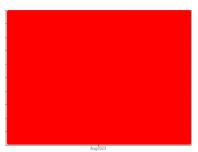


FUEL REPORT

Sample Rating Trend







TANK 1 WEST

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. PQ levels are abnormal. 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. Test for glycol is positive. Excessive free water present. Moderate concentration of visible dirt/debris 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0838835		
Sample Date		Client Info		18 Aug 2023		
Machine Age	hrs	Client Info		0		
Sample Status				SEVERE		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.829		
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	51.3		
SULFUR CONTE	NΤ	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	6		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	159		
5% Distillation Point	°C	ASTM D2887*		180		
10% Distill Point	°C	ASTM D2887*	201	190		
15% Distillation Point	°C	ASTM D2887*		198		
20% Distill Point	°C	ASTM D2887*	216	205		
30% Distill Point	°C	ASTM D2887*	230	221		
40% Distill Point	°C	ASTM D2887*	243	235		
50% Distill Point	°C	ASTM D2887*	255	249		
60% Distill Point	°C	ASTM D2887*	267	264		
70% Distill Point	°C	ASTM D2887*	280	279		
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*		337		
Final Boiling Point	°C	ASTM D2887*	341	354		
IGNITION QUALIT	ГҮ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	39		
Cetane Index		ASTM D4737*	<40.0	49		
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	0.022		
ppm Water	ppm	ASTM D6304*	<500	220		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	139028		

ASTM D7647 >640

ASTM D7647 >80

ASTM D7647 >20

ASTM D7647 >4

ASTM D7647 >3

Particles >6µm Particles >14um

Particles >21µm

Particles >38um

Particles >71µm

Oil Cleanliness

130210

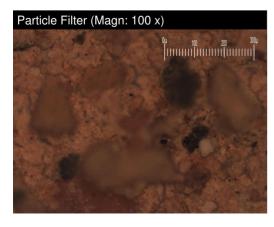
83060

48881

1013

4

ISO 4406 (c) >18/16/13 **24/24/24**





FUEL REPORT

