

FUEL REPORT

Sample Rating Trend





TANK 2 EAST

Component

Diesel Fuel

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

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation.

Corrosion

Iron ppm levels are severe. The high metal levels indicate corrosion in the system.

Contaminants

There is a high amount of particulates (2 to 100 microns in size) present in the fuel. There is a moderate concentration of water present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

The fuel is no longer serviceable due to the presence of contaminants.

R) (GAL)			,	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0838832		
Sample Date		Client Info		18 Aug 2023		
Machine Age	hrs	Client Info		0		
Sample Status	1110			SEVERE		
·				GEVERLE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.827		
Fuel Color	text	Visual Screen*	Yllow	Red		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	50.3		
SULFUR CONTE	NT	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*	165	159		
5% Distillation Point	°C	ASTM D2887*		179		
10% Distill Point	°C	ASTM D2887*	201	189		
15% Distillation Point	°C	ASTM D2887*		197		
20% Distill Point	°C	ASTM D2887*	216	204		
30% Distill Point	°C	ASTM D2887*	230	219		
40% Distill Point	°C	ASTM D2887*	243	233		
50% Distill Point	°C	ASTM D2887*	255	248		
60% Distill Point	°C	ASTM D2887*	267	262		
70% Distill Point	°C	ASTM D2887*	280	277		
80% Distill Point	°C	ASTM D2887*	295	293		
85% Distillation Point	°C	ASTM D2887*		304		
90% Distill Point	°C	ASTM D2887*	310	316		
95% Distillation Point	°C	ASTM D2887*		334		
Final Boiling Point	°C	ASTM D2887*	341	352		
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	39		
Cetane Index		ASTM D4737*	<40.0	50		
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	0.011		
ppm Water	ppm	ASTM D6304*	<500	110		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	169670		
Particles >6µm		ASTM D7647	>640	136652		
Particles >14µm		ASTM D7647	>80	37356		
Particles >21µm		ASTM D7647	>20	9180		
Particles >38µm		ASTM D7647	>4	6 1		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	25/24/22		



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