



FUEL REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
HOSPITAL
Machine Id
ABOVE GROUND DUKE - JET A
Component
Tank Jet Fuel
Fluid
JET FUEL Type A (8000 GAL)

RECOMMENDATION

No corrective action is recommended at this time. All other laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC05687562	WCDF04785	WC05592926
Sample Date		Client Info		07 Nov 2022	22 Sep 2022	16 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

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

Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	<1
Lead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0

CONTAMINATION

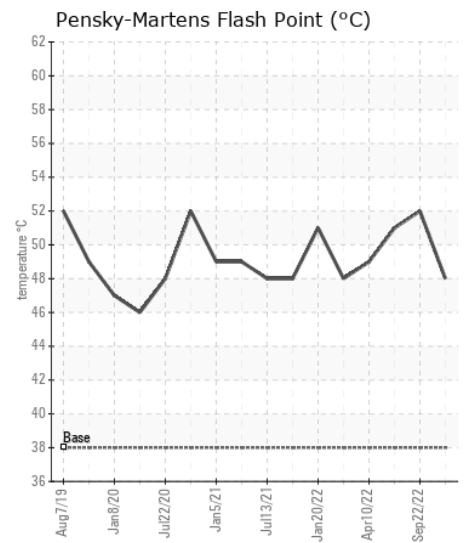
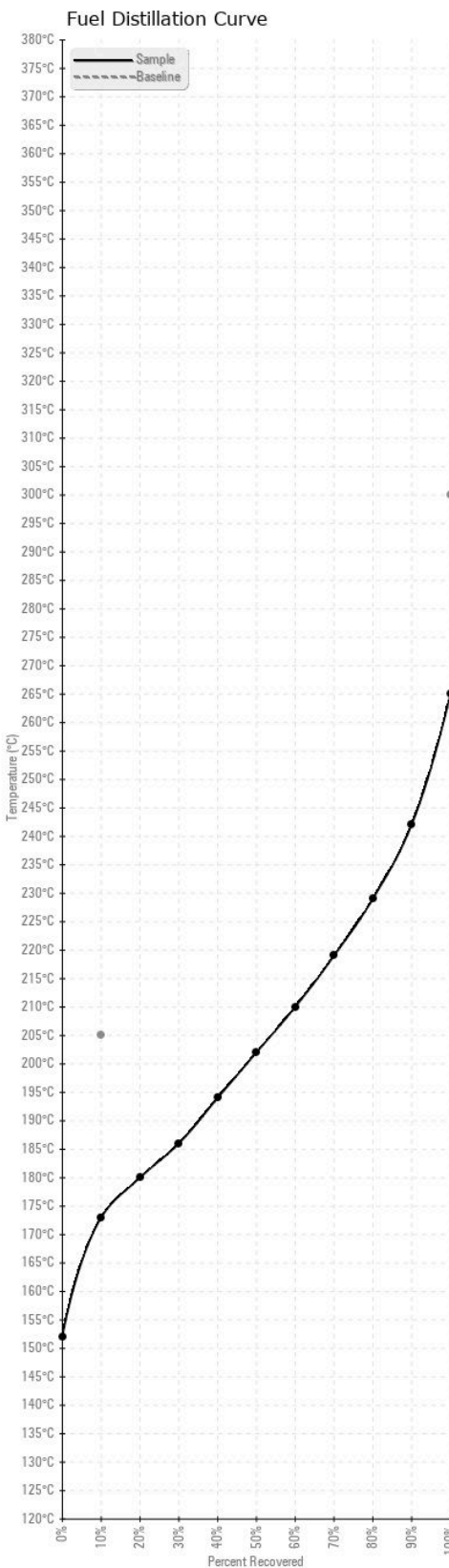
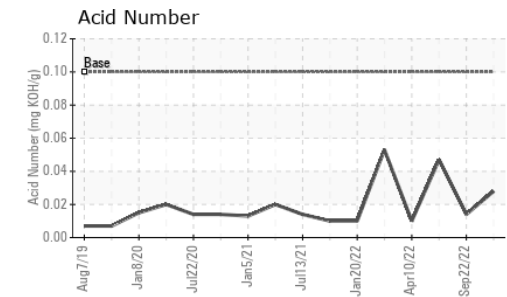
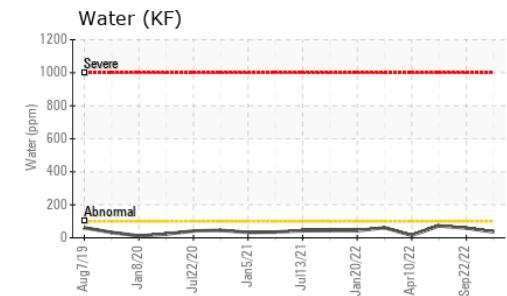
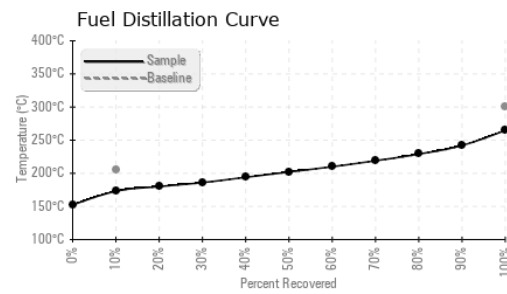
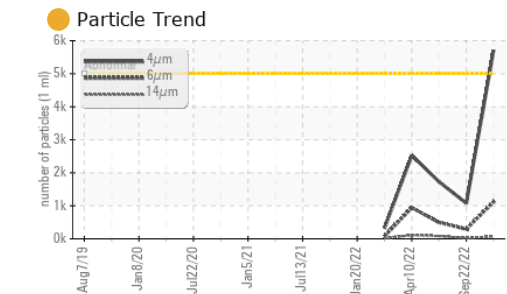
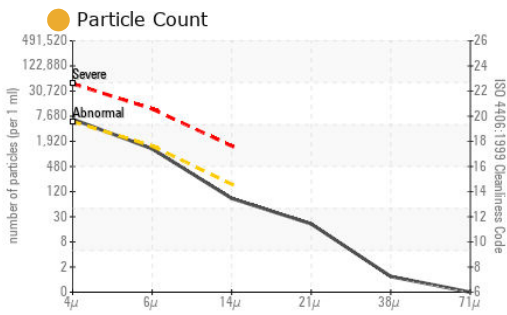
There is a moderate amount of silt (particulates < 6 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

