

PROBLEM SUMMARY

Sample Rating Trend

WATER

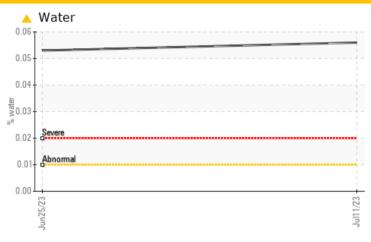


[] WC-9800-0103-5 Chiller #3

Component Chiller

YORK TYPE K (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				MARGINAL	ABNORMAL		
Water	%	ASTM D6304	>0.01	△ 0.056	△ 0.053		
ppm Water	ppm	ASTM D6304	>100	△ 566.5	→ 530.9		

Customer Id: CHUANN **Sample No.:** WC0827381 Lab Number: 05899352 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 ACTIONS

Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

25 Jun 2023 Diag: Jonathan Hester

WATER



No corrective action is recommended at this time. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a light concentration of water present in the oil. 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 suitable for further service.





OIL ANALYSIS REPORT



WATER



[] WC-9800-0103-5 Chiller #3

Chiller

YORK TYPE K (--- GAL)

DIAGNOSIS	

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

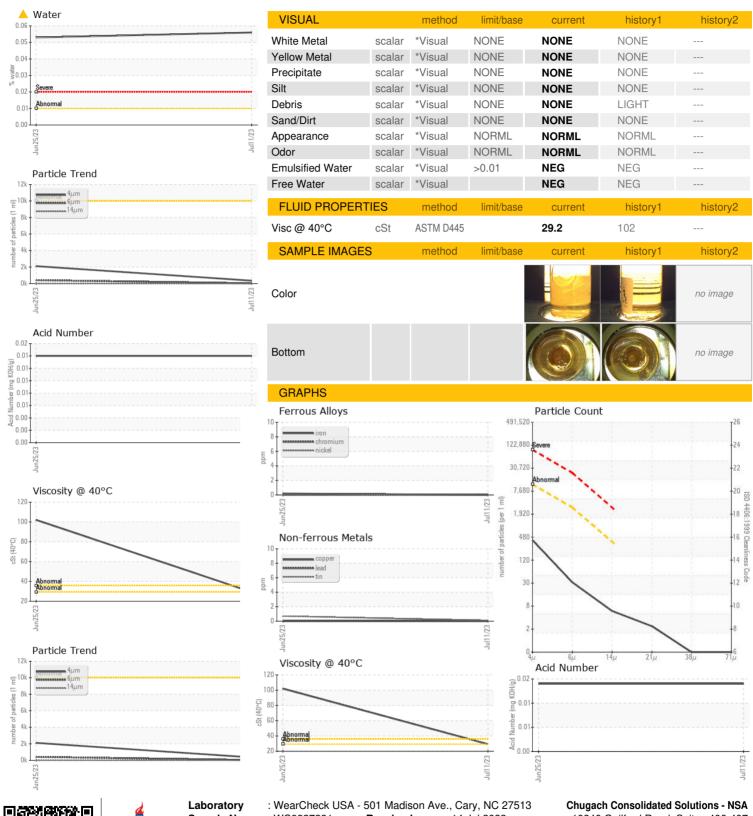
Fluid Condition

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

			Jun 2023	Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0827381	WC0827396	
Sample Date		Client Info		11 Jul 2023	25 Jun 2023	
Machine Age	hrs	Client Info		31508	31181	
Oil Age	hrs	Client Info		0	0	
Oil Changed	0	Client Info		N/A	N/A	
Sample Status				MARGINAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	<1	
Chromium	ppm	ASTM D5185m		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		<1	0	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m		0	0	
Tin		ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m	>4	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		<1	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		4	<1	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		0	10	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	9	<u> </u>	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.01	△ 0.056	△ 0.053	
ppm Water	ppm	ASTM D6304	>100	△ 566.5	▲ 530.9	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	352	2112	
Particles >6µm		ASTM D7647	>2500	28	416	
Particles >14µm		ASTM D7647	>320	5	10	
Particles >21µm		ASTM D7647	>80	2	1	
Particles >38µm		ASTM D7647	>20	0	0	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	16/12/10	18/16/10	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.014	0.014	



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number** Test Package

: WC0827381 : 05899352 : 10560708 : PLANT

: 14 Jul 2023 Received Diagnosed : 20 Jul 2023 Diagnostician : Angela Borella

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

> Contact: Susan Nord susan.nord@chugachgov.com T: (301)688-6363

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)

F: (443)479-5666 Contact/Location: Susan Nord - CHUANN