

Area **The Outer Banks Hospital [13211]** [The Outer Banks Hospital] MAIN

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (10000 GAL)

DIAGNOSIS

Recommendation

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

Corrosion

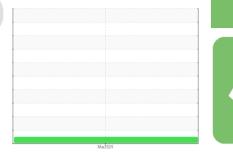
All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates indicated in the system are acceptable.

Fuel Condition

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



Sample Rating Trend

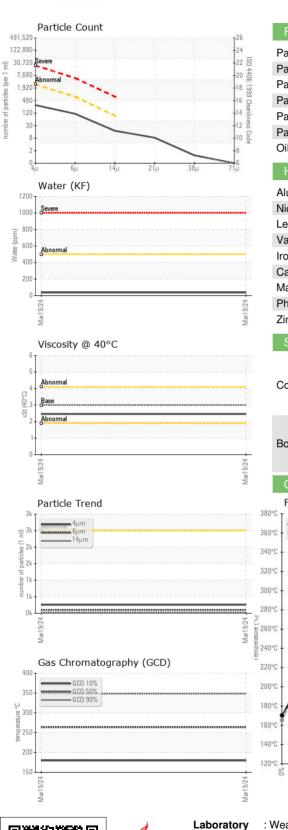


NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06139099		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	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		L4.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.6		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	3		
Sulfur (UVF)	ppm	ASTM D5453		11		
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		210		
20% Distill Point	°C	ASTM D86	216	218		
30% Distill Point	°C	ASTM D86	230	233		
40% Distill Point	°C	ASTM D86	243	247		
50% Distill Point	°C	ASTM D86	255	261		
60% Distill Point	°C	ASTM D86	267	275		
70% Distill Point	°C	ASTM D86	280	290		
80% Distill Point	°C	ASTM D86	295	305		
85% Distillation Point	°C	ASTM D86		316		
90% Distill Point	°C	ASTM D86	310	327		
95% Distillation Point	°C	ASTM D86		346		
Final Boiling Point	°C	ASTM D86	341	362		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36		
Cetane Index		ASTM D4737	<40.0	48		
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	0.003		
ppm Water	ppm	ASTM D6304	<500	36		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT



т26	FLUID CLEANLIN	ESS	method	limit/base	e current	history1	history2
-24	Particles >4µm		ASTM D7647	>2500	256		
22 8	Particles >6µm		ASTM D7647	>640	98		
18 18	Particles >14µm		ASTM D7647	>80	15		
0	Particles >21µm		ASTM D7647		7		
-14 m	Particles >38μm			>4	1		
12 %	Particles >71µm		ASTM D7647	>3	0		
T10 0	Oil Cleanliness		ISO 4406 (c)		15/14/11		
71µ	HEAVY METALS		method	limit/base	e 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		
1	Calcium	ppm	ASTM D5185m	<0.1	0		
	Magnesium	ppm	ASTM D5185m	<0.1	0		
3/24	Phosphorus	ppm	ASTM D5185m	<0.1	0		
0,	Zinc	ppm		<0.1	0		
	SAMPLE IMAGES	\$	method	limit/base	e current	history1	history2
	Color					no image	no image
Marl 9/24	Bottom					no image	no image
Mar	GRAPHS						
200-0	Fuel Distillation Cu	rve			Pensky-Martens	Flash Point	(°C)
380°C	Sample			ې و	/0		
360°C	Baseline			eraturi	70 60 50 Base		
340°C	•••••••••••••••••••••••••••••••••••••••			/ 9 temb	40		
320°C				1)/24 -
1				*	Mar19/24		Mar19/24
300°C			1.00		GCD Spectrum		_
280°C		1		7			
Mar19/24 Seature (14	. <mark>.</mark>	1		6	300-		
260°C Vieture Wature 240°C		· · · · · · · · · · · · · · · · · · ·					
. <u>®</u> 220°C					500-		
				Response (pA)	100 -		
200°C	1			uods	800 -		
180°C	1						
160°C	·			2	200-		
140°C				1	00-		
1002 A							
120°C	0% + 10% + 30% +	50% +	70% -	90% 100%	0 5 6 8 8 10	Time (min)	21 23 25 26 26 28 28
Mar19/24	han 62 64 44	cent Recovered	7	10		theory were COP	
	/earCheck USA - 501				PETROL		
mple No. : W	/earCheck USA - 501 /C06139099 6139099	Madiso Recei Teste	ved : 04	, NC 27513 Apr 2024 Apr 2024	PETROL	21	ERY SERVICES



Diagnosed Unique Number : 10963907 : 15 Apr 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Fuel, Screen) Certificate 12367 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)

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Contact/Location: AJAY EL - PETSUM

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