

# FUEL REPORT

## Area OWENSBORO HEALTH OFFSITE TMOB MMCC [17632] [OWENSBORO HEALTH OFFSITE TMOB MMCC] MMCC

**Diesel Fuel** 

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (660 GAL)

### DIAGNOSIS

#### A Recommendation

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

#### Corrosion

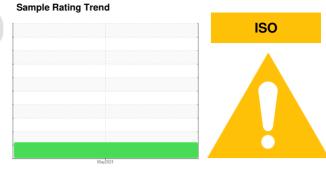
All metal levels are normal indicating no corrosion in the system.

### Contaminants

There is a high amount of particulates present in the fuel. 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.

#### **Fuel Condition**

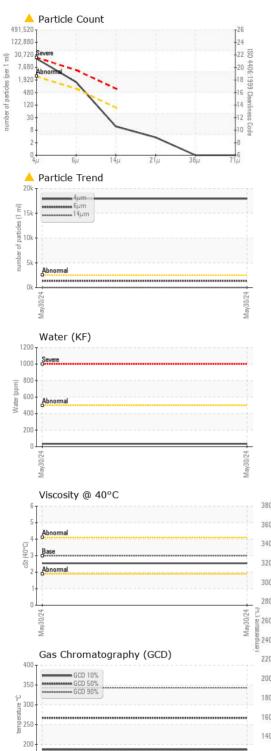
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06206047		
Sample Date		Client Info		30 May 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		
Visc @ 40°C	cSt	ASTM D445	3.0	2.54		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.4		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		11		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	172		
5% Distillation Point	°C	ASTM D86		198		
10% Distill Point	°C	ASTM D86	201	208		
15% Distillation Point	°C	ASTM D86		215		
20% Distill Point	°C	ASTM D86	216	223		
30% Distill Point	°C	ASTM D86	230	237		
40% Distill Point	°C	ASTM D86	243	250		
50% Distill Point	°C	ASTM D86	255	263		
60% Distill Point	°C	ASTM D86	267	276		
70% Distill Point	°C	ASTM D86	280	289		
80% Distill Point	°C	ASTM D86	295	303		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86	310	322		
95% Distillation Point	°C	ASTM D86		337		
Final Boiling Point	°C	ASTM D86	341	351		
IGNITION QUALIT	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	<1		
Water	%	ASTM D6304	< 0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	34		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



# **FUEL REPORT**



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1 <sup>26</sup> 24		1200	method	limit/bas		history1	history
	Particles >4µm			>2500	▲ 17937		
-20 4406	Particles >6µm		ASTM D7647	>640	<b>1</b> 345		
-18 1999	Particles >14µm		ASTM D7647	>80	10		
16 Cean	Particles >21µm		ASTM D7647		3		
-22 [S0 -20 06:1999 Cleanliness Code -14 liness Code	Particles >38µm		ASTM D7647	>4	0		
-10 Ge	Particles >71µm		ASTM D7647		0		
-8	Oil Cleanliness		ISO 4406 (c)	>18/16/13			
71μ	HEAVY METALS		method	limit/bas	e current	history1	history
	Aluminum	ppm	ASTM D5185m	<0.1	0		
	Nickel	ppm	ASTM D5185m	<0.1	<1		
	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	1		
0/24	Phosphorus	ppm	ASTM D5185m	<0.1	0		
May30/24	Zinc	ppm	ASTM D5185m	<0.1	0		
	SAMPLE IMAGES	3	method	limit/bas	e current	history1	history
	Color					no image	no image
0/24	Bottom					no image	no image
May30/24	GRAPHS						
	Fuel Distillation Cu	irve			Pensky-Marter	s Flash Point (	(°C)
38	0°C Sample			ç	S <sup>80</sup> T ;		
36	0°CBaseline				70-		
34				12	Base		
27	0°C -			11	50 LT		
			1	*	May30/24		
	- 0°0		1.00		≥ GCD Spectrum	1	
28	0°C -	1				90% 1	
20	0°C 0°C 0°C 0°C			(ssponse (pA)	550		
16	0°C				200 150 100 50		
May30/24 -	0% 10% 20% 30%	rcent Recovered		90%	0 ° ° ° 0	∞ 0 ⊑ ∽ Time (min)	15 18
ble No. : Number :	WearCheck USA - 50 WC06206047 06206047 11073508	1 Madiso Recei Teste Diagn	ived : 10 ed : 18	) Jun 2024 3 Jun 2024			ERY SERVIC 10 POWELL MERVILLE, US 294

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)

Certificate L2367

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Contact/Location: AJAY EL - PETSUM

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