

PROBLEM SUMMARY



Machine Id Component Chiller

Fluid NOT GIVEN (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	
Copper	ppm	ASTM D5185m	>8	<u> </u>	<1	
Particles >4µm		ASTM D7647	>10000	6 53425	3806	
Particles >6µm		ASTM D7647	>2500	<u> </u>	830	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/20/12	19/17/12	

Customer Id: CHUANN Sample No.: WC0836524 Lab Number: 05959142 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.			

HISTORICAL DIAGNOSIS



25 Jun 2023 Diag: Angela Borella

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id WC-9700B-0102-5 Chiller #2

Chiller Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

🔺 Wear

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

Contamination

There is a high amount of silt (particulates < 14 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836524	WC0784746	
Sample Date		Client Info		20 Sep 2023	25 Jun 2023	
Machine Age	hrs	Client Info		65772	104998	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	3	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	0	0	
Lead	maa	ASTM D5185m	>2	<1	0	
Copper	mag	ASTM D5185m	>8	328	<1	
Tin	maa	ASTM D5185m	>4	0	<1	
Vanadium	mag	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	nom	ASTM D5185m		0	0	
Manganese	nnm	ASTM D5185m		0	<1	
Magnesium	nom	ASTM D5185m		د د1	0	
Calcium	ppm	ASTM D5185m		51	3	
Phosphorus	nnm	ASTM D5185m		277	4	
Zinc	nnm	ASTM D5185m		188	0	
Sulfur	nnm	ASTM D5185m		816	44	
	ppm	Ao fili Do fooli	limit/base	ourrent	historut	biotom/0
CONTAMINANTS		method	imitoase	current	nistory i	nistory2
Silicon	ppm	ASTM D5185m	>15	3	<u> </u>	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.01	0.00	0.047	
ppm Water	ppm	ASTM D6304	>100	0.00	478.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	5 3425	3806	
Particles >6µm		ASTM D7647	>2500	<u> </u>	830	
Particles >14µm		ASTM D7647	>320	26	30	
Particles >21µm		ASTM D7647	>80	4	5	
Particles >38µm		ASTM D7647	>20	1	0	
Particles >71µm		ASTM D7647	>4	1	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	23/20/12	19/17/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.241	0.014	



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

history1

NEG

NEG

94.8

history2

history2

history2

no image

no image

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