

## FUEL REPORT

SAMPLE INFORMATION

Sample Number

Sample Date

### Area [409165] 190783 (S/N 74166108) Component

**Diesel Fuel** Fluic

No.1 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

#### DIAGNOSIS

#### Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

#### Corrosion

{not applicable}

#### Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

#### **Fuel Condition**

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. All laboratory tests indicate that this sample meets specifications for No.1 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type A).



Machine Age	kms	Client Info		95000		
Sample Status				ABNORMAL		
PHYSICAL PROP	PERTIES	6 method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.825	0.826		
Fuel Color	text	Visual Screen*	Clear	Yllow		
Visc @ 40°C	cSt	ASTM D7279(m)	1.8	1.9		
Pensky-Martens Flash Point	°C	ASTM D7215*	38	49		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	7		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	159	153		
5% Distillation Point	°C	ASTM D2887*		172		
10% Distill Point	°C	ASTM D2887*	184	179		
15% Distillation Point	°C	ASTM D2887*		186		
20% Distill Point	°C	ASTM D2887*	196	192		
30% Distill Point	°C	ASTM D2887*	205	205		
40% Distill Point	°C	ASTM D2887*	216	219		
50% Distill Point	°C	ASTM D2887*	227	233		
60% Distill Point	°C	ASTM D2887*	238	248		
70% Distill Point	°C	ASTM D2887*	251	262		
80% Distill Point	°C	ASTM D2887*	264	279		
85% Distillation Point	°C	ASTM D2887*		291		
90% Distill Point	°C	ASTM D2887*	288	302		
95% Distillation Point	°C	ASTM D2887*		320		
Final Boiling Point	°C	ASTM D2887*	309	335		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	40.1	39		
Cetane Index		ASTM D4737*	<40.0	46		
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	<1		
Water	%	ASTM D6304*	< 0.05	0.007		
ppm Water	ppm	ASTM D6304*	<500	79		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>^</b> 7394		

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>~</b> 7394		
Particles >6µm	ASTM D7647	>640	<u> </u>		
Particles >14µm	ASTM D7647	>80	<b>A</b> 304		
Particles >21µm	ASTM D7647	>20	<u> </u>		
Particles >38µm	ASTM D7647	>4	2		
Particles >71µm	ASTM D7647	>3	0		
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b> 20/19/15</b>		

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🔺 Particle Count

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method

limit/base

current

history1

history2

**HEAVY METALS** 



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