

FUEL REPORT

SAMPLE INFORMATION

hrs

PHYSICAL PROPERTIES method

Sample Number

Sample Date

Machine Age

Sample Status

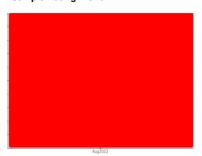
Oil Cleanliness

Sample Rating Trend

Client Info

Client Info

Client Info



0

WC0838837

18 Aug 2023

SEVERE



history1

TANK 3 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

Aluminum and iron ppm levels are abnormal. The high metal levels indicate corrosion in the system.

Contaminants

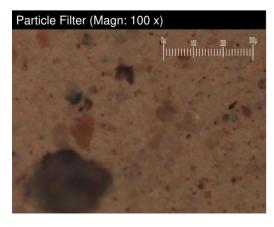
There is a high amount of particulates (2 to 100 microns in size) present in the fuel. a light concentration of was filtered from the sample. Excessive free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

Fuel Condition

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

Specific Gravity		ASTM D1298*	0.839	0.823		
Fuel Color	text	Visual Screen*	Yllow	Red		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.1		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	51.8		
SULFUR CONTE	NT	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	160		
5% Distillation Point	°C	ASTM D2887*		181		
10% Distill Point	°C	ASTM D2887*	201	191		
15% Distillation Point	°C	ASTM D2887*		198		
20% Distill Point	°C	ASTM D2887*	216	206		
30% Distill Point	°C	ASTM D2887*	230	220		
40% Distill Point	°C	ASTM D2887*	243	234		
50% Distill Point	°C	ASTM D2887*	255	248		
60% Distill Point	°C	ASTM D2887*	267	262		
70% Distill Point	°C	ASTM D2887*	280	276		
80% Distill Point	°C	ASTM D2887*	295	291		
85% Distillation Point	°C	ASTM D2887*		302		
90% Distill Point	°C	ASTM D2887*	310	312		
95% Distillation Point	°C	ASTM D2887*		331		
Final Boiling Point	°C	ASTM D2887*	341	349		
IGNITION QUALIT	ГΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	40		
Cetane Index		ASTM D4737*	<40.0	51		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	6		
Sodium	ppm	ASTM D5185(m)	< 0.1	<1		
Potassium	ppm	ASTM D5185(m)	<0.1	1		
Water	%	ASTM D6304*	< 0.05	0.013		
ppm Water	ppm	ASTM D6304*	<500	130		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	130836		
Particles >6µm		ASTM D7647	>640	92668		
Particles >14µm		ASTM D7647	>80	17182		
Particles >21µm		ASTM D7647	>20	4013		
Particles >38µm		ASTM D7647	>4	4 39		
Particles >71µm		ASTM D7647	>3	1		

ISO 4406 (c) >18/16/13 **24/24/21**





FUEL REPORT

