

## FUEL REPORT

Sample Rating Trend



ISO

X

### Area [410202] **PQ1405** 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.

				Jan2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0021616		
Sample Date		Client Info		08 Jan 2024		
Machine Age	hrs	Client Info		4		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.833		
Fuel Color	text	Visual Screen*	Yllow	Orang		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	48.4		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	13		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	155		
5% Distillation Point	°C	ASTM D2887*		176		
10% Distill Point	°C	ASTM D2887*	201	185		
15% Distillation Point	°C	ASTM D2887*		194		
20% Distill Point	°C	ASTM D2887*	216	202		
30% Distill Point	°C	ASTM D2887*	230	218		
40% Distill Point	°C	ASTM D2887*	243	233		
50% Distill Point	°C	ASTM D2887*	255	248		
60% Distill Point	°C	ASTM D2887*	267	264		
70% Distill Point	°C	ASTM D2887*	280	280		
80% Distill Point	°C	ASTM D2887*	295	298		
85% Distillation Point	°C	ASTM D2887*		310		
90% Distill Point	°C	ASTM D2887*	310	322		
95% Distillation Point	°C	ASTM D2887*		342		
Final Boiling Point	°C	ASTM D2887*	341	375		
IGNITION QUALIT	ſΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	38		
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	0.016		
ppm Water	ppm	ASTM D6304*	<500	162		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	930564		
Particles >6µm		ASTM D7647	>640	6878		
Particles >14µm		ASTM D7647	>80	38		
Particles >21µm		ASTM D7647	>20	2		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>e</b> 22/20/12		



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