

PROBLEM SUMMARY

Sample Rating Trend

WATER

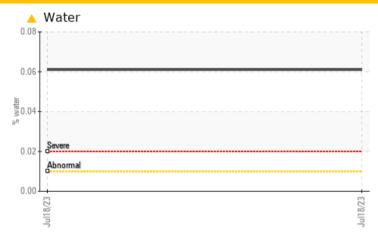


Machine Id WC-9000-0105-5 Chiller #5

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 R | ESULTS | | | |
|---------------|--------|------------|-------|--------------|------|
| Sample Status | | | | ABNORMAL | |
| Water | % | ASTM D6304 | >0.01 | <u> </u> | |
| ppm Water | mqq | ASTM D6304 | >100 | 614.5 | |

Customer Id: CHUANN Sample No.: WC0827416 Lab Number: 05904949 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

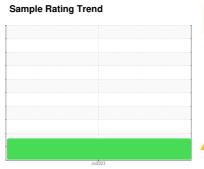
To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

| RECOMMENDED AC | CTIONS | | | |
|----------------|--------|------|---------|---|
| Action | Status | Date | Done By | Description |
| Resample | | | ? | We recommend an early resample to monitor this condition. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



WATER



[] WC-9000-0105-5 Chiller #5

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.

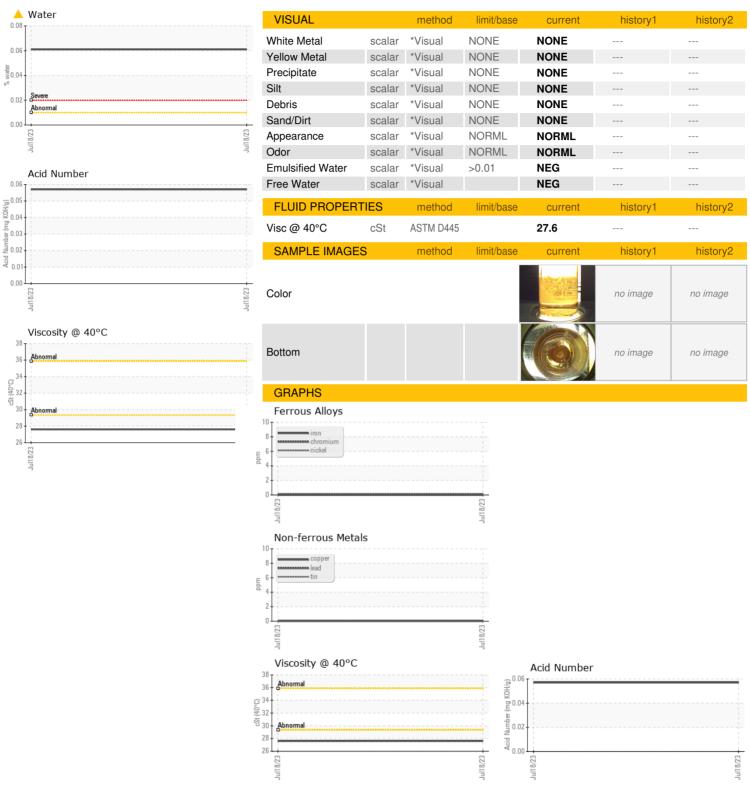
Fluid Condition

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

| | | | | Jul2023 | | |
|--|--|---|------------------------------|---|-------------------|----------------------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0827416 | | |
| Sample Date | | Client Info | | 18 Jul 2023 | | |
| Machine Age | hrs | Client Info | | 14771 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | ABNORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | 0 | | |
| Chromium | ppm | ASTM D5185m | >2 | 0 | | |
| Nickel | ppm | ASTM D5185m | | <1 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >3 | 0 | | |
| Lead | ppm | ASTM D5185m | >2 | 0 | | |
| Copper | ppm | ASTM D5185m | >8 | 0 | | |
| Tin | ppm | ASTM D5185m | >4 | 0 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| | ррии | 710 1111 20 100111 | | U | | |
| ADDITIVES | ppiii | method | limit/base | current | history1 | history2 |
| | ppm | | limit/base | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| ADDITIVES Boron | ppm | method ASTM D5185m | limit/base | current 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum | ppm ppm | method ASTM D5185m ASTM D5185m | limit/base | current 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese | ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | current 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium | ppm ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | current 0 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium | ppm ppm ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | current 0 0 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | limit/base | current 0 0 0 0 0 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base | Current 0 0 0 0 0 0 0 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base | Current 0 0 0 0 0 0 0 0 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | | Current 0 0 0 0 0 0 0 0 0 0 0 0 0 | history1 | history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base | current 0 0 0 0 0 0 0 0 0 0 current | history1 history1 | history2 history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base | Current 0 0 0 0 0 0 0 0 0 0 current 6 | history1 history1 | history2 history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base >15 | Current | history1 history1 | history2 history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base >15 >20 | current 0 0 0 0 0 0 0 0 0 0 current 6 <1 0 | history1 history1 | history2 history2 history2 |
| ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | method ASTM D5185m | limit/base >15 >20 >0.01 | current 0 0 0 0 0 0 0 0 0 current 6 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | history1 history1 | history2 history2 |



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0827416 : 05904949 : 10566305 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jul 2023 Diagnosed : 01 Aug 2023 : Doug Bogart Diagnostician

Chugach Consolidated Solutions - NSA 10840 Guilford Road, Suites 406-407 Annapolis Junction, MD

US 20701

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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)