

## FUEL REPORT

Sample Rating Trend

Machine Id

# 178660 - WEST INFILL DAY TANK

Component Diesel Fuel Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

## DIAGNOSIS

### A Recommendation

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

#### Corrosion

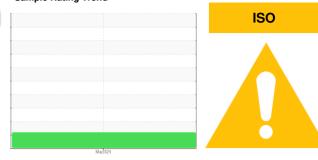
All metal levels are normal indicating no corrosion in the system.

### Contaminants

There is a high amount of silt (particulates < 14 microns in size) 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**

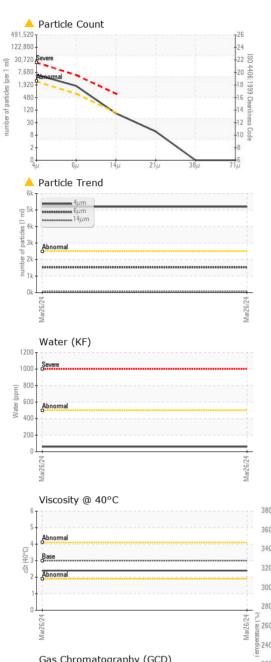
Sulfur value derived by ASTM D5453 method for ULSD validation.

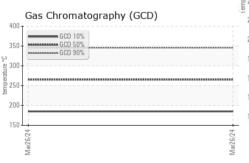


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06135394		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.4		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	63.1		
SULFUR CONTEI	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	94		
Sulfur (UVF)	ppm	ASTM D5453		77		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	174		
5% Distillation Point	°C	ASTM D86		197		
10% Distill Point	°C	ASTM D86	201	207		
15% Distillation Point	°C	ASTM D86		215		
20% Distill Point	°C	ASTM D86	216	222		
30% Distill Point	°C	ASTM D86	230	237		
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	290		
80% Distill Point	°C	ASTM D86	295	304		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86	310	325		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86	341	356		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
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	1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.006		
ppm Water	ppm	ASTM D6304	<500	60		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



## **FUEL REPORT**





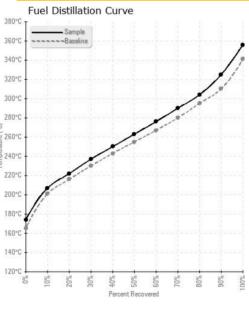
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> 5198</u>		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	74		
Particles >21µm		ASTM D7647	>20	10		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>A</b> 20/18/13		
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	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		method	limit/base	current	history1	history2
Color					no image	no image

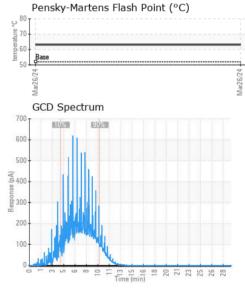
Bottom





## GRAPHS







: WC06135394 2907 HILLSBOROUGH RD Sample No. Received :01 Apr 2024 Lab Number : 06135394 Tested : 11 Apr 2024 Unique Number : 10954859 Diagnosed : 11 Apr 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: JESSE BROWN Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jesse@couchoilcompany.com \* - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Report Id: COUDUR [WUSCAR] 06135394 (Generated: 04/12/2024 14:13:39) Rev: 1

Laboratory

Contact/Location: JESSE BROWN - COUDUR

Page 2 of 2

E:

DURHAM, NC

T: (919)285-5408

US 27705

**COUCH OIL COMPANY**