

FUEL REPORT

Sample Rating Trend

NORMAL

Area CAROLINA MEADOWS Machine Id PINES FRONT

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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

Light concentration of visible dirt/debris present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The amount and size of particulates present in the system are acceptable.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

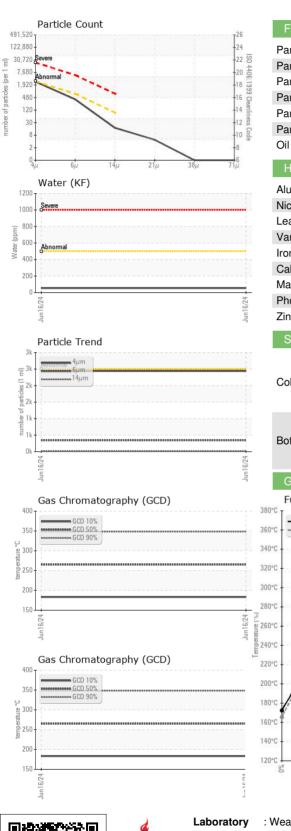




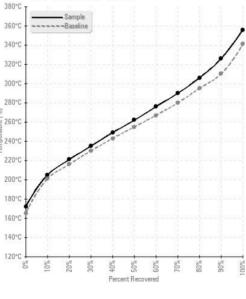
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06211179		
Sample Date		Client Info		16 Jun 2024		
Machine Age	mls	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61.5		
SULFUR CONTEN	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	183		
Sulfur (UVF)	ppm	ASTM D5453		372		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	172		
5% Distillation Point	°C	ASTM D86		195		
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	249		
50% Distill Point	°C	ASTM D86	255	262		
60% Distill Point	°C	ASTM D86	267	276		
70% Distill Point	°C	ASTM D86	280	290		
80% Distill Point	°C	ASTM D86	295	306		
85% Distillation Point	°C	ASTM D86		316		
90% Distill Point	°C	ASTM D86	310	326		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86	341	356		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	35		
Cetane Index		ASTM D4737	<40.0	47		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	< 0.05	0.005		
ppm Water	ppm	ASTM D6304	<500	54		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	1.2		



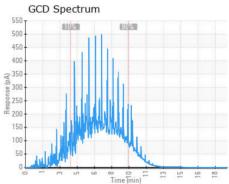
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FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
articles >4µm		ASTM D7647	>2500	2439		
articles >6µm		ASTM D7647	>640	346		
articles >14µm		ASTM D7647	>80	15		
articles >21µm		ASTM D7647	>20	4		
articles >38µm		ASTM D7647	>4	0		
articles >71µm		ASTM D7647	>3	0		
il Cleanliness		ISO 4406 (c)	>18/16/13	18/16/11		
HEAVY METALS		method	limit/base	current	history1	history2
uminum	ppm	ASTM D5185m	<0.1	0		
ickel	ppm	ASTM D5185m	<0.1	0		
ead	ppm	ASTM D5185m	<0.1	0		
anadium	ppm	ASTM D5185m	<0.1	0		
on	ppm	ASTM D5185m	<0.1	0		
alcium	ppm	ASTM D5185m	<0.1	0		
agnesium	ppm	ASTM D5185m	<0.1	0		
nosphorus	ppm	ASTM D5185m	<0.1	0		
nc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES		method	limit/base	current	history1	history2
olor					no image	no image
ottom					no image	no image
GRAPHS						
Fuel Distillation Cur	rve			Pensky-Marte	ns Flash Point (°C)
Sample			temperature °C	70		
			// ia	50 L T		
		/	1	16/24		16/24
		11		Jun1		
	_	1.		GCD Spectrur	n	
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COUCH OIL COMPANY : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC06211179 2907 HILLSBOROUGH RD Sample No. Received : 14 Jun 2024 Lab Number : 06211179 Tested : 20 Jun 2024 DURHAM, NC Unique Number : 11084043 Diagnosed : 20 Jun 2024 - Elizabeth Valachovic US 27705 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 T: (919)285-5408 * - 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)

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Contact/Location: JESSE BROWN - COUDUR

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