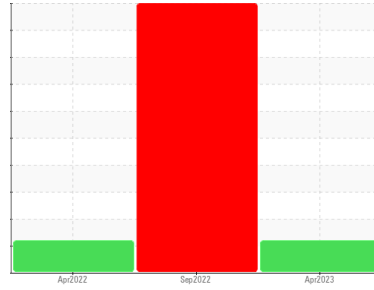


Area
PO-4010
 Machine Id
ELGI MSL061014 - CBRE BATTERY PLANT
 Component
Compressor

Sample Rating Trend

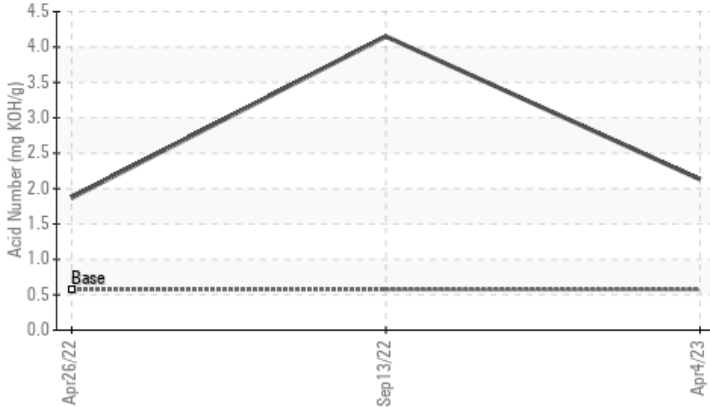


DEGRADATION



COMPONENT CONDITION SUMMARY

▲ Acid Number




RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	ABNORMAL
Acid Number (AN)	mg KOH/g	ASTM D8045	0.573	▲ 2.13	◆ 4.15	▲ 1.87

Customer Id: UCELGCHA
Sample No.: UCP05824145
Lab Number: 05824145
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

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	MISSED	Aug 15 2023	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	MISSED	Aug 15 2023	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

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

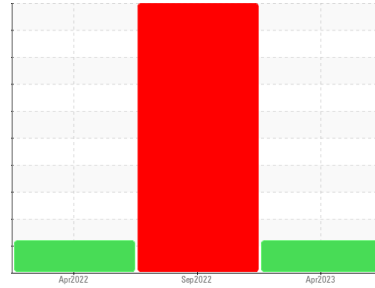


The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is at the top-end of the recommended limit.

[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. We recommend an early resample to monitor this condition.

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		UCP05824145	UCP05644963	UCP05585125
Sample Date	Client Info		04 Apr 2023	13 Sep 2022	26 Apr 2022
Machine Age	hrs	Client Info	12587	8132	5512
Oil Age	hrs	Client Info	0	0	5512
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	SEVERE	ABNORMAL

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	1	7
Barium	ppm	ASTM D5185m 0.4	2	0	3
Molybdenum	ppm	ASTM D5185m 0.5	0	0	0
Manganese	ppm	ASTM D5185m 0.4	<1	<1	<1
Magnesium	ppm	ASTM D5185m 0	17	<1	<1
Calcium	ppm	ASTM D5185m 0.3	814	0	2
Phosphorus	ppm	ASTM D5185m 1376	609	612	11
Zinc	ppm	ASTM D5185m 0	413	0	18
Sulfur	ppm	ASTM D5185m 320	2788	1089	471

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	2	354	<1
Sodium	ppm	ASTM D5185m	18	<1	41
Potassium	ppm	ASTM D5185m >20	14	<1	5

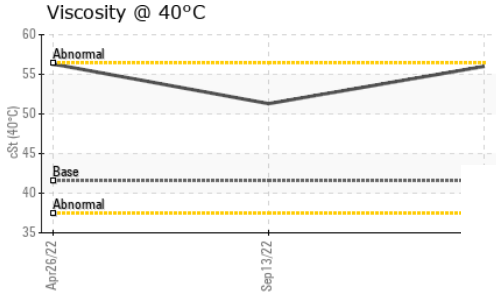
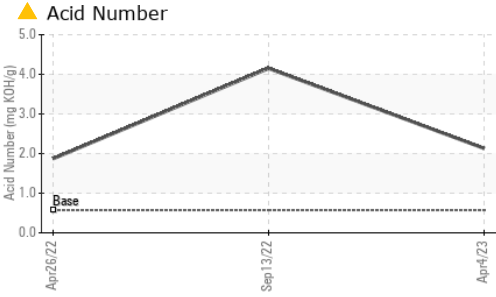
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.573	2.13	4.15	1.87

VISUAL

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

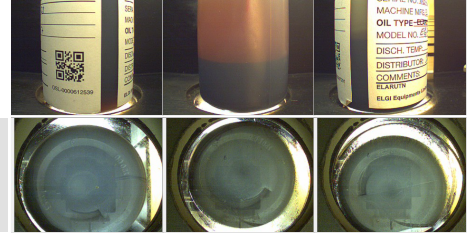
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	41.57	56.0	51.3	56.3

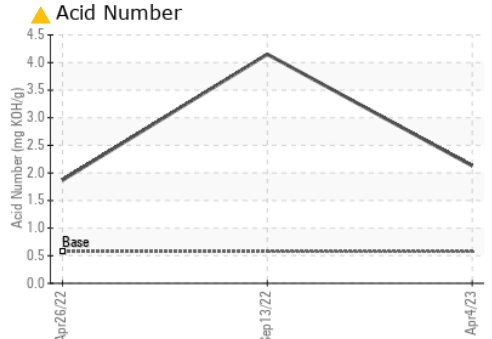
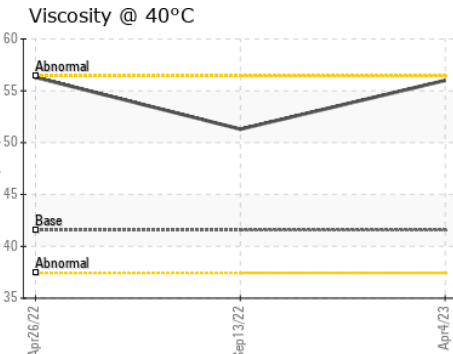
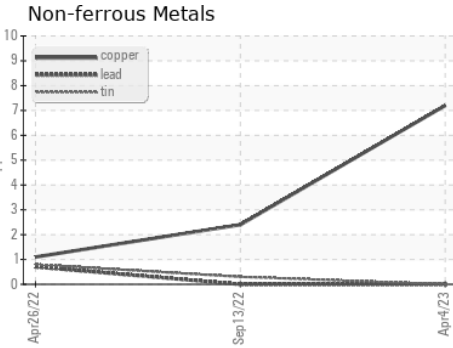
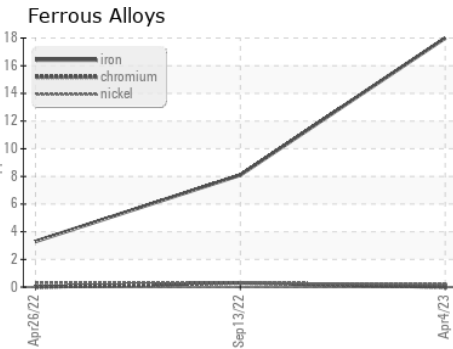
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCP05824145 **Received** : 19 Apr 2023
Lab Number : **05824145** **Diagnosed** : 21 Apr 2023
Unique Number : 10432228 **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)