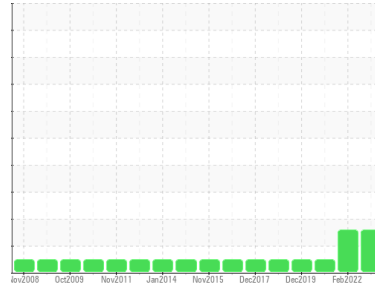




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**MCQUAY NBP322 CHILLER 1 (S/N STNU070900048)**

Component  
**Refrigeration Compressor**

Fluid  
**ANDEROL EVEREST 46 (7 GAL)**

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a trace of moisture present 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>WC0603706</b>	WC0603699	WCI2309341
Sample Date	Client Info		<b>02 Jan 2024</b>	07 Feb 2022	11 Jan 2021
Machine Age	hrs	Client Info	<b>82960</b>	71480	64960
Oil Age	hrs	Client Info	<b>82960</b>	71480	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>MARGINAL</b>	MARGINAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>5</b>	8	3
Chromium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
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>2</b>	<1	<1
Lead	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >100	<b>11</b>	27	23
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	2
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	<b>0</b>	2	4
Barium	ppm	ASTM D5185m	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	2
Manganese	ppm	ASTM D5185m	<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Phosphorus	ppm	ASTM D5185m	<b>50</b>	11	2
Zinc	ppm	ASTM D5185m	<b>0</b>	35	17
Sulfur	ppm	ASTM D5185m	<b>0</b>	77	22

## CONTAMINANTS

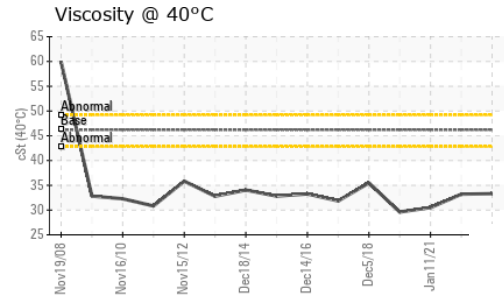
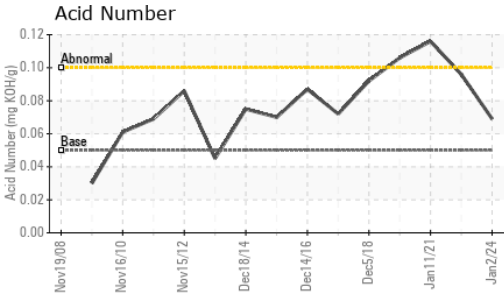
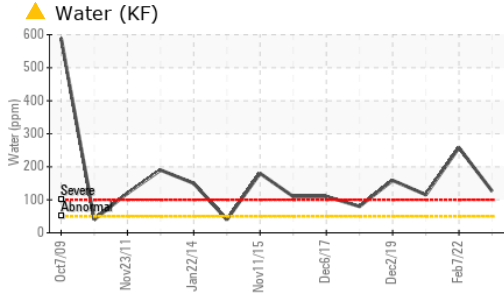
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>3</b>	4	8
Sodium	ppm	ASTM D5185m	<b>0</b>	1	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	1	0
Water	%	ASTM D6304 >0.005	<b>▲ 0.012</b>	▲ 0.025	0.011
ppm Water	ppm	ASTM D6304 >50	<b>▲ 126</b>	▲ 257.8	115.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.05	<b>0.069</b>	0.096	0.116



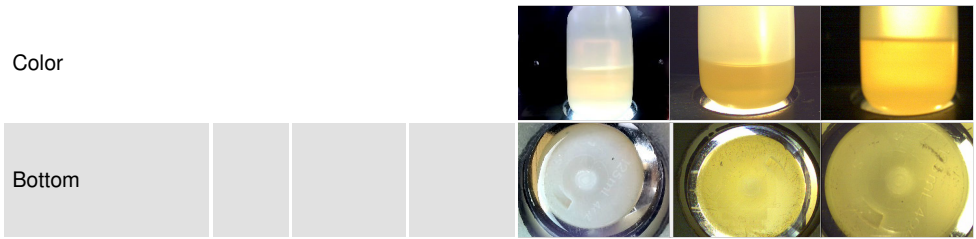
# OIL ANALYSIS REPORT



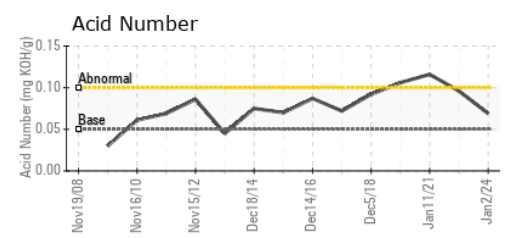
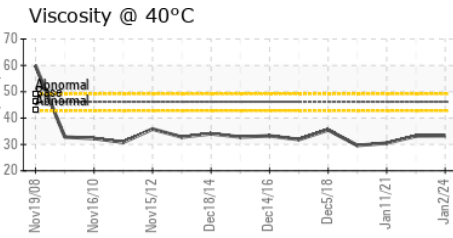
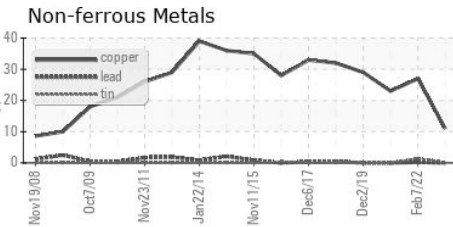
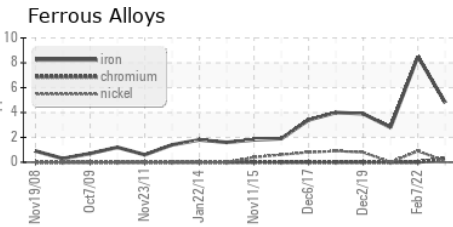
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.005	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.2	33.3	33.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0603706 **Received** : 17 Jan 2024  
**Lab Number** : 06063661 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835043 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**DAIKIN APPLIED**  
 5021 HOWERTON WAY SUITE P  
 BOWIE, MD  
 US 20715  
 Contact: ANDREW TURLINGTON  
 andrew.turlington@daikinapplied.com  
 T: (301)735-1440  
 F: (301)735-1838

Certificate L2367  
 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)