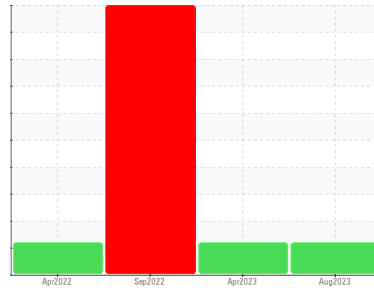


# PROBLEM SUMMARY

Area  
**PO-4010**  
 Machine Id  
**ELGI MSL061014 - CBRE BATTERY PLANT**  
 Component  
**Compressor**

Sample Rating Trend

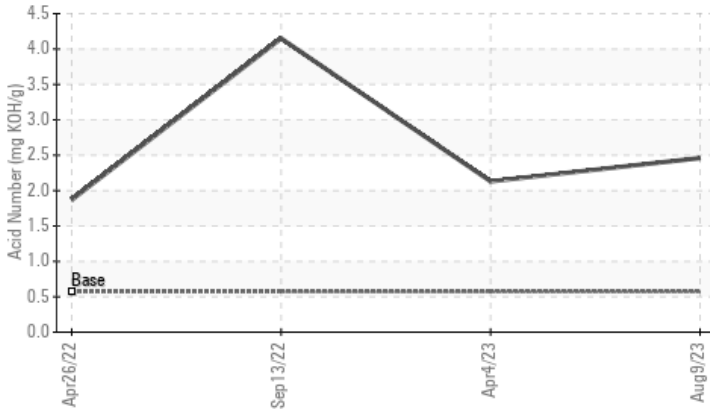


**DEGRADATION**



## COMPONENT CONDITION SUMMARY

▲ Acid Number



## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status		<b>ABNORMAL</b>	ABNORMAL	SEVERE
Acid Number (AN)	mg KOH/g ASTM D8045 0.573	▲ <b>2.46</b>	▲ 2.13	● 4.15

Customer Id: UCCELGCHA  
 Sample No.: UCP05923483  
 Lab Number: 05923483  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.

## HISTORICAL DIAGNOSIS

**04 Apr 2023 Diag: Jonathan Hester**

### DEGRADATION



We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is above the recommended limit.

view report



**13 Sep 2022 Diag: Angela Borella**

### WATER



We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. Excessive free water present. There is a moderate amount of visible silt present in the sample. The AN level is above the recommended limit.

view report



**26 Apr 2022 Diag: Doug Bogart**

### DEGRADATION

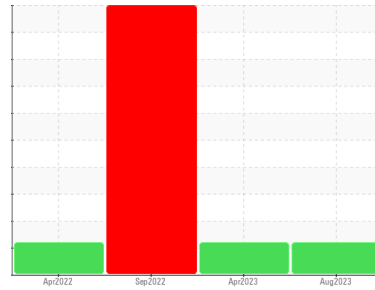


The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is at the top-end of the recommended limit.

view report



Area  
**PO-4010**  
Machine Id  
**ELGI MSL061014 - CBRE BATTERY PLANT**  
Component  
**Compressor**



**DIAGNOSIS**

**Recommendation**

We recommend that you drain the oil from the component if this has not already been done. 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 above the recommended limit.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCP05923483</b>	UCP05824145	UCP05644963
Sample Date	Client Info		<b>09 Aug 2023</b>	04 Apr 2023	13 Sep 2022
Machine Age	hrs	Client Info	<b>13476</b>	12587	8132
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	SEVERE

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>21</b>	18	8
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	3	2
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>9</b>	7	2
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	1
Barium	ppm	ASTM D5185m 0.4	<b>1</b>	2	0
Molybdenum	ppm	ASTM D5185m 0.5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0.4	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>18</b>	17	<1
Calcium	ppm	ASTM D5185m 0.3	<b>574</b>	814	0
Phosphorus	ppm	ASTM D5185m 1376	<b>560</b>	609	612
Zinc	ppm	ASTM D5185m 0	<b>707</b>	413	0
Sulfur	ppm	ASTM D5185m 320	<b>2574</b>	2788	1089

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	2	354
Sodium	ppm	ASTM D5185m	<b>20</b>	18	<1
Potassium	ppm	ASTM D5185m >20	<b>13</b>	14	<1

