
% Biodiesel	%	*In-House	<20.0	**0.0**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **60989**	---	---
Particles >6µm		ASTM D7647	>640	▲ **31338**	---	---
Particles >14µm		ASTM D7647	>80	▲ **6008**	---	---
Particles >21µm		ASTM D7647	>20	▲ **2652**	---	---
Particles >38µm		ASTM D7647	>4	▲ **233**	---	---
Particles >71µm		ASTM D7647	>3	▲ **8**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **23/22/20**	---	---

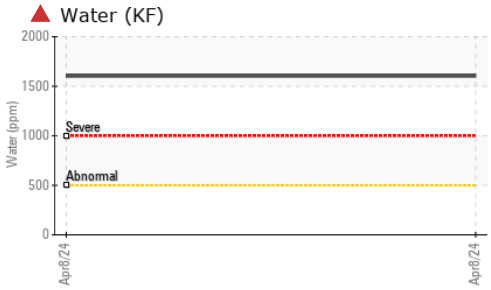
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	---	---
Nickel	ppm	ASTM D5185m	<0.1	**0**	---	---
Lead	ppm	ASTM D5185m	<0.1	**0**	---	---
Vanadium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Iron	ppm	ASTM D5185m	<0.1	**0**	---	---
Calcium	ppm	ASTM D5185m	<0.1	**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

FUEL REPORT

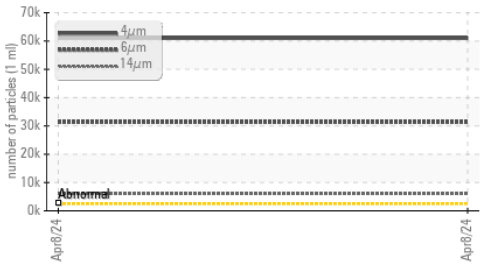
Particle Count



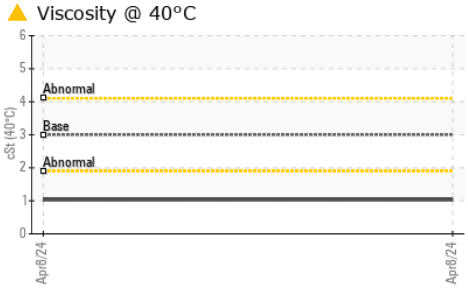
Water (KF)

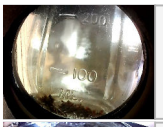


Particle Trend



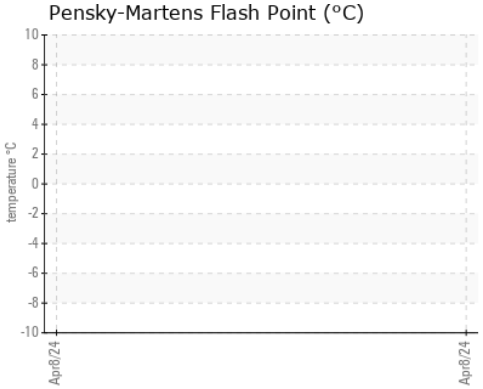
Viscosity @ 40°C



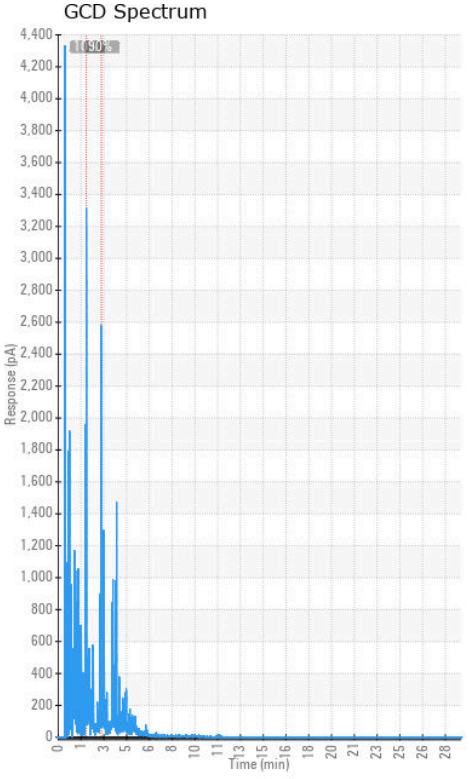
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

Pensky-Martens Flash Point (°C)



GCD Spectrum



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06145511 **Received** : 10 Apr 2024
Lab Number : 06145511 **Tested** : 26 Apr 2024
Unique Number : 10970319 **Diagnosed** : 26 Apr 2024 - Angela Borella
Test Package : DF-2 (Additional Tests: Fuel, 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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