

# **FUEL REPORT**

# Sample Rating Trend



X

#### Area [1879916] Machine Id **19-GRES-01-005-F** Component

**Diesel Fuel** 

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

## DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you filter this fluid before use. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

# Corrosion

{not applicable}

# Contaminants

There is a high 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). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

R) ( GAL)			Feb2023	Dec2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0786856	WC0786855	
Sample Date		Client Info		13 Dec 2023	22 Feb 2023	
Machine Age	hrs	Client Info		0	0	
Sample Status				SEVERE	SEVERE	
			11 11 11			
PHYSICAL PROP	ERTIES		limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.817	0.815	
Fuel Color	text	Visual Screen*	Yllow	Red	Pink	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.4	2.7	
Pensky-Martens Flash Point	°C	ASTM D7215*	52	66	66.3	
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	8	7	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	177	177	
5% Distillation Point	°C	ASTM D2887*		190	192	
10% Distill Point	°C	ASTM D2887*	201	198	200	
15% Distillation Point	°C	ASTM D2887*		204	208	
20% Distill Point	°C	ASTM D2887*	216	211	216	
30% Distill Point	°C	ASTM D2887*	230	226	232	
40% Distill Point	°C	ASTM D2887*	243	241	247	
50% Distill Point	°C	ASTM D2887*	255	256	263	
60% Distill Point	°C	ASTM D2887*	267	271	279	
70% Distill Point	°C	ASTM D2887*	280	285	295	
80% Distill Point	°C	ASTM D2887*	295	302	315	
85% Distillation Point	°C	ASTM D2887*		314	327	
90% Distill Point	°C	ASTM D2887*	310	325	340	
95% Distillation Point	°C	ASTM D2887*		345	357	
Final Boiling Point	°C	ASTM D2887*	341	359	367	
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	41	42	
Cetane Index		ASTM D4737*	<40.0	56	59	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0	<1	
Sodium	ppm	ASTM D5185(m)	<0.1	<1	0	
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	
Water	%	ASTM D6304*	<0.05	0.002	0.003	
ppm Water	ppm	ASTM D6304*	<500	19	32.4	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>A</b> 19225	66822	
Particles >6µm		ASTM D7647	>640	6337	47059	
Particles >14µm		ASTM D7647	>80	<b>4</b> 246	9556	
Particles >21µm		ASTM D7647	>20	27	2679	
Particles >38µm		ASTM D7647	>4	1	82	
Particles >71µm		ASTM D7647	>3	0	4	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>e</b> 21/20/15	23/23/20	

Contact/Location: Pierre Beauchamp - PIELAP



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