

# Area HILTON HEAD PSD [4984] [HILTON HEAD PSD] MAIN

**Diesel Fuel** 

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

# DIAGNOSIS

### Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.

#### Corrosion

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

# Contaminants

There is a moderate amount of particulates present in the fuel. Free water present. Light concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

## **Fuel Condition**

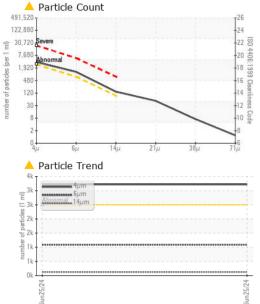
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

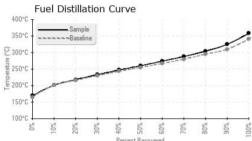


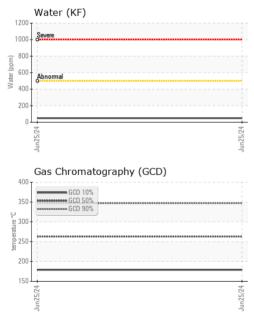
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0957808		
Sample Date		Client Info		25 Jun 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.3		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	biotoput	history
					history1	history2
Initial Boiling Point	°C	ASTM D86	165	169		
5% Distillation Point	°C	ASTM D86	001	191		
10% Distill Point	°C	ASTM D86	201	201		
15% Distillation Point	°C	ASTM D86	010	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	260		
60% Distill Point	°C	ASTM D86	267	274		
70% Distill Point	°C	ASTM D86	280	288		
80% Distill Point	°C	ASTM D86	295	304		
85% Distillation Point		ASTM D86		315		
90% Distill Point	°C	ASTM D86	310	325		
95% Distillation Point		ASTM D86		343		
Final Boiling Point	°C	ASTM D86	341	358		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
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	0.004		
ppm Water	ppm	ASTM D6304	<500	49		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



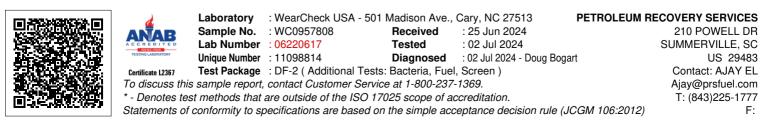
# **FUEL REPORT**







FLUID CLEANLIN	ESS	method	limit/base		current	history1	history2
Particles >4µm		ASTM D7647	>2500		3218		
Particles >6µm		ASTM D7647	>640		1090		
Particles >14µm		ASTM D7647	>80		123		
Particles >21µm		ASTM D7647	>20		45		
Particles >38µm		ASTM D7647	>4		6		
Particles >71µm		ASTM D7647	>3		1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13		19/17/14		
MICROBIAL		method	limit/base		current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000		0		
Yeast	CFU/ml	WC-Method	>=100000		0		
Mold	Colonies	WC-Method	MODER				
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		<1		
Zinc	ppm	ASTM D5185m	<0.1		0		
SAMPLE IMAGES	6	method	limit/base		current	history1	history2
Color						no image	no image
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Contact/Location: AJAY EL - PETSUM

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