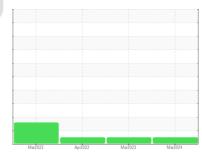


### **FUEL REPORT**

#### Sample Rating Trend





NORMAL

# HRMC DT 3

Component Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (500 GAL)

#### DIAGNOSIS

#### Recommendation

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

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

#### **Fuel Condition**

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WCDF4530	WCDF4374	WCDF04618
Sample Date		Client Info		11 Mar 2024	29 Mar 2023	26 Apr 2022
Machine Age	mls	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839		0.833	
Fuel Color	text	*Visual Screen	Yllow	Red	Red	
ASTM Color	scalar	*ASTM D1500		L4.5	L5.0	L5.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.57	2.61	2.63
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	62.2	61	
Cloud Point	°C	ASTM D5771		-11	-11	
SULFUR CONTEN	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	6	0	2
Sulfur (UVF)	ppm	ASTM D5453		8	10	10
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	173	169	
5% Distillation Point	°C	ASTM D86		196	193	
10% Distill Point	°C	ASTM D86	201	207	203	
15% Distillation Point	°C	ASTM D86		215	212	
20% Distill Point	°C	ASTM D86	216	223	220	
30% Distill Point	°C	ASTM D86	230	239	236	
40% Distill Point	°C	ASTM D86	243	252	250	
50% Distill Point	°C	ASTM D86	255	265	264	
60% Distill Point	°C	ASTM D86	267	278	277	
70% Distill Point	°C	ASTM D86	280	291	291	
80% Distill Point	°C	ASTM D86	295	306	307	
85% Distillation Point	°C	ASTM D86		316	316	
90% Distill Point	°C	ASTM D86	310	326	327	
95% Distillation Point		ASTM D86	0.44	342	342	
Final Boiling Point Distillation Residue	°C %	ASTM D86	341	355	350 1.4	
Distillation Loss	%	ASTM D86 ASTM D86	3.0 3.0		0.8	
IGNITION QUALIT	ΙΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	38	38.4	
Cetane Index		ASTM D4737	<40.0	52	52.0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	<1	0	0
Potassium	ppm	ASTM D5185m	<0.1	<1	<1	0
Water	%	ASTM D6304	< 0.05	0.001	0.003	0.003
ppm Water	ppm	ASTM D6304	<500	9	35.7	25.8
% Gasoline	%	*In-House	< 0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0



Water (KF)

Apr26/22

nr26/22

Viscosity @ 40°C

Mar29/23

Mar29/23

Mar7/22

Ab

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Mar7/22

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(40°C) Bas

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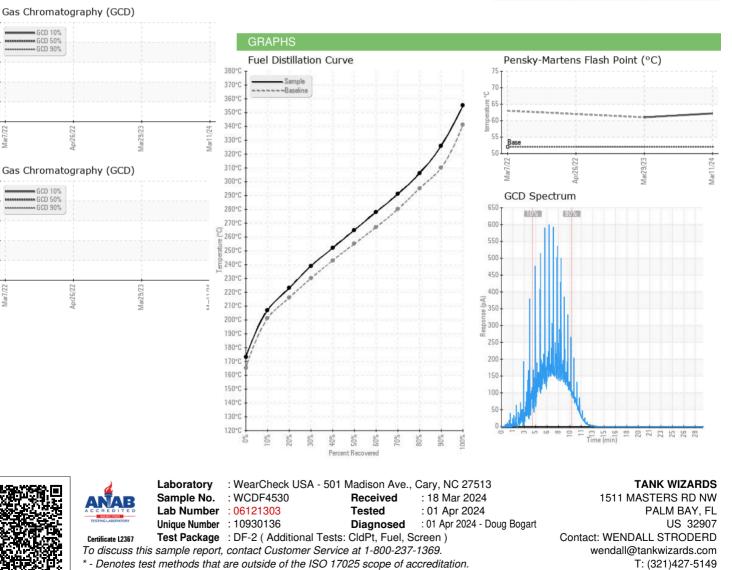
## **FUEL REPORT**

HEAVY METALS		method	limit/base	current	history1	his
Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	0
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
Calcium	ppm	ASTM D5185m	<0.1	<1	0	0
Magnesium	ppm	ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	5	0
Zinc	ppm	ASTM D5185m	<0.1	0	0	0
SAMPLE IMAGES		method	limit/base	current	history1	his



Mar11/24





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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