

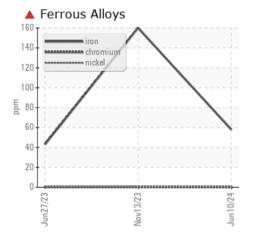
PROBLEM SUMMARY

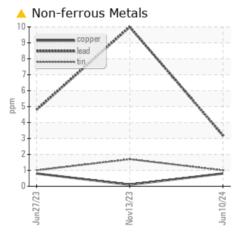
Sample Rating Trend WEAR

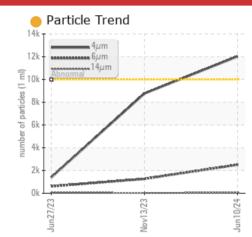
Machine Id Component Chiller Fluid

{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	ABNORMAL			
Iron	ppm	ASTM D5185m	>8	5 8	1 60	4 3			
Lead	ppm	ASTM D5185m	>2	A 3	1 0	4 5			

Customer Id: CHUANN Sample No.: WC0827422 Lab Number: 06208744 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



13 Nov 2023 Diag: Doug Bogart

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is abnormal. The lead level is abnormal. There is no indication of any contamination in the oil. 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.





27 Jun 2023 Diag: Angela Borella

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Iron and lead ppm levels are abnormal. There is no indication of any contamination in the oil. 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

X

Machine Id

[] WC-9990-0201-5 Chiller #1

Chiller

Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

The iron level is abnormal. The lead level is abnormal. Bearing wear is indicated.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0827422	WC0836490	WC0784794
Sample Date		Client Info		10 Jun 2024	13 Nov 2023	27 Jun 2023
Machine Age	hrs	Client Info		111941	110897	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5 8	1 60	4 3
Chromium	ppm	ASTM D5185m	>2	0	<1	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	0	0	0
Lead	ppm	ASTM D5185m	>2	A 3	1 0	▲ 5
Copper	ppm	ASTM D5185m	>8	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	1	2	1
Vanadium	ppm	ASTM D5185m		0	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	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	2	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	2	0
Zinc	ppm	ASTM D5185m		4	0	3
Sulfur	ppm	ASTM D5185m		0	37	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	4	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.044	0.024	0.055
ppm Water	ppm	ASTM D6304	>100	447	247.8	558.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	12023	8761	1397
Particles >6µm		ASTM D7647	>2500	2504	1265	609
Particles >14µm		ASTM D7647	>320	39	29	42
Particles >21µm		ASTM D7647	>80	4	4	6
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	e 21/19/12	20/17/12	18/16/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.402	0.115	0.087



particles (per 1

480 120

30

14 12

r of particles (1 n 98 gk 99 gk

4k

2 n,

0.50

(B/HO)

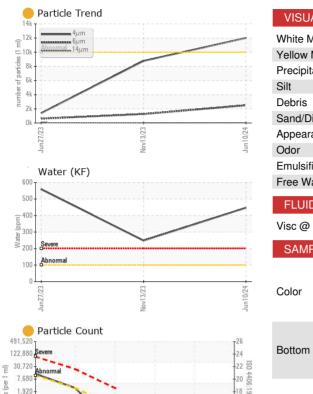
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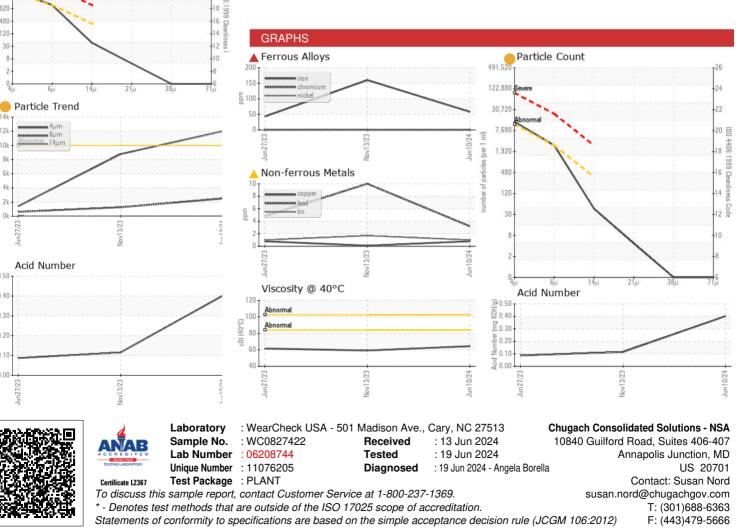
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OIL ANALYSIS REPORT







Report Id: CHUANN [WUSCAR] 06208744 (Generated: 06/21/2024 12:06:53) Rev: 1

Contact/Location: Susan Nord - CHUANN

Page 4 of 4