

# **PROBLEM SUMMARY**

#### Sample Rating Trend

# WATER

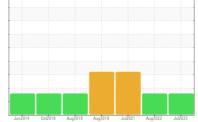
Machine Id

# MCQUAY QBE CHILLER 3 STAGE 2 (S/N STNU121200121)

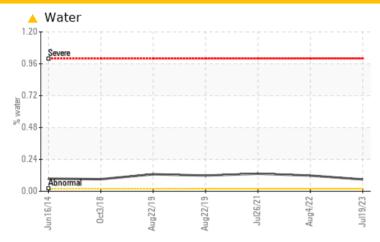
Component

**Refrigeration Compressor** 

POE (6 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				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL		
Water	%	ASTM D6304	>0.02	<b>△</b> 0.089	<b>△</b> 0.118	<b>△</b> 0.132		
ppm Water	ppm	ASTM D6304	>250	<b>896.5</b>	<u> </u>	▲ 1325.0		

Customer Id: NORDEF Sample No.: WC0709616 Lab Number: 05934412 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

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

#### 04 Aug 2022 Diag: Doug Bogart

#### WATER



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. Insufficient sample was received to conduct all the routine laboratory tests. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



#### 26 Jul 2021 Diag: Don Baldridge

#### 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 moderate concentration of water present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 22 Aug 2019 Diag: Don Baldridge

#### WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



**WATER** 



# MCQUAY QBE CHILLER 3 STAGE 2 (S/N STNU121200121)

**Refrigeration Compressor** 

POE (6 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

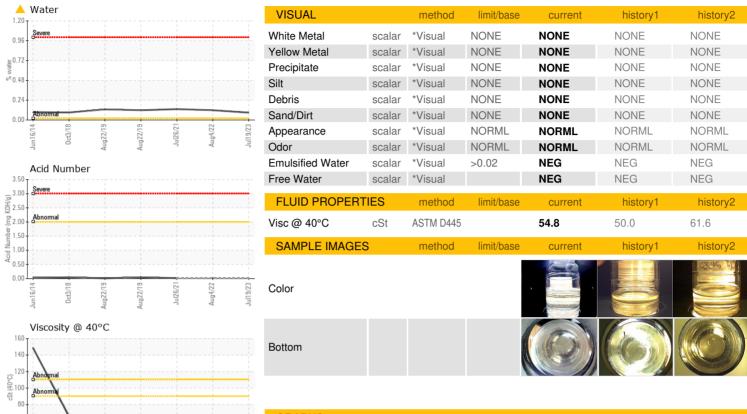
#### **Fluid Condition**

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

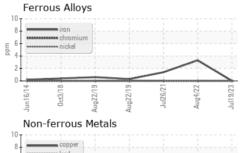
		Junzo14	OCIZOTO AUGZOTO	AUGZOTO JUIZOZT AUGZOZZ	JUE023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0709616	WC0578137	WCI2245801
Sample Date		Client Info		19 Jul 2023	04 Aug 2022	26 Jul 2021
Machine Age	yrs	Client Info		11	10	9
Oil Age	yrs	Client Info		1	10	9
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	0	3	1
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		0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		0	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	ourrent.	history1	history2
			IIIIIIIIIIIIIII			
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		3	6	13
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	1	7
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	16	46	<u></u> 54
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.02	<u> </u>	<b>△</b> 0.118	<b>△</b> 0.132
ppm Water	ppm	ASTM D6304	>250	<b>A</b> 896.5	▲ 1187.7	<u>▲</u> 1325.0
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.014		0.016

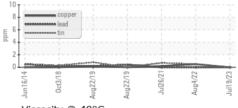


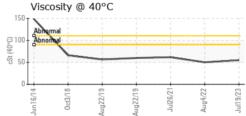
## **OIL ANALYSIS REPORT**

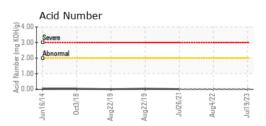


#### **GRAPHS**











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Certificate L2367

Nug22/19

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

: WC0709616 : 05934412 : 10619683 : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Aug 2023 Diagnosed : 29 Aug 2023

: Angela Borella Diagnostician

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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