

## **OIL ANALYSIS REPORT**

Particles >38µm

Particles >71µm

**Oil Cleanliness** 

Acid Number (AN)

FLUID DEGRADATION

### [SV2307050142/1] MCQUAY CHILLER C / HARRIS DATA CENTER (S/N STNU100800041) Component

**Refrigeration Compressor** 

**REFRIG COMP OIL ISO 32 (7 GAL)** 

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

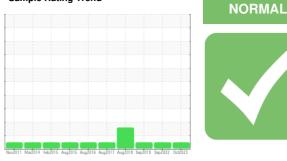
All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

#### Fluid Condition

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



Sample Rating Trend

Nev2011 Maz2014 Feb2015 Aug2015 Aug2017 Aug2019 Sep2019 Sep2022 Ocz2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0812176	WC0487280	WCI2309209
Sample Date		Client Info		17 Oct 2023	16 Sep 2022	23 Sep 2019
Machine Age	hrs	Client Info		0	32620	15390
Oil Age	hrs	Client Info		0	32620	15390
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	18	8
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	2	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>50	<1	<1	1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>100	3	14	18
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Antimony	ppm	ASTM D5185m				2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	1	0	<1
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	0	0	3
Calcium	ppm	ASTM D5185m	12	0	0	0
Phosphorus	ppm	ASTM D5185m	12	0	12	<1
Zinc	ppm	ASTM D5185m	12	12	21	14
Sulfur	ppm	ASTM D5185m	1000	0	78	0
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	16	18	7
Sodium	ppm	ASTM D5185m		0	<1	3
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water	%	ASTM D6304	>0.02	0.018	0.004	0.012
ppm Water	ppm	ASTM D6304	>250	182.0	43.7	128.8
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	5710		
Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		5710 885		
•						
Particles >6µm		ASTM D7647	>2500 >320	885		

Report Id: MCQRIC [WUSCAR] 05996794 (Generated: 11/04/2023 11:24:18) Rev: 1

mg KOH/g ASTM D974 0.10

ASTM D7647 >20

ASTM D7647 >4

ISO 4406 (c) >20/18/15

0.068 0.083

0

0

20/17/11

Contact/Location: GANIS HEISLER - MCQRIC

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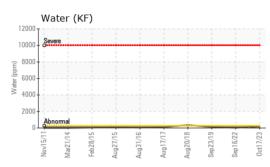
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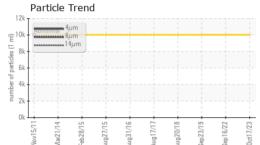


Water (KF)

12000

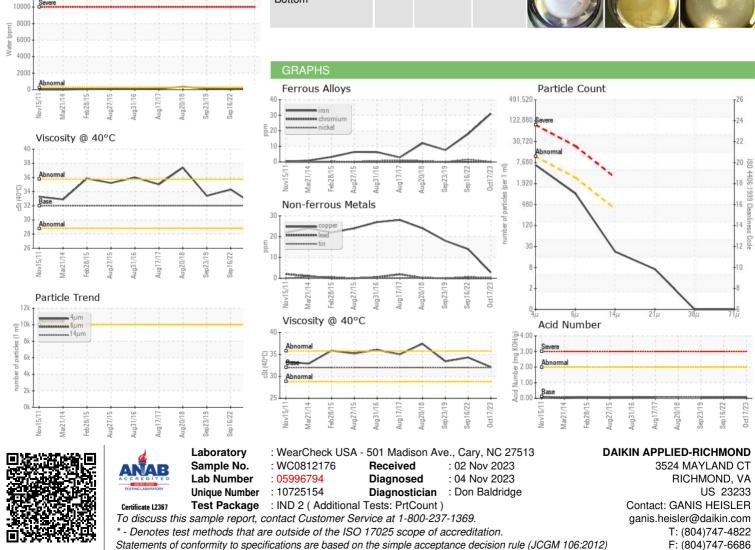
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Contact/Location: GANIS HEISLER - MCQRIC