



# PROBLEM SUMMARY

Sample Rating Trend

WATER



Machine Id

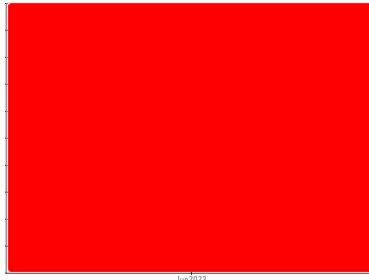
**DAIKIN CH 7-3 (S/N STNU220100043)**

Component

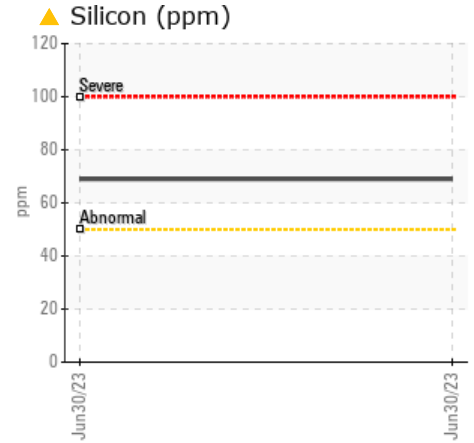
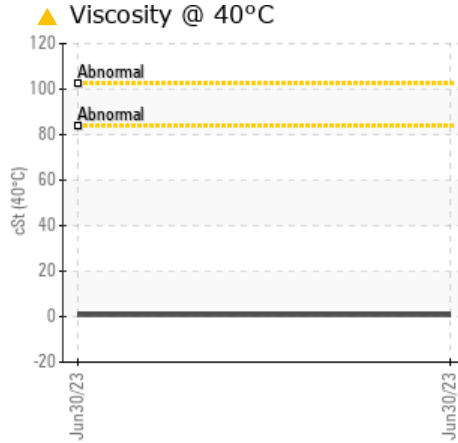
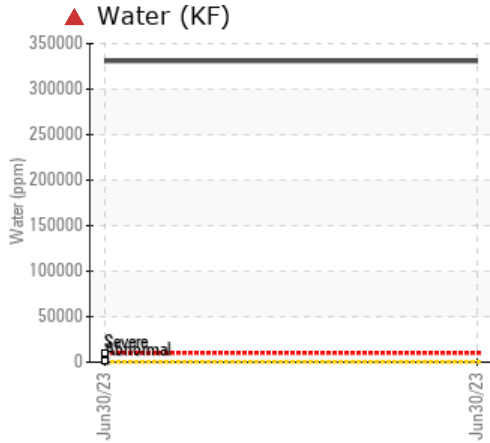
**Refrigeration Compressor**

Fluid

{not provided} (--- GAL)



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Silicon	ppm	ASTM D5185m	>50	▲ 69	---	---
Water	%	ASTM D6304	>0.02	▲ 33.1	---	---
ppm Water	ppm	ASTM D6304	>250	▲ 331000	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Emulsified Water	scalar	*Visual	>0.02	▲ 0.2%	---	---
Free Water	scalar	*Visual		▲ >10%	---	---
Visc @ 40°C	cSt	ASTM D445		▲ 0.8	---	---

Customer Id: MCQUPP  
 Sample No.: WC0798469  
 Lab Number: 06221316  
 Test Package: IND 2



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](mailto:angela.borella@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

WATER



Machine Id

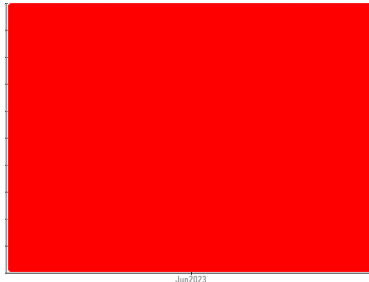
**DAIKIN CH 7-3 (S/N STNU220100043)**

Component

**Refrigeration Compressor**

Fluid

{not provided} (--- GAL)



## DIAGNOSIS

### ▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. Excessive free water present. Moderate concentration of visible dirt/debris present in the oil.

