

### **FUEL REPORT**

# Area [132365] WINDSOR FIRE DEPARTME

Component **Diesel Fuel** Fluic

### No.2 DIESEL FUEL (ULTRALOW SULPHUR)

#### DIAGNOSIS

#### A Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. Resample at the next service interval to monitor.

#### Corrosion

{not applicable}

#### Contaminants

There is a light amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

#### **Fuel Condition**

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

ENT						
) ( GAL)				Oct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0020221		
Sample Date		Client Info		22 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.840		
Fuel Color	text	Visual Screen*	Yllow	Orang		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.6		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	57.3		
SULFUR CONTEN	١T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	16		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	168		
5% Distillation Point	°C	ASTM D2887*	100	189		
10% Distill Point	°C	ASTM D2887*	201	201		
15% Distillation Point	°C	ASTM D2887*		209		
20% Distill Point	°C	ASTM D2887*	216	217		
30% Distill Point	°C	ASTM D2887*	230	232		
40% Distill Point	°C	ASTM D2887*	243	245		
50% Distill Point	°C	ASTM D2887*	255	257		
60% Distill Point	°C	ASTM D2887*	267	270		
70% Distill Point	°C	ASTM D2887*	280	282		
80% Distill Point	°C	ASTM D2887*	295	296		
85% Distillation Point	°C	ASTM D2887*		307		
90% Distill Point	°C	ASTM D2887*	310	318		
95% Distillation Point	°C	ASTM D2887*	0.44	336		
Final Boiling Point	°C	ASTM D2887*	341	360		
IGNITION QUALIT	Ϋ́	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36		
Cetane Index		ASTM D4737*	<40.0	47		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	<1		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	<0.05	0.007		
ppm Water	ppm	ASTM D6304*	<500	74.9		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>A</b> 3685		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	23		
Particles >21µm		ASTM D7647	>20	4		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>		

Sample Rating Trend

ISO

Contact/Location: Tanya Brown - CUMDAR



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