

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# MCQUAY VA MEDICAL CENTER CHILLER 1 (S/N STNU110700045)

Component

**Refrigeration Compressor** 

**EMKARATE RL 32H (--- GAL)** 

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Waar

All component wear rates are normal.

### Contamination

There is a trace of moisture present in the oil. Elemental level of silicon (Si) above normal.

### **Fluid Condition**

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0814472	WCI2277797	WCI2309363
Sample Date		Client Info		26 Dec 2023	26 Apr 2023	25 Mar 2020
Machine Age	hrs	Client Info		17800	0	0
Oil Age	hrs	Client Info		0	3	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	14	<1	5
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	<1
Lead	ppm	ASTM D5185m	>2	3	0	2
Copper	ppm	ASTM D5185m	>8	10	<1	16
Tin	ppm	ASTM D5185m	>4	2	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	4	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	0	2	0
Calcium	ppm	ASTM D5185m	^		0	•
	PP	ASTIVI DSTOSIII	0	0	2	0
Phosphorus	ppm	ASTM D5185m	5	0 4	441	0
Phosphorus Zinc			-		_	
	ppm	ASTM D5185m	5	4	441	0
Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	5	4	441 6	0
Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	5 10 50	4 4 32	441 6 958	0 8 32
Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	5 10 50 limit/base	4 4 32 current	441 6 958 history1	0 8 32 history2
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	5 10 50 limit/base	4 4 32 current	441 6 958 history1	0 8 32 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	5 10 50 limit/base >15	4 4 32  current  21 0	441 6 958 history1 <1 17	0 8 32 history2 \$\triangle 29 <1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	5 10 50 limit/base >15 >20	4 4 32  current  21 0 2	441 6 958 history1 <1 17 <1	0 8 32 history2 29 <1 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	5 10 50 limit/base >15 >20 >0.01	4 4 32 current  21 0 2  0.013	441 6 958 history1 <1 17 <1  0.013	0 8 32 history2 29 <1 0 0.006



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Laboratory Sample No.

Lab Number **Unique Number** 

: WC0814472 : 06056766 : 10822715 Test Package

: IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024

Diagnostician : Don Baldridge

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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)