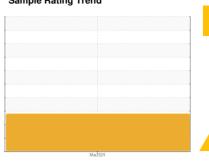


FUEL REPORT

Sample Rating Trend







Machine Id 114442 Component

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel.

Corrosion

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

Contaminants

There is a high amount of particles present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

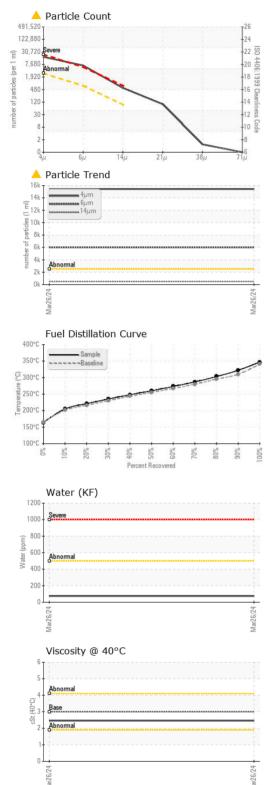
Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

R) (QTS)		Mar ² 024			`	
SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		WC06135403		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	EDTIES	method	limit/base		historyd	hiotomyO
	ENTIES			current	history1	history2
Specific Gravity		*ASTM D1298	0.839	0.848		
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	63.2		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	1016		
Sulfur (UVF)	ppm	ASTM D5453		828		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	163		
5% Distillation Point	°C	ASTM D86		193		
10% Distill Point	°C	ASTM D86	201	205		
15% Distillation Point	°C	ASTM D86		213		
20% Distill Point	°C	ASTM D86	216	221		
30% Distill Point	°C	ASTM D86	230	235		
40% Distill Point	°C	ASTM D86	243	248		
50% Distill Point	°C	ASTM D86	255	260		
60% Distill Point	°C	ASTM D86	267	273		
70% Distill Point	°C	ASTM D86	280	287		
80% Distill Point	°C	ASTM D86	295	303		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86	310	322		
95% Distillation Point	°C	ASTM D86		339		
Final Boiling Point	°C	ASTM D86	341	347		
Distillation Residue	%	ASTM D86	3.0	1.4		
Distillation Loss	%	ASTM D86	3.0	0.5		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	35.4		
Cetane Index		ASTM D4737	<40.0	43.5		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	< 0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.007		
ppm Water	ppm	ASTM D6304	<500	75		
% 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
Particles >4µm		ASTM D7647	>2500	15425		
Particles >6µm		ASTM D7647	>640	6007		
Particles >14µm		ASTM D7647	>80	502		
Particles >21µm		ASTM D7647	>20	<u>^</u> 84		
Particles >38µm		ASTM D7647	>4	1		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u>^</u> 21/20/16		
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0		
Yeast	CFU/ml	WC-Method	>=100000	0		
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	0		
Iron	ppm	ASTM D5185m	< 0.1	<1		
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 : 06135403 Unique Number : 10954868

: WC06135403

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Apr 2024 **Tested** : 11 Apr 2024

Diagnosed : 11 Apr 2024 - Doug Bogart

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.

COUCH OIL COMPANY

2907 HILLSBOROUGH RD DURHAM, NC

US 27705 Contact: JESSE BROWN jesse@couchoilcompany.com

T: (919)285-5408

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: COUDUR [WUSCAR] 06135403 (Generated: 04/12/2024 04:34:53) Rev: 1

Contact/Location: JESSE BROWN - COUDUR