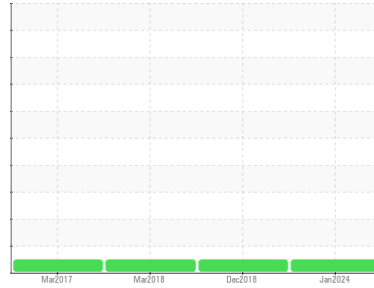




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[SV2310310272]**  
 Machine Id  
**MCQUAY 100 E PRATT CH4 (S/N SVH0102400)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**ICI EMKARATE RL 46H (8 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WCI2308768</b>	WCI2295589	WCI2261089
Sample Date	Client Info	<b>10 Jan 2024</b>	17 Dec 2018	15 Mar 2018
Machine Age	hrs	<b>24200</b>	18040	16670
Oil Age	hrs	<b>0</b>	18040	16670
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	<b>7</b>	1	<1
Chromium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >50	<b>11</b>	0	0
Lead	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >100	<b>2</b>	<1	<1
Tin	ppm	ASTM D5185m >4	<b>3</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Barium	ppm	ASTM D5185m 0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	0	1
Calcium	ppm	ASTM D5185m 0	<b>2</b>	0	0
Phosphorus	ppm	ASTM D5185m 1900	<b>1969</b>	0	4
Zinc	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	1
Sulfur	ppm	ASTM D5185m 25	<b>12</b>	0	18

## CONTAMINANTS

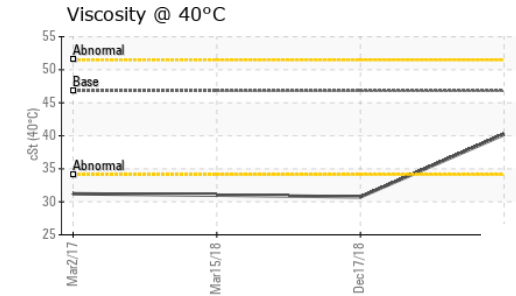
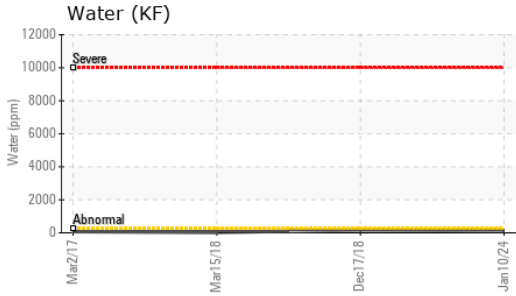
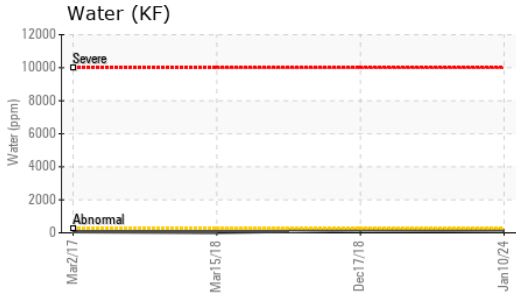
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>7</b>	7	3
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304 >0.02	<b>0.011</b>	0.017	0.002
ppm Water	ppm	ASTM D6304 >250	<b>120</b>	170	20

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974 0.03	<b>0.133</b>	0.027	0.060



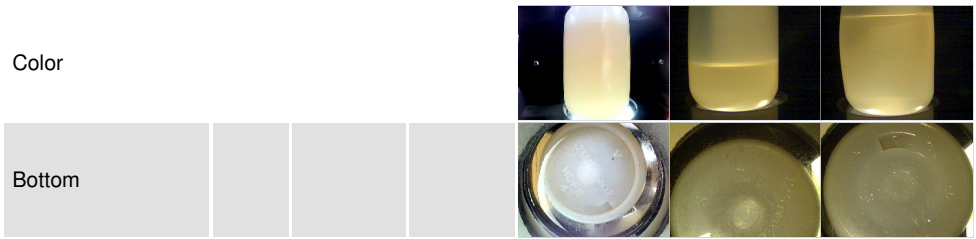
# OIL ANALYSIS REPORT



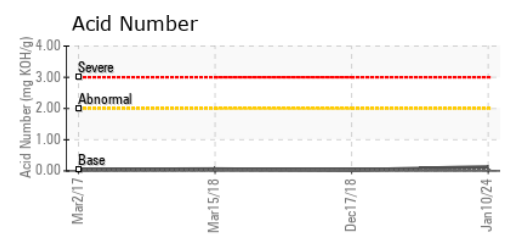
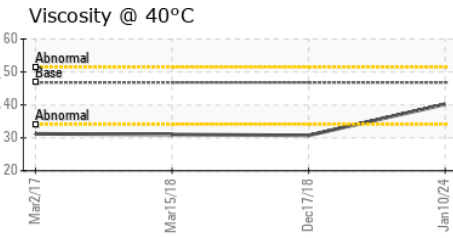
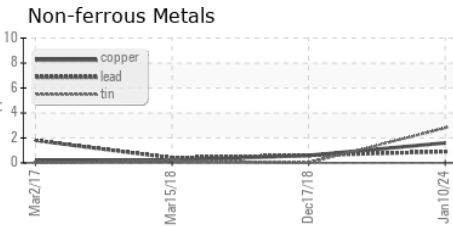
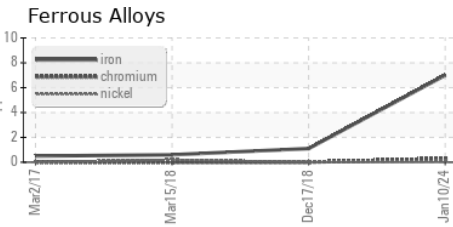
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.8	40.2	30.74	31.01

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC12308768 **Recieved** : 17 Jan 2024  
**Lab Number** : 06063654 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835036 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**DAIKIN APPLIED**  
 5021 HOWERTON WAY SUITE P  
 BOWIE, MD  
 US 20715  
 Contact: EDWARD FEENEY  
 edward.feeney@daikinapplied.com  
 T:

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)

F: (301)735-1838