

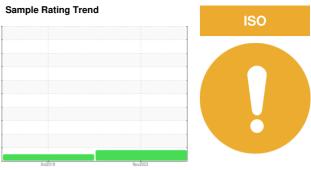
FUEL REPORT

DUKE HOSP ALBERT EYE 4000 GAL

Component

Diesel Fuel

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



Recommendation

All other laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

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

Contaminants

There is a moderate amount of silt (particulates < 14 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.

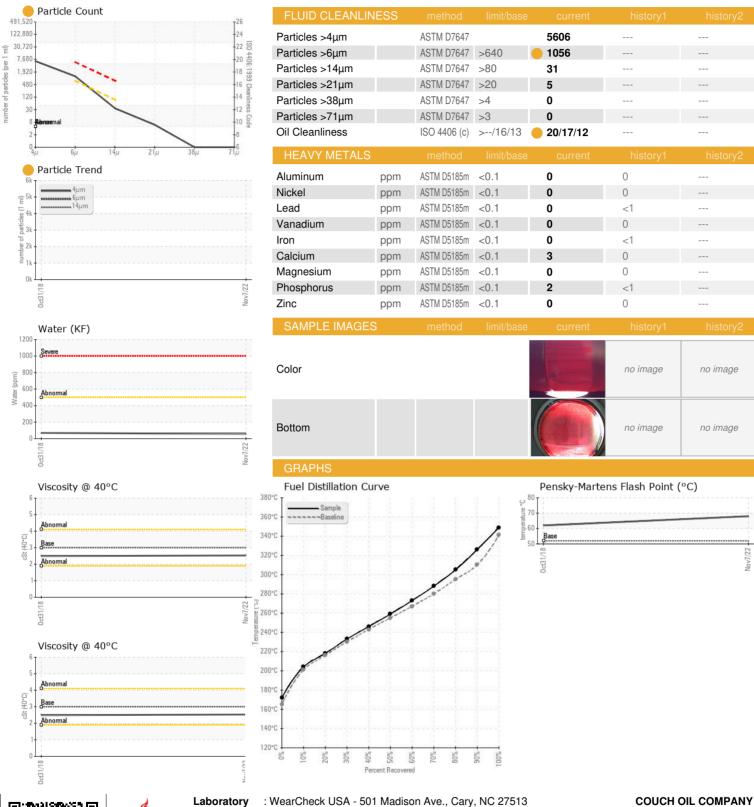
Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

R) (GAL)			0æ2018	Nov2022		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC05687544	WC04583515	
Sample Date		Client Info		07 Nov 2022	31 Oct 2018	
Machine Age	hrs	Client Info		0	0	
Sample Status				ATTENTION	NORMAL	
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	0.842	0.843	
Fuel Color	text	*Visual Screen	Yllow	Red	Red	
ASTM Color	scalar	*ASTM D1500		L4.0	L5.5	
Visc @ 40°C	cSt	ASTM D445	3.0	2.53	2.49	
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	68	62	
SULFUR CONTE	VΤ	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	7	
Sulfur (UVF)	ppm	ASTM D5453		13	13	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	172	166	
5% Distillation Point	°C	ASTM D86		195	191	
10% Distill Point	°C	ASTM D86	201	204	202	
15% Distillation Point	°C	ASTM D86		211	209	
20% Distill Point	°C	ASTM D86	216	218	218	
30% Distill Point	°C	ASTM D86	230	233	231	
40% Distill Point	°C	ASTM D86	243	246	245	
50% Distill Point	°C	ASTM D86	255	259	259	
60% Distill Point	°C	ASTM D86	267	273	273	
70% Distill Point	°C	ASTM D86	280	288	288	
80% Distill Point	°C	ASTM D86	295	305	305	
85% Distillation Point	°C	ASTM D86		315	314	
90% Distill Point	°C	ASTM D86	310	326	326	
95% Distillation Point	°C	ASTM D86		343	343	
Final Boiling Point	°C	ASTM D86	341	349	352	
Distillation Residue	%	ASTM D86	3.0	1.4	1.4	
Distillation Loss	%	ASTM D86	3.0	0.9	0.8	
IGNITION QUALIT	Υ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36.6	36.4	
Cetane Index		ASTM D4737	<40.0	47.9	47.2	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	<1	
Sodium	ppm	ASTM D5185m	< 0.1	0	0	
Potassium	ppm	ASTM D5185m	<0.1	0	0	
Water	%	ASTM D6304	< 0.05	0.005	0.007	
ppm Water	ppm	ASTM D6304	<500	56.6	70	
% Gasoline	%	*In-House	< 0.50	0.0	0.0	
% Biodiesel	%	*In-House	<20.0	0.0	0.7	



FUEL REPORT





Laboratory Sample No.

: WC05687544 Lab Number : 05687544

Unique Number: 10207116

Received **Tested**

: 07 Nov 2022 : 11 Nov 2022 Diagnosed

: 17 Nov 2022 - Doug Bogart

2907 HILLSBOROUGH RD DURHAM, NC US 27705

Contact: JESSE BROWN jesse@couchoilcompany.com T: (919)285-5408

Test Package: DF-2 (Additional Tests: 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: COUDUR [WUSCAR] 05687544 (Generated: 03/11/2024 17:56:09) Rev: 1