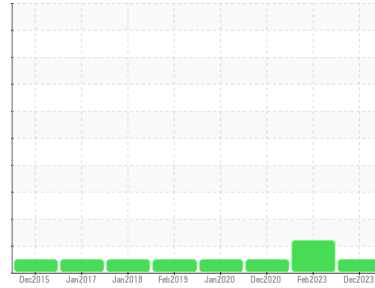




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[2312060226/1]**  
 Machine Id  
**MCQUAY 1999 KST CH2-1 (S/N STNU080400087)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**ICI EMKARATE RL 46H (7 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>WC0798498</b>	WC0783433	WCI2309313
Sample Date	Client Info		<b>08 Dec 2023</b>	16 Feb 2023	15 Dec 2020
Machine Age	hrs	Client Info	<b>20220</b>	19320	16230
Oil Age	hrs	Client Info	<b>0</b>	0	16230
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>14</b>	35	31
Chromium	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>1</b>	2	2
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >50	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >100	<b>5</b>	9	13
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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>	0	1
Barium	ppm	ASTM D5185m 0	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	10	0
Calcium	ppm	ASTM D5185m 0	<b>0</b>	2	<1
Phosphorus	ppm	ASTM D5185m 1900	<b>45</b>	145	152
Zinc	ppm	ASTM D5185m 0	<b>25</b>	62	32
Sulfur	ppm	ASTM D5185m 25	<b>73</b>	0	49

## CONTAMINANTS

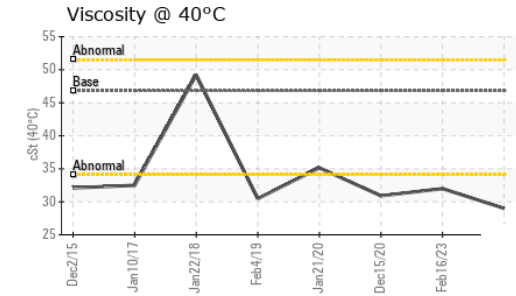
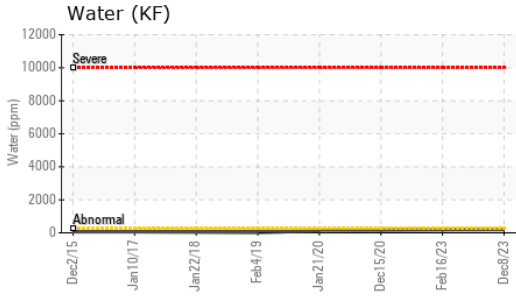
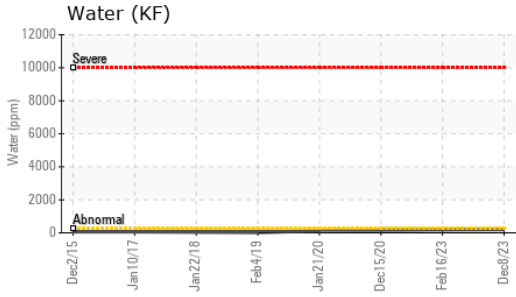
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>18</b>	19	16
Sodium	ppm	ASTM D5185m	<b>2</b>	4	4
Potassium	ppm	ASTM D5185m >20	<b>6</b>	10	8
Water	%	ASTM D6304 >0.02	<b>0.019</b>	0.017	0.014
ppm Water	ppm	ASTM D6304 >250	<b>195</b>	179.4	148.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.03	<b>0.147</b>	▲ 0.198	0.169



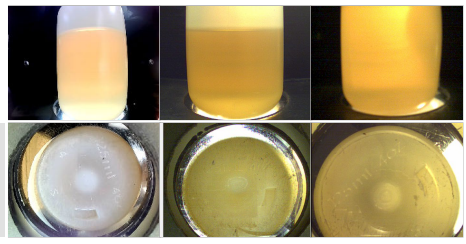
# OIL ANALYSIS REPORT



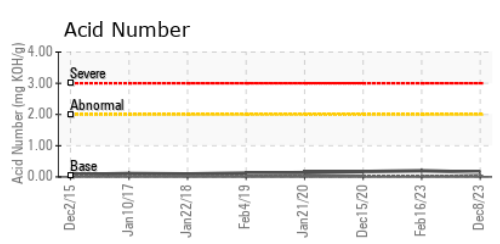
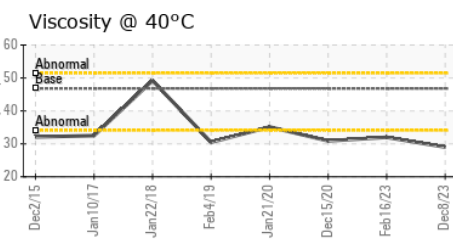
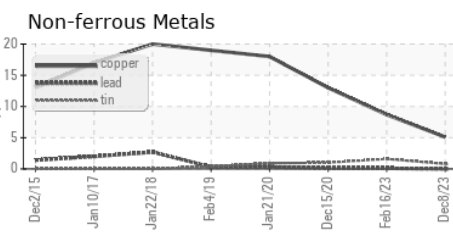
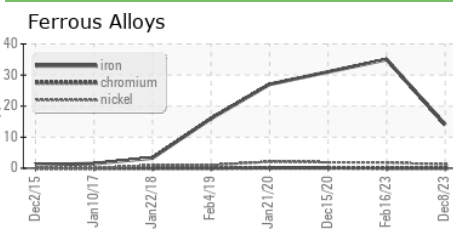
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	29.0	32.0	30.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0798498 **Received** : 10 Jan 2024  
**Lab Number** : 06056771 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822720 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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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)