

OIL ANALYSIS REPORT

Sample Rating Trend **WEAR**

[] WC-9700B-0102-5 Chiller #2 Component Chiller

Fluid

Machine Ic

{not provided} (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

A Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample DateClient Info09 Jan 202420 Sep 2023Machine AgehrsClient Info66301165772Oil AgehrsClient Info00Oil ChangedClient InfoN/AN/A	WC0784746 25 Jun 2023 104998 0 N/A
Machine AgehrsClient Info66301165772Oil AgehrsClient Info00Oil ChangedClient InfoN/AN/ASample StatusImage: Client InfoABNORMALABNORMAL	104998 0
Oil Age hrs Client Info 0 0 Oil Changed Client Info N/A N/A Sample Status Image: Client Info ABNORMAL ABNORMAL	0
Oil Changed Client Info N/A N/A Sample Status ABNORMAL ABNORMAL	
Oil Changed Client Info N/A Sample Status ABNORMAL ABNORMAL	N/A
Sample Status ABNORMAL ABNORMAL	
WEAR METALS method limit/base current history1	ABNORMAL
	history2
Iron ppm ASTM D5185m >8 0 <1	3
Chromium ppm ASTM D5185m >2 <1 0	0
Nickel ppm ASTM D5185m 0 0	0
Titanium ppm ASTM D5185m 0 0	0
Silver ppm ASTM D5185m >2 0 0	0
Aluminum ppm ASTM D5185m >3 2 0	0
Lead ppm ASTM D5185m >2 <1 <1	0
Copper ppm ASTM D5185m >8	<1
	<1
	0
Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m 0 0	0
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 0 0	0
Barium ppm ASTM D5185m 0 0	0
Molybdenum ppm ASTM D5185m 0 0	0
Manganese ppm ASTM D5185m 0 0	<1
Magnesium ppm ASTM D5185m <1 <1	0
Calcium ppm ASTM D5185m 50 51	3
Phosphorus ppm ASTM D5185m 331 277	4
Zinc ppm ASTM D5185m 169 188	0
Sulfur ppm ASTM D5185m 1068 816	44
CONTAMINANTS method limit/base current history1	history2
Silicon ppm ASTM D5185m >15 3 3	A 22
Sodium ppm ASTM D5185m 0 0	0
Potassium ppm ASTM D5185m >20 <1 <1	0
Water % ASTM D6304 >0.01 0.003 0.00	0.047
ppm Water ppm ASTM D6304 >100 33 0.00	478.8
FLUID CLEANLINESS method limit/base current history1	history2
	3806
Particles >4µm ASTM D7647 >10000 ▲ 17642 ▲ 53425	830
F	
Particles >6μm ASTM D7647 >2500 2057 ▲ 5237	30
Particles >6μm ASTM D7647 >2500 2057 ▲ 5237 Particles >14μm ASTM D7647 >320 41 26	30 5
Particles >6μm ASTM D7647 >2500 2057 ▲ 5237 Particles >14μm ASTM D7647 >320 41 26 Particles >21μm ASTM D7647 >80 17 4	
Particles >6μm ASTM D7647 >2500 2057 5237 Particles >14μm ASTM D7647 >320 41 26 Particles >21μm ASTM D7647 >80 17 4 Particles >38μm ASTM D7647 >20 8 1	5
Particles >6μm ASTM D7647 >2500 2057 5237 Particles >14μm ASTM D7647 >320 41 26 Particles >21μm ASTM D7647 >80 17 4 Particles >38μm ASTM D7647 >20 8 1	5 0
Particles >6μm ASTM D7647 >2500 2057 5237 Particles >14μm ASTM D7647 >320 41 26 Particles >21μm ASTM D7647 >80 17 4 Particles >38μm ASTM D7647 >20 8 1 Particles >71μm ASTM D7647 >4 2 1	5 0 0

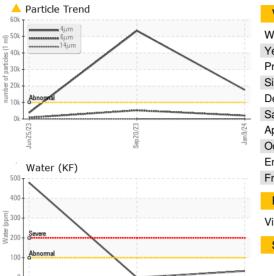
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Particle Trend

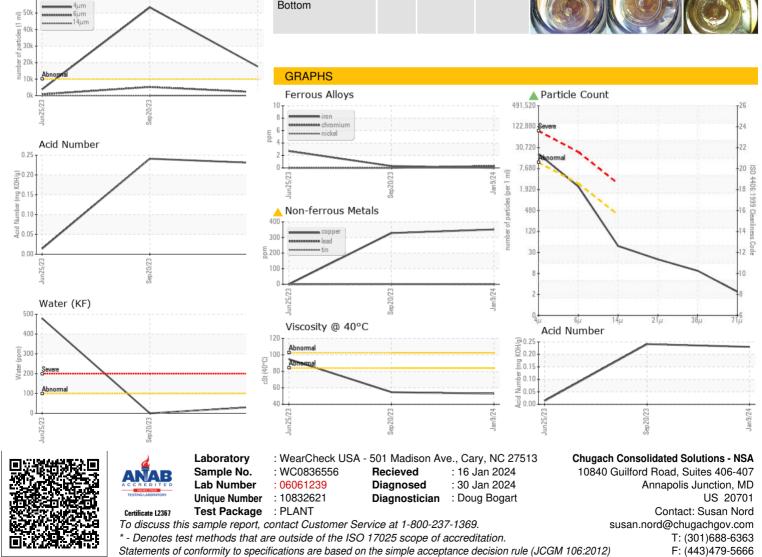
60

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		52.8	54.7	94.8
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
					1 Casto	

Bottom



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