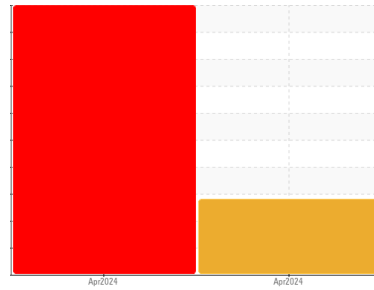




FUEL REPORT

Sample Rating Trend



ISO



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

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

Wear

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

Contamination

There is a high amount of particulates present in the fuel. Moderate concentration of visible dirt/debris present in the fuel.

Fluid Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC06145510	WC06145511	---
Sample Date	Client Info		09 Apr 2024	08 Apr 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	SEVERE	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yellow	Yellow	Yellow
ASTM Color	scalar	*ASTM D1500		L3.0	L3.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.4	▲ 1.03
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.8	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	14
Sulfur (UVF)	ppm	ASTM D5453		15	4

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171	---
5% Distillation Point	°C	ASTM D86		193	---
10% Distill Point	°C	ASTM D86	201	203	---
15% Distillation Point	°C	ASTM D86		212	---
20% Distill Point	°C	ASTM D86	216	220	---
30% Distill Point	°C	ASTM D86	230	236	---
40% Distill Point	°C	ASTM D86	243	250	---
50% Distill Point	°C	ASTM D86	255	263	---
60% Distill Point	°C	ASTM D86	267	276	---
70% Distill Point	°C	ASTM D86	280	289	---
80% Distill Point	°C	ASTM D86	295	303	---
85% Distillation Point	°C	ASTM D86		314	---
90% Distill Point	°C	ASTM D86	310	324	---
95% Distillation Point	°C	ASTM D86		342	---
Final Boiling Point	°C	ASTM D86	341	356	---

IGNITION QUALITY

	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	37	---	---
Cetane Index	ASTM D4737	<40.0	50	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	<1
Sodium	ppm	ASTM D5185m	<0.1	1	5
Potassium	ppm	ASTM D5185m	<0.1	0	<1
Water	%	ASTM D6304	<0.05	0.007	0.160
ppm Water	ppm	ASTM D6304	<500	72	▲ 1603
% Gasoline	%	*In-House	<0.50	0.0	▲ 75.8
% Biodiesel	%	*In-House	<20.0	0.0	0.0

