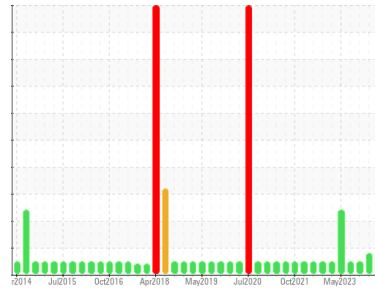




# OIL ANALYSIS REPORT

Sample Rating Trend



## ADDITIVES



Area

**5**

Machine Id

**5-3-362 Atox Tower Elevator**

Component

**Gearbox**

Fluid

**MOBIL SHC 630 (30 LTR)**

### DIAGNOSIS

#### Recommendation

We advise that you check all areas where contaminants can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Calcium and/or magnesium levels higher than normal indicating possible contamination with cement dust, advise investigate. There is no indication of any contamination in the oil.

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0925335</b>	WC0902033	WC0869878
Sample Date	Client Info		<b>09 Apr 2024</b>	14 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
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>	ATTENTION	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>61</b>	41	33
Iron	ppm	ASTM D5185(m) >200	<b>63</b>	46	25
Chromium	ppm	ASTM D5185(m) >15	<b>1</b>	1	0
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>8</b>	7	2
Lead	ppm	ASTM D5185(m) >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0.3	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m) 0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0.0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0.1	<b>5</b>	4	1
Calcium	ppm	ASTM D5185(m) 0.0	<b>135</b>	104	30
Phosphorus	ppm	ASTM D5185(m) 864	<b>298</b>	305	253
Zinc	ppm	ASTM D5185(m) 2.0	<b>&lt;1</b>	1	<1
Sulfur	ppm	ASTM D5185(m) 36	<b>350</b>	356	493
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

### CONTAMINANTS

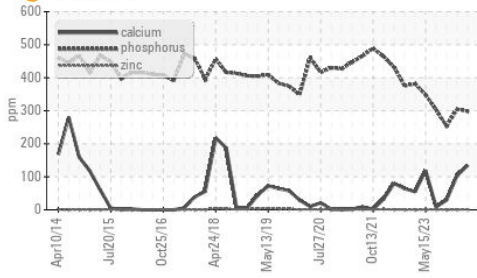
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>36</b>	30	9
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>3</b>	3	0

### FLUID DEGRADATION

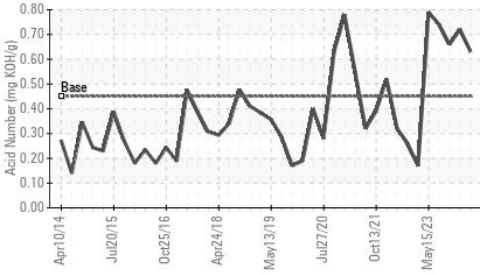
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.45	<b>0.63</b>	0.72	0.66

# OIL ANALYSIS REPORT

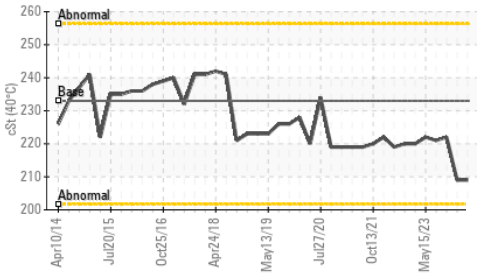
### Additives



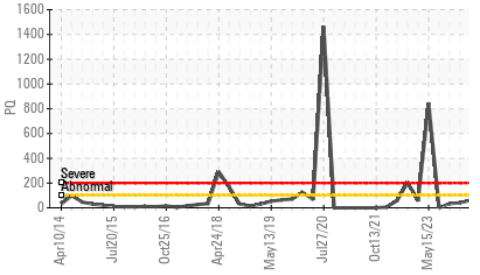
### Acid Number



### Viscosity @ 40°C



### PQ

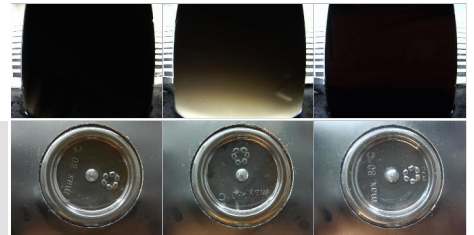


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	233	209	222

SAMPLE IMAGES	method	limit/base	current	history1	history2
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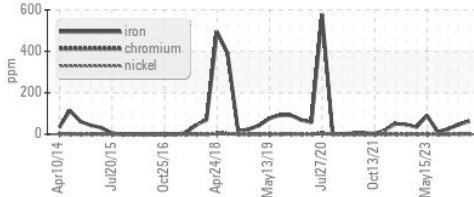
### Color



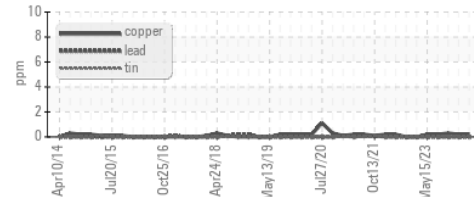
### Bottom

### GRAPHS

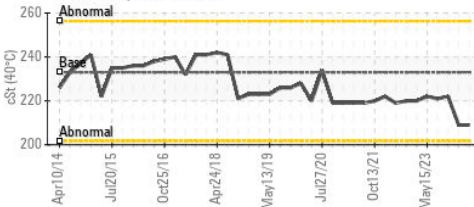
#### Ferrous Alloys



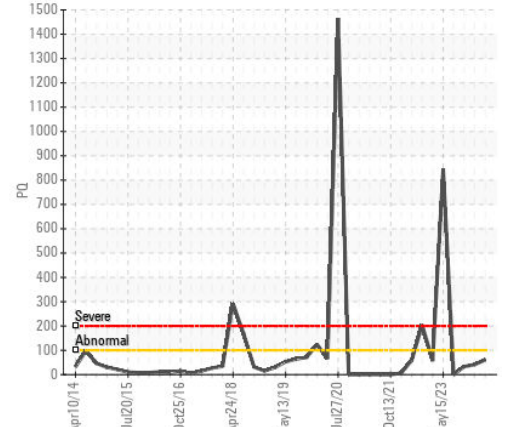
#### Non-ferrous Metals



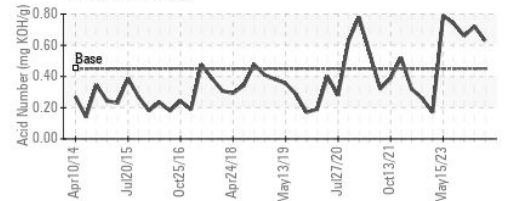
#### Viscosity @ 40°C



#### PQ



#### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925335 **Received** : 16 Apr 2024  
**Lab Number** : **02629384** **Tested** : 18 Apr 2024  
**Unique Number** : 5762516 **Diagnosed** : 18 Apr 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**ST. MARYS CEMENT CO.**  
 400 BOWMANVILLE AVENUE  
 BOWMANVILLE, ON  
 CA L1C 7B5  
 Contact: Lou Traiforos  
 lou.traiforos@vcimentos.com  
 T: (905)440-5874  
 F: (905)623-4695

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.