

## FUEL REPORT

Sample Number

hrs

text

Sample Date

Machine Age

Sample Status

Specific Gravity

Fuel Color

### DETROIT MARINE DETROIT PORT/STARBOARD Component

**Diesel Fuel** Fluic

{not provided} (--- GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you follow the water drain-off procedure for this component. All other laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

#### Corrosion

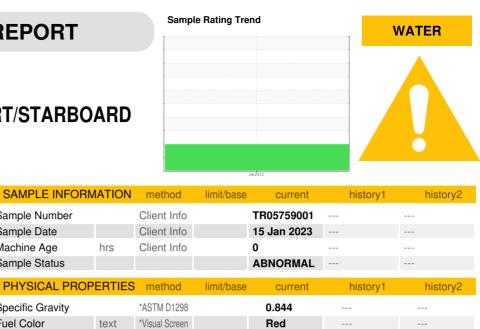
All metal levels are normal indicating no corrosion in the system.

#### Contaminants

Free water present. Moderate 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**

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



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ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445		2.48		
Pensky-Martens Flash Point	°C	*PMCC Calculated		54		
SULFUR CONTEI	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		12		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		148		
5% Distillation Point	°C	ASTM D86		182		
10% Distill Point	°C	ASTM D86		194		
15% Distillation Point	°C	ASTM D86		205		
20% Distill Point	°C	ASTM D86		215		
30% Distill Point	°C	ASTM D86		232		
40% Distill Point	°C	ASTM D86		248		
50% Distill Point	°C	ASTM D86		264		
60% Distill Point	°C	ASTM D86		281		
70% Distill Point	°C	ASTM D86		297		
80% Distill Point	°C	ASTM D86		312		
85% Distillation Point	°C	ASTM D86		321		
90% Distill Point	°C	ASTM D86		331		
95% Distillation Point	°C	ASTM D86		345		
Final Boiling Point	°C	ASTM D86		353		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.6		
IGNITION OUAL I	ΓY	method	limit/base	current	history1	history2

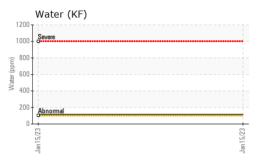
IGNITION QUALI	11	method	iiiiii/base	current	TIISTOLA	nistory2
API Gravity		ASTM D7777		36.2		
Cetane Index		ASTM D4737	<40.0	47.4		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.010		
ppm Water	ppm	ASTM D6304	<500	108.9		
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			

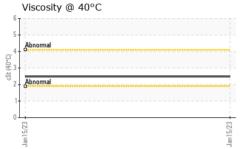
Report Id: BRIPEM [WUSCAR] 05759001 (Generated: 02/08/2024 11:59:09) Rev: 1

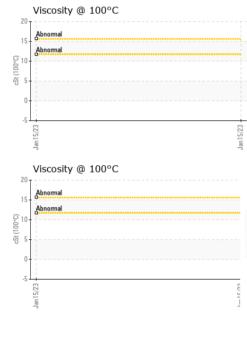
Contact/Location: BRIAN LYDON - BRIPEM



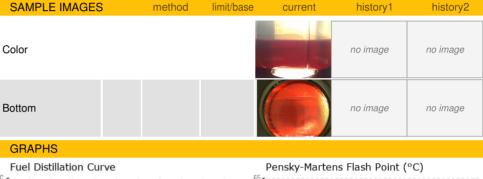
# **FUEL REPORT**

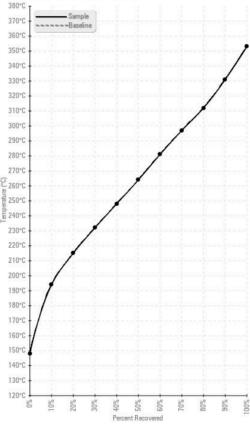






HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	0		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	<1		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	<1		
Zinc	ppm	ASTM D5185m	<0.1	0		







## **BRIAN LYDON**

Sample No. : TR05759001 Received :03 Feb 2023 PO BOX 563 Lab Number : 05759001 Tested : 13 Feb 2023 PEMBROKE, MA Unique Number : 10323608 Diagnosed : 13 Feb 2023 - Doug Bogart US 02359 Test Package : DF-2 (Additional Tests: Bacteria, KV100, Screen) Contact: BRIAN LYDON Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

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

Report Id: BRIPEM [WUSCAR] 05759001 (Generated: 02/08/2024 11:59:10) Rev: 1

Laboratory

Contact/Location: BRIAN LYDON - BRIPEM