Silicon	ppm	ASTM D5185m	<1.0	0	0	1
Sodium	ppm	ASTM D5185m	<0.1	0	0	0
Potassium	ppm	ASTM D5185m	<0.1	<1	0	<1
Water	%	ASTM D6304	<0.05	0.003	0.005	0.007
ppm Water	ppm	ASTM D6304	<500	35.4	59.1	71.8
Particles >4µm		ASTM D7647	>5000	5705	1078	1725
Particles >6µm		ASTM D7647	>1300	1117	292	495
Particles >14µm		ASTM D7647	>160	73	18	84
Particles >21µm		ASTM D7647	>40	18	3	27
Particles >38µm		ASTM D7647	>10	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/17/13	17/15/11	18/16/14
% Gasoline	%	*In-House	<0.50	3.3	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0
Calcium	ppm	ASTM D5185m	<0.1	0	0	0
Magnesium	ppm	ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	2	2	1
Zinc	ppm	ASTM D5185m	<0.1	0	0	0

FLUID CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation.

Specific Gravity		*ASTM D1298		0.799	0.803	0.802
Fuel Color	text	*Visual Screen		Red	Clear	Clear
ASTM Color	scalar	*ASTM D1500		L0.5	0	L0.5
Visc @ 40°C	cSt	ASTM D445	<8.0	1.31	1.27	1.42
Pensky-Martens Flash Point	°C	*PMCC Calculated	38	48	52	51
Sulfur	ppm	ASTM D5185m	<3000	435	486	381
Sulfur (UVF)	ppm	ASTM D5453		443	392	275
Initial Boiling Point	°C	ASTM D86		152	153	155
10% Distill Point	°C	ASTM D86	205	173	176	178
20% Distill Point	°C	ASTM D86		180	183	185
30% Distill Point	°C	ASTM D86		186	189	192
40% Distill Point	°C	ASTM D86		194	197	199
50% Distill Point	°C	ASTM D86		202	205	207
60% Distill Point	°C	ASTM D86		210	213	216
70% Distill Point	°C	ASTM D86		219	223	225
80% Distill Point	°C	ASTM D86		229	233	236
90% Distill Point	°C	ASTM D86		242	247	251
Final Boiling Point	°C	ASTM D86	300	265	272	277
Distillation Residue	%	ASTM D86	1.5	1.2	1.2	1.2
Distillation Loss	%	ASTM D86	1.5	1.1	0.7	0.7
API Gravity		ASTM D7777	44	45.6	44.7	44.9
Cetane Index		ASTM D4737	<40.0	47.2	47.8	48.2



Certificate L2367

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

Sample No. : WC05687562

Lab Number : 05687562

Unique Number : 10207134

Test Package : DF-2 (Additional Tests: API, CC Flash, Cetane, Color-ASTM, Fuel, GC-PercFuel, ICP, KF, KV4C, P, S, T, W, Y, Z)

Received : 07 Nov 2022

Tested : 14 Nov 2022

Diagnosed : 14 Nov 2022 - Doug Bogart

COUCH OIL COMPANY

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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)