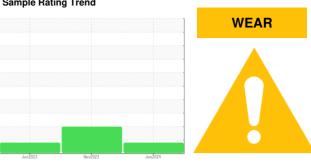


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# WC-9990-0203-5 Chiller #3

Chiller

{not provided} (--- GAL)

## DIAGNOSIS

## Recommendation

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

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

## Contamination

The amount and size of particulates present in the system are acceptable.

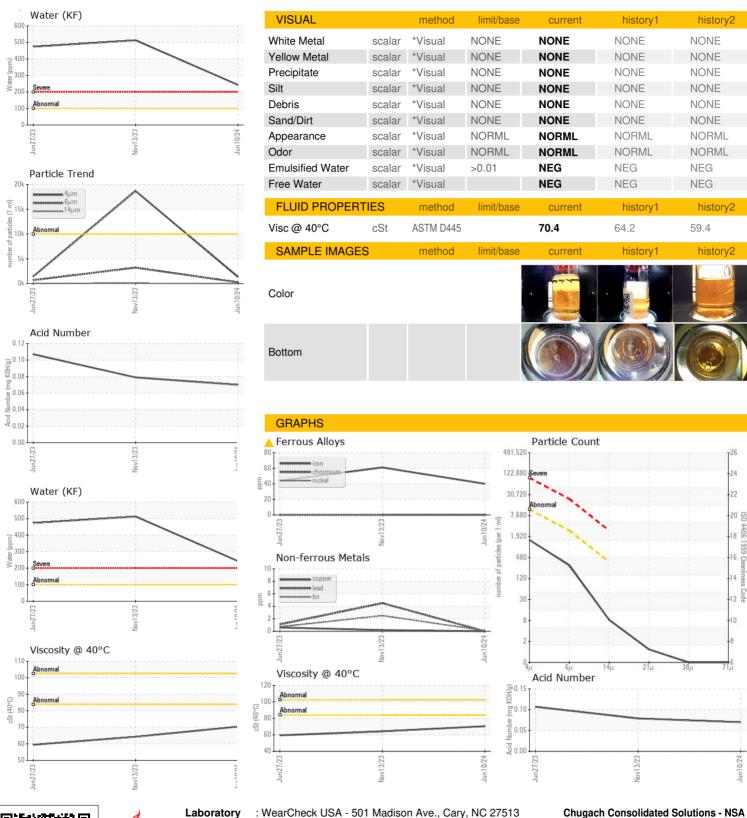
## **Fluid Condition**

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

		Jur	2023	Nov2023 Jun20	024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0827420	WC0836558	WC0784795
Sample Date		Client Info		10 Jun 2024	13 Nov 2023	27 Jun 2023
Machine Age	hrs	Client Info		83837	82037	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<b>4</b> 0	<b>△</b> 61	<u>44</u>
Chromium	ppm	ASTM D5185m	>2	0	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	0	0	0
Lead	ppm	ASTM D5185m	>2	0	4	1
Copper	ppm	ASTM D5185m	>8	0	<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		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	1	0
Zinc	ppm	ASTM D5185m		5	0	<1
Sulfur	ppm	ASTM D5185m		0	5	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	8	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.024	0.051	0.047
ppm Water	ppm	ASTM D6304	>100	243	512.8	473.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1340	18679	1393
Particles >6µm		ASTM D7647	>2500	254	3211	672
Particles >14µm		ASTM D7647	>320	7	67	47
Particles >21µm		ASTM D7647	>80	1	11	9
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/15/10	21/19/13	18/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.07	0.079	0.107



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: 06208751

: WC0827420 Unique Number : 11076212 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 Jun 2024 - Angela Borella

10840 Guilford Road, Suites 406-407 Annapolis Junction, MD US 20701

Contact: Susan Nord susan.nord@chugachgov.com

T: (301)688-6363 F: (443)479-5666

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

Report Id: CHUANN [WUSCAR] 06208751 (Generated: 06/21/2024 12:08:12) Rev: 1

Contact/Location: Susan Nord - CHUANN