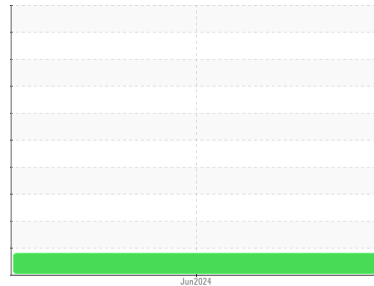




FUEL REPORT

Sample Rating Trend



ISO



Area
CAROLINA MEADOWS

Machine Id
BLDG 1-2-3

Component
Diesel Fuel

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

DIAGNOSIS

▲ Recommendation

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 light amount of silt (particulates < 6 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06211171	---	---
Sample Date	Client Info	16 Jun 2024	---	---
Machine Age	mls	Client Info	0	---
Sample Status			MARGINAL	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Fuel Color	text	*Visual Screen	Yellow	Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.5	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.2	---	---

SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185m	10	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		26	---	---

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D86	165	170	---	---
5% Distillation Point	°C	ASTM D86		192	---	---
10% Distill Point	°C	ASTM D86	201	202	---	---
15% Distillation Point	°C	ASTM D86		209	---	---
20% Distill Point	°C	ASTM D86	216	217	---	---
30% Distill Point	°C	ASTM D86	230	231	---	---
40% Distill Point	°C	ASTM D86	243	244	---	---
50% Distill Point	°C	ASTM D86	255	257	---	---
60% Distill Point	°C	ASTM D86	267	272	---	---
70% Distill Point	°C	ASTM D86	280	286	---	---
80% Distill Point	°C	ASTM D86	295	302	---	---
85% Distillation Point	°C	ASTM D86		313	---	---
90% Distill Point	°C	ASTM D86	310	324	---	---
95% Distillation Point	°C	ASTM D86		343	---	---
Final Boiling Point	°C	ASTM D86	341	358	---	---

IGNITION QUALITY

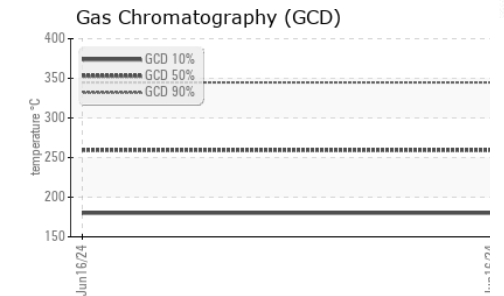
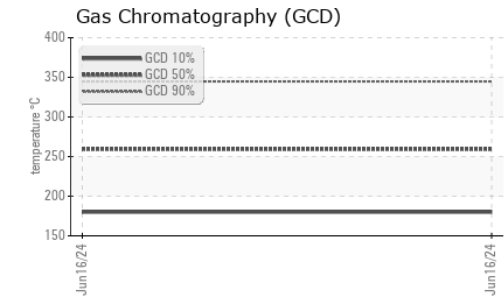
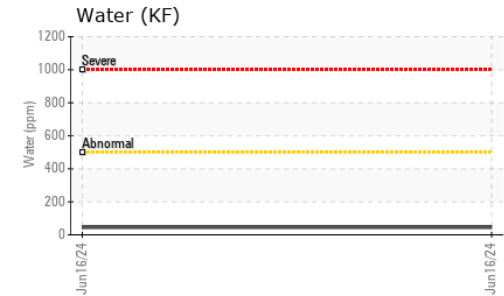
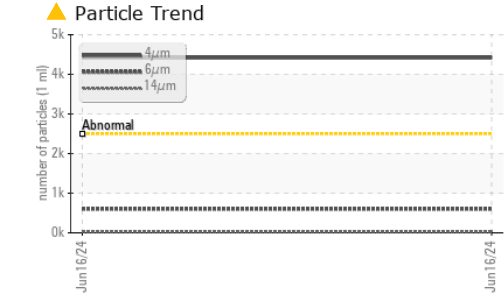
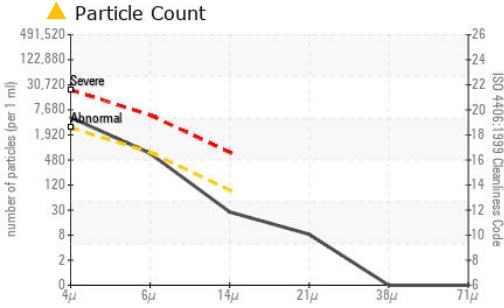
method	limit/base	current	history1	history2		
API Gravity		ASTM D7777	37.7	36	---	---
Cetane Index		ASTM D4737	<40.0	47	---	---

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	0	---	---
Water	%	ASTM D6304	<0.05	0.004	---	---
ppm Water	ppm	ASTM D6304	<500	45	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

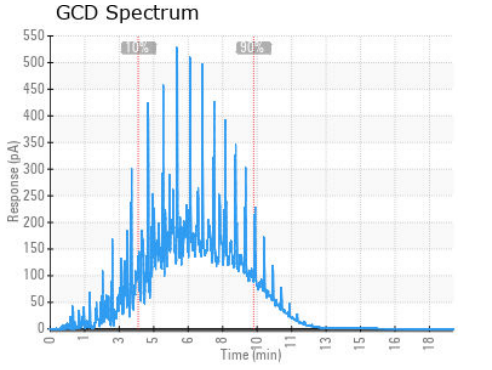
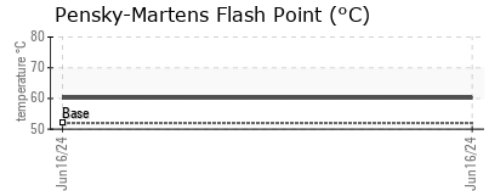
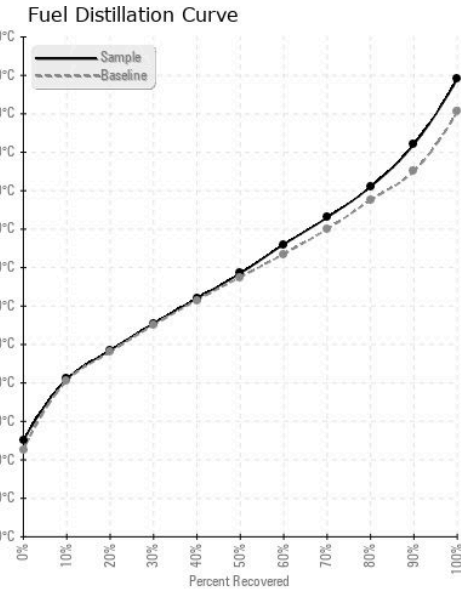


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 4416	---	---
Particles >6µm	ASTM D7647	>640	604	---	---
Particles >14µm	ASTM D7647	>80	24	---	---
Particles >21µm	ASTM D7647	>20	7	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/16/12	---	---

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				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06211171 **Received** : 14 Jun 2024
Lab Number : 06211171 **Tested** : 21 Jun 2024
Unique Number : 11084035 **Diagnosed** : 21 Jun 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

COUCH OIL COMPANY
 2907 HILLSBOROUGH RD
 DURHAM, NC
 US 27705
 Contact: JESSE BROWN
 jesse@couchoilcompany.com
 T: (919)285-5408
 F:

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)