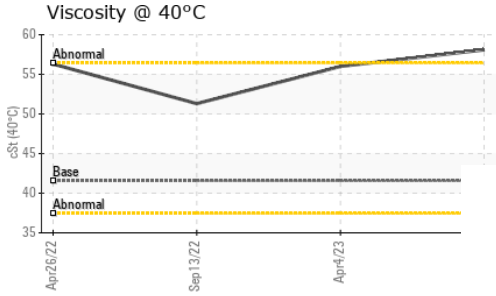
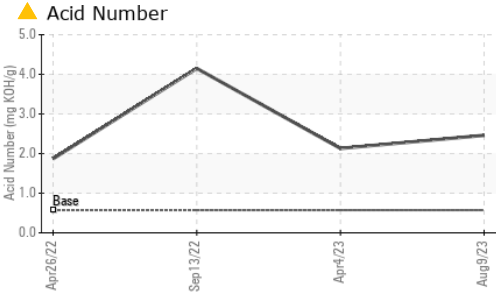
**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.573	<b>2.46</b>	2.13	4.15

**VISUAL**

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	SOLID
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	>10%

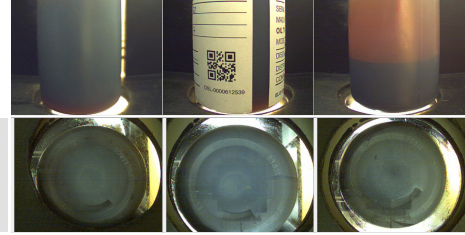
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	41.57	<b>58.1</b>	56.0	51.3

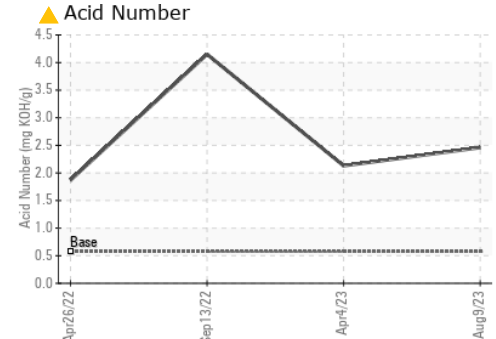
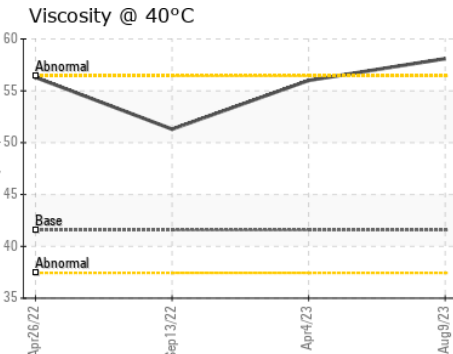
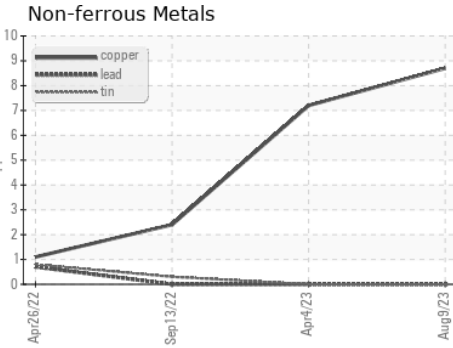
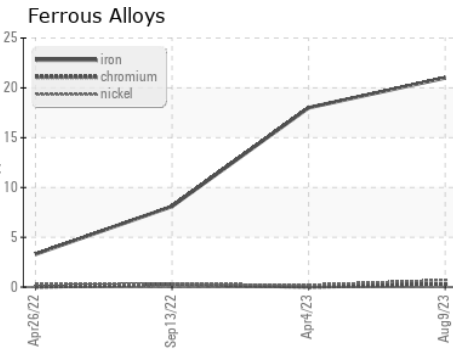
SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color



Bottom

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCP05923483 **Received** : 14 Aug 2023  
**Lab Number** : **05923483** **Diagnosed** : 15 Aug 2023  
**Unique Number** : 10603430 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**ELGI PORTABLE COMPRESSOR - NORTHERN COMP**  
 4610 ENTRANCE DR, SUITE A  
 CHARLOTTE, NC  
 US 28273  
 Contact: JERRY PETERS  
 JERRY.PETERS@ELGI.COM  
 T: 1(980)260-8915  
 F:

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)