### ▲ Fluid Condition

The oil viscosity is lower than normal.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0798469</b>	---	---
Sample Date	Client Info		<b>30 Jun 2023</b>	---	---
Machine Age	hrs	Client Info	<b>1072</b>	---	---
Oil Age	hrs	Client Info	<b>1072</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>0</b>	---
Chromium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>50	<b>2</b>	---
Lead	ppm	ASTM D5185m	>2	<b>0</b>	---
Copper	ppm	ASTM D5185m	>100	<b>0</b>	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Calcium	ppm	ASTM D5185m		<b>0</b>	---
Phosphorus	ppm	ASTM D5185m		<b>1688</b>	---
Zinc	ppm	ASTM D5185m		<b>0</b>	---
Sulfur	ppm	ASTM D5185m		<b>0</b>	---

## CONTAMINANTS

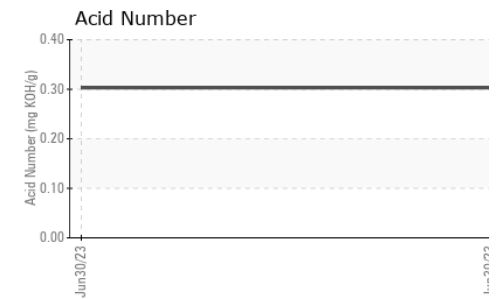
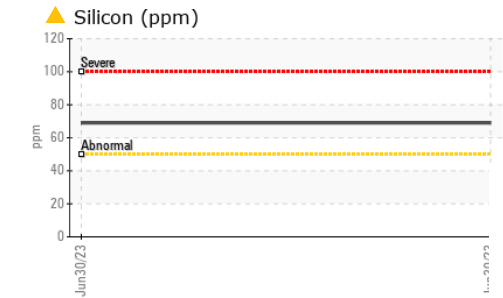
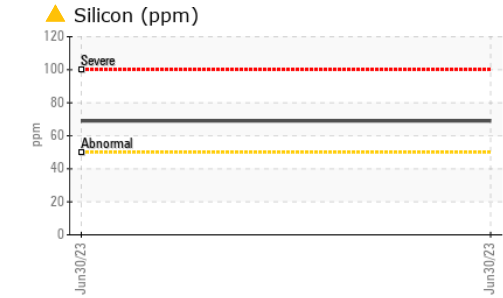
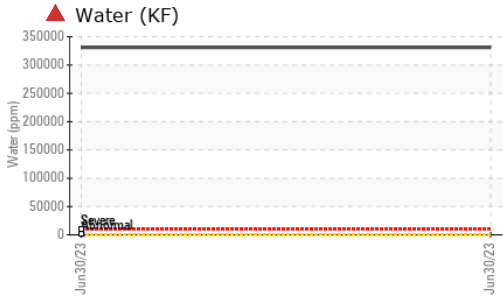
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>▲ 69</b>	---
Sodium	ppm	ASTM D5185m		<b>0</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---
Water	%	ASTM D6304	>0.02	<b>▲ 33.1</b>	---
ppm Water	ppm	ASTM D6304	>250	<b>▲ 331000</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		<b>0.303</b>	---



# OIL ANALYSIS REPORT



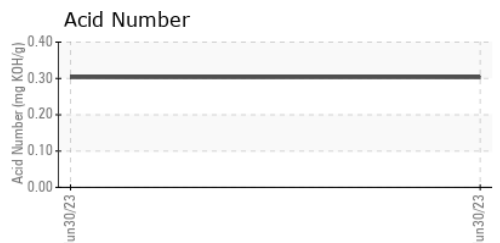
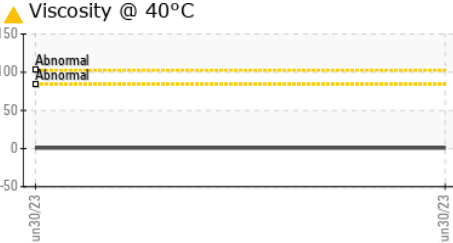
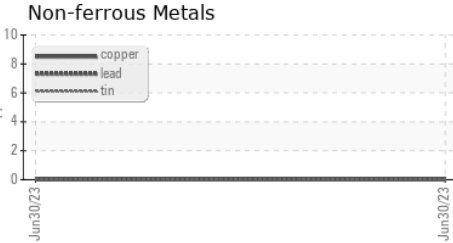
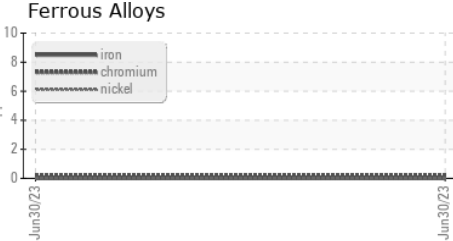
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.02	▲ 0.2%	---
Free Water	scalar	*Visual		▲ >10%	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	▲ 0.8	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0798469  
**Lab Number** : 06221316  
**Unique Number** : 11099513  
**Test Package** : IND 2

**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 28 Jun 2024 - Angela Borella

**DAIKIN APPLIED**  
 5021 HOWERTON WAY SUITE P  
 BOWIE, MD  
 US 20715

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)

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