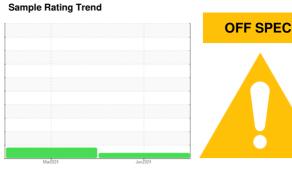


FUEL REPORT

Carilion Roanoke Memorial Hospital [17693] [Carilion Roanoke Memorial Hospital] REHAB DT

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 GAL)



DIAGNOSIS

Recommendation

We advise an early resample to confirm this situation.

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.

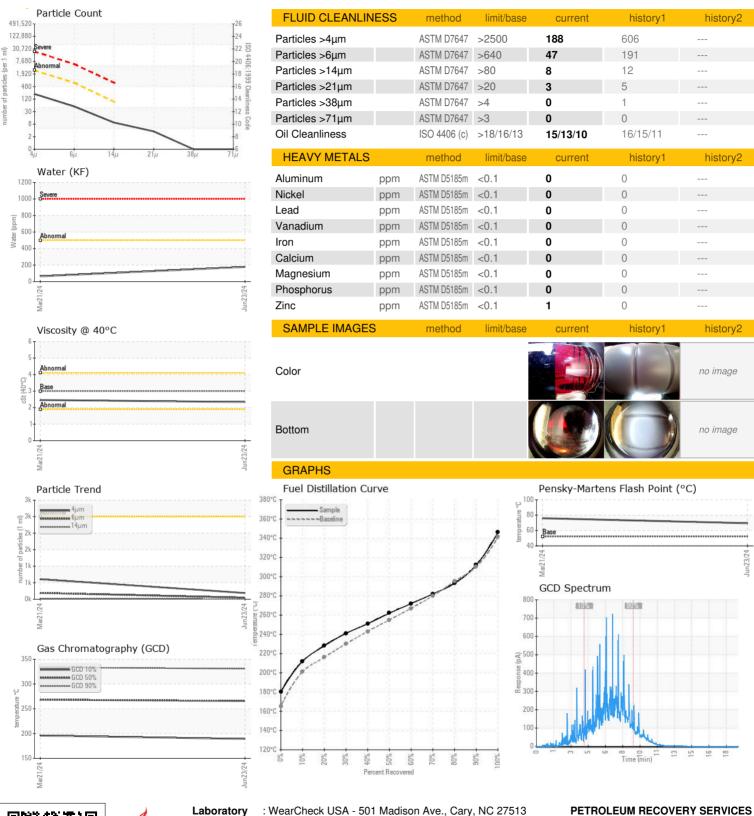
▲ Fuel Condition

The Cetane Number is lower than normal. Sulfur value derived by ASTM D5453 method for ULSD

R) (200 GAL)			Mar2024	Jun2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0957806	WC60139095	
Sample Date		Client Info		23 Jun 2024	21 Mar 2024	
Machine Age	hrs	Client Info		0	0	
Sample Status				ABNORMAL	ABNORMAL	
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839		0.873	
Fuel Color	text	*Visual Screen	Yllow	Red	Red	
ASTM Color	scalar	*ASTM D1500		L5.0	L4.5	
Visc @ 40°C	cSt	ASTM D445	3.0	2.34	2.46	
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	69.5	76	
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	2963	2725	
Sulfur (UVF)	ppm	ASTM D5453		2275	2259	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	180	164	
5% Distillation Point	°C	ASTM D86		202	203	
10% Distill Point	°C	ASTM D86	201	212	212	
15% Distillation Point	°C	ASTM D86		220	221	
20% Distill Point	°C	ASTM D86	216	228	228	
30% Distill Point	°C	ASTM D86	230	241	241	
40% Distill Point	°C	ASTM D86	243	251	251	
50% Distill Point	°C	ASTM D86	255	262	261	
60% Distill Point	°C	ASTM D86	267	272	270	
70% Distill Point	°C	ASTM D86	280	282	280	
80% Distill Point	°C	ASTM D86	295	293	293	
85% Distillation Point	°C	ASTM D86		303	301	
90% Distill Point	°C	ASTM D86	310	312	312	
95% Distillation Point	°C	ASTM D86		330	335	
Final Boiling Point	°C	ASTM D86	341	346	343	
Distillation Residue	%	ASTM D86	3.0		1.4	
Distillation Loss	%	ASTM D86	3.0		0.4	
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	31	30.6	
Cetane Index		ASTM D4737	<40.0	△ 36	<u>▲</u> 34.5	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	
Sodium	ppm	ASTM D5185m	<0.1	2	<1	
Potassium	ppm	ASTM D5185m	< 0.1	<1	0	
Water	%	ASTM D6304	< 0.05	0.017	0.006	
ppm Water	ppm	ASTM D6304	< 500	177	64	
% Gasoline	%	*In-House	< 0.50	0.0	0.0	
% Biodiesel	%	*In-House	<20.0	0.0	0.0	



FUEL REPORT







Certificate 12367

Laboratory Sample No.

: WC0957806 Lab Number : 06218725

Unique Number : 11096922

Received **Tested** Diagnosed

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)

PETROLEUM RECOVERY SERVICES

Contact/Location: AJAY EL - PETSUM

210 POWELL DR SUMMERVILLE, SC US 29483

Contact: AJAY EL Ajay@prsfuel.com T: (843)225-1777

: 24 Jun 2024

: 27 Jun 2024

: 27 Jun 2024 - Doug Bogart