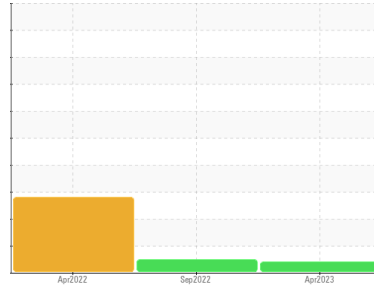


Area  
**PO-4010**  
 Machine Id  
**ELGI MSHL061316 - CBRE BATTERY PLANT**  
 Component  
**Compressor**

Sample Rating Trend

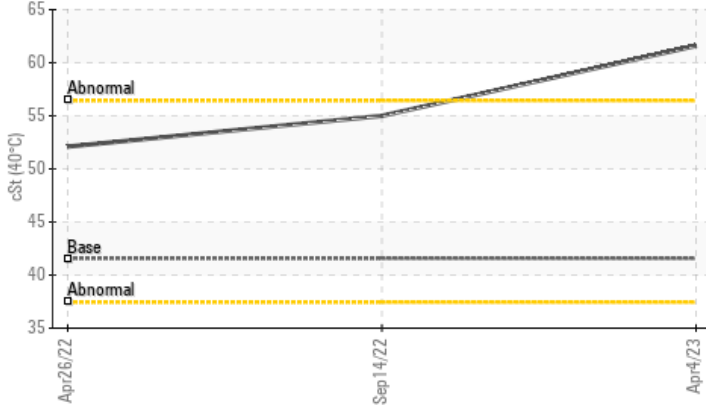


## VISCOSITY



### COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



### RECOMMENDATION

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

### PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	NORMAL	ABNORMAL
Visc @ 40°C	cSt	▲ 61.6	55.0	52.1

Customer Id: UCELGCHA  
 Sample No.: UCP05824146  
 Lab Number: 05824146  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 14 Sep 2022 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 26 Apr 2022 Diag: Doug Bogart

WATER

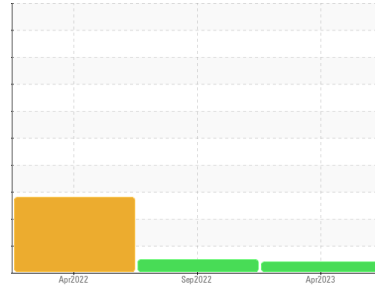


The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The AN level is at the top-end of the recommended limit.

view report



Area  
**PO-4010**  
 Machine Id  
**ELGI MSHL061316 - CBRE BATTERY PLANT**  
 Component  
**Compressor**



**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 no indication of any contamination in the oil.
- ▲ **Fluid Condition**  
 The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>UCP05824146</b>	UCP05644962	UCP05585124
Sample Date	Client Info		<b>04 Apr 2023</b>	14 Sep 2022	26 Apr 2022
Machine Age	hrs	Client Info	<b>11345</b>	6507	3246
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>ATTENTION</b>	NORMAL	ABNORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>3</b>	8	1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	<b>0</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>0</b>	3	<1
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	<1

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	2	5
Barium	ppm	ASTM D5185m 0.4	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m 0.5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m 0.4	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185m 0.3	<b>2</b>	0	2
Phosphorus	ppm	ASTM D5185m 1376	<b>250</b>	474	14
Zinc	ppm	ASTM D5185m 0	<b>0</b>	10	4
Sulfur	ppm	ASTM D5185m 320	<b>233</b>	806	415

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	2	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	29
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	3

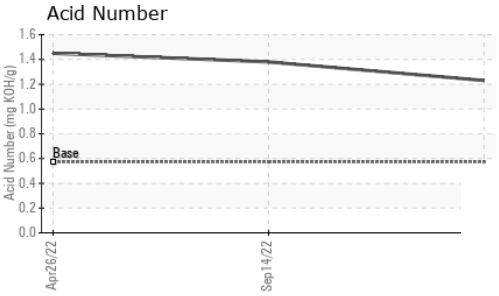
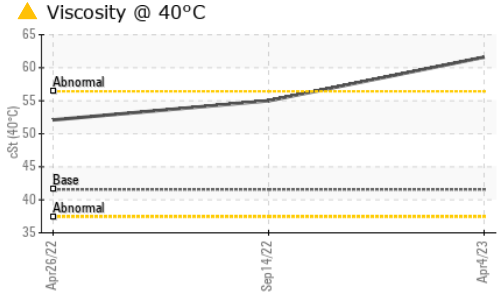
**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.573	<b>1.23</b>	1.38	▲ 1.45

**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	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	LIGHT	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	<b>NEG</b>	NEG	0.2%
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

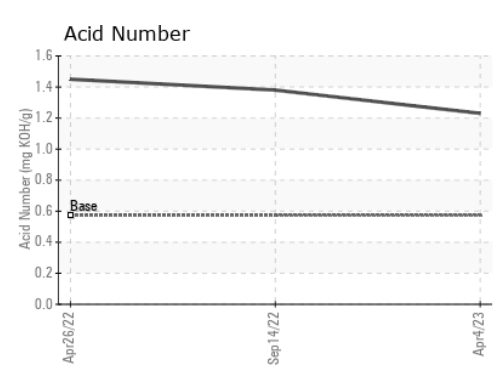
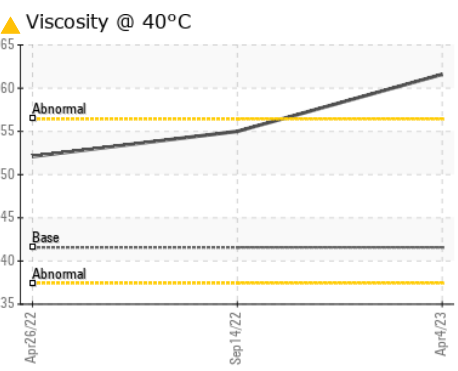
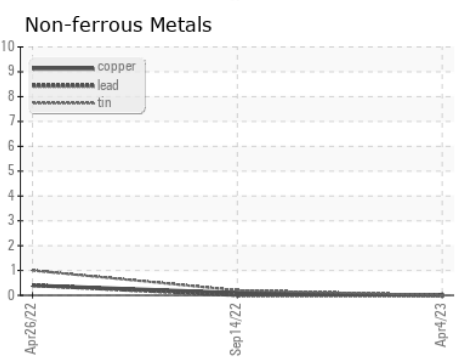
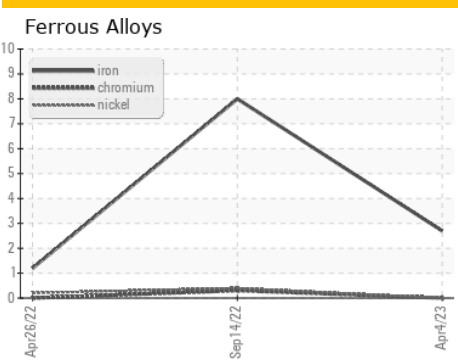


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	41.57 <span style="color: red;">▲ 61.6</span>	55.0	52.1

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCP05824146 **Received** : 19 Apr 2023  
**Lab Number** : 05824146 **Diagnosed** : 25 Apr 2023  
**Unique Number** : 10432229 **Diagnostician** : Jonathan Hester  
**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)