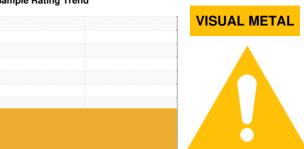


FUEL REPORT

Sample Rating Trend



Machine Id

ROXBORO - PIEDMONT ELECTRIC

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (

DIAGNOSIS

Recommendation

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

Corrosion

Light concentration of visible metal present. All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

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

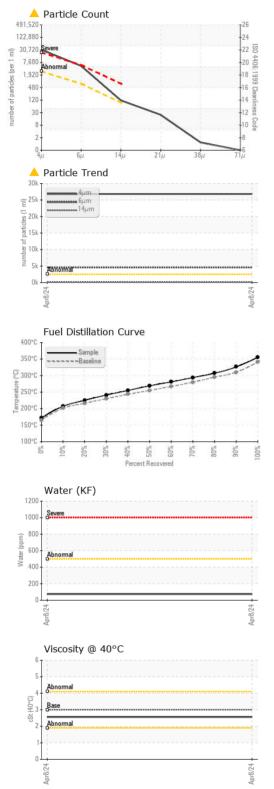
Fuel Condition

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

R) (QTS)				Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06145508		
Sample Date		Client Info		08 Apr 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	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	2.56		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61.3		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171		
5% Distillation Point	°C	ASTM D86		196		
10% Distill Point	°C	ASTM D86	201	207		
15% Distillation Point	°C	ASTM D86		216		
20% Distill Point	°C	ASTM D86	216	225		
30% Distill Point	°C	ASTM D86	230	241		
40% Distill Point	°C	ASTM D86	243	255		
50% Distill Point	°C	ASTM D86	255	269		
60% Distill Point	°C	ASTM D86	267	281		
70% Distill Point	°C	ASTM D86	280	294		
80% Distill Point	°C	ASTM D86	295	307		
85% Distillation Point	°C	ASTM D86	210	317		
90% Distill Point 95% Distillation Point	°C	ASTM D86	310	326 342		
Final Boiling Point	°C	ASTM D86	341	355		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36		
Cetane Index		ASTM D4737	<40.0	49		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	< 0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.007		
ppm Water	ppm	ASTM D6304	<500	74		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
	L00				,	Í
Particles >4µm		ASTM D7647	>2500	<u>^</u> 26819		
Particles >6µm		ASTM D7647	>640	4588		
Particles >14μm		ASTM D7647	>80	<u> </u>		
Particles >21μm		ASTM D7647	>20	21		
Particles >38μm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u>22/19/14</u>		
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0		
Yeast	CFU/ml	WC-Method	>=100000	10		
Mold	Colonies	WC-Method	MODER			
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	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	< 0.1	0		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image





Certificate 12367

Laboratory Sample No.

Lab Number : 06145508 Unique Number : 10970316

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06145508 Received : 10 Apr 2024 **Tested** : 26 Apr 2024

Diagnosed Test Package : DF-2 (Additional Tests: BACTERIA, 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.

: 26 Apr 2024 - Angela Borella

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

COUCH OIL COMPANY 2907 HILLSBOROUGH RD

DURHAM, NC

US 27705 Contact: JESSE BROWN jesse@couchoilcompany.com

T: (919)285-5408