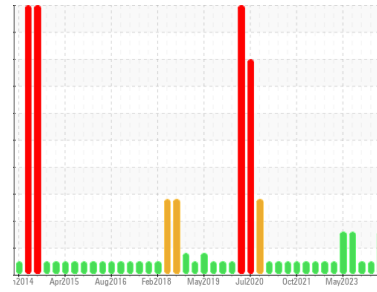




# OIL ANALYSIS REPORT

Sample Rating Trend



## ADDITIVES



Area

5

Machine Id

### 5-3-2201-NDE STAND-BY ATOX BLOWER

Component

Non-Drive End Blower

Fluid

MOBIL DTE OIL EXTRA HEAVY (5 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 | WC0925322   | WC0902020   | WC0869865   |
| Sample Date   | Client Info | 04 Apr 2024 | 15 Feb 2024 | 23 Nov 2023 |
| Machine Age   | hrs         | Client Info | 0           | 0           |
| Oil Age       | hrs         | Client Info | 0           | 0           |
| Oil Changed   | Client Info | N/A         | N/A         | N/A         |
| Sample Status |             | ATTENTION   | NORMAL      | NORMAL      |

## CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|------------|---------|----------|----------|
| Water  | WC Method  | NEG     | NEG      | NEG      |

## WEAR METALS

| method    | limit/base  | current           | history1 | history2 |    |
|-----------|-------------|-------------------|----------|----------|----|
| PQ        | ASTM D8184* | 0                 | 0        | 0        |    |
| Iron      | ppm         | ASTM D5185(m) >20 | 1        | 4        | 3  |
| Chromium  | ppm         | ASTM D5185(m) >20 | 0        | 0        | 0  |
| Nickel    | ppm         | ASTM D5185(m) >20 | 0        | 0        | <1 |
| Titanium  | ppm         | ASTM D5185(m)     | 0        | 0        | 0  |
| Silver    | ppm         | ASTM D5185(m)     | 0        | 0        | <1 |
| Aluminum  | ppm         | ASTM D5185(m) >20 | <1       | 2        | 1  |
| Lead      | ppm         | ASTM D5185(m) >20 | 0        | 0        | 0  |
| Copper    | ppm         | ASTM D5185(m) >20 | 0        | <1       | <1 |
| Tin       | ppm         | ASTM D5185(m) >20 | 0        | 0        | 0  |
| Antimony  | ppm         | ASTM D5185(m)     | 0        | <1       | 0  |
| Vanadium  | ppm         | ASTM D5185(m)     | 0        | 0        | 0  |
| Beryllium | ppm         | ASTM D5185(m)     | 0        | 0        | 0  |
| Cadmium   | ppm         | ASTM D5185(m)     | 0        | 0        | 0  |

## ADDITIVES

| method     | limit/base | current       | history1 | history2 |      |
|------------|------------|---------------|----------|----------|------|
| Boron      | ppm        | ASTM D5185(m) | 0        | <1       | <1   |
| Barium     | ppm        | ASTM D5185(m) | <1       | 0        | <1   |
| Molybdenum | ppm        | ASTM D5185(m) | 0        | 0        | 0    |
| Manganese  | ppm        | ASTM D5185(m) | 0        | 0        | 0    |
| Magnesium  | ppm        | ASTM D5185(m) | <1       | 1        | <1   |
| Calcium    | ppm        | ASTM D5185(m) | 111      | 22       | 19   |
| Phosphorus | ppm        | ASTM D5185(m) | 394      | 12       | 13   |
| Zinc       | ppm        | ASTM D5185(m) | 501      | 15       | 15   |
| Sulfur     | ppm        | ASTM D5185(m) | 8175     | 4293     | 4147 |
| Lithium    | ppm        | ASTM D5185(m) | <1       | <1       | <1   |

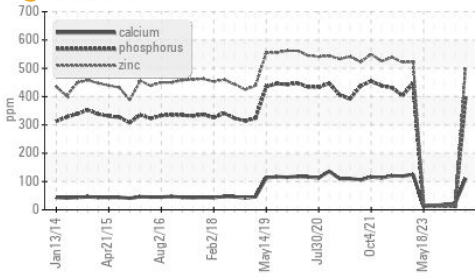
## CONTAMINANTS

| method    | limit/base | current           | history1 | history2 |    |
|-----------|------------|-------------------|----------|----------|----|
| Silicon   | ppm        | ASTM D5185(m) >15 | 2        | 6        | 6  |
| Sodium    | ppm        | ASTM D5185(m)     | 0        | 0        | <1 |
| Potassium | ppm        | ASTM D5185(m) >20 | <1       | 1        | 0  |

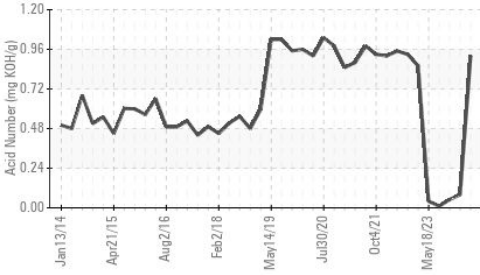
## FLUID DEGRADATION

| method           | limit/base | current    | history1 | history2 |      |
|------------------|------------|------------|----------|----------|------|
| Acid Number (AN) | mg KOH/g   | ASTM D974* | 0.92     | 0.08     | 0.05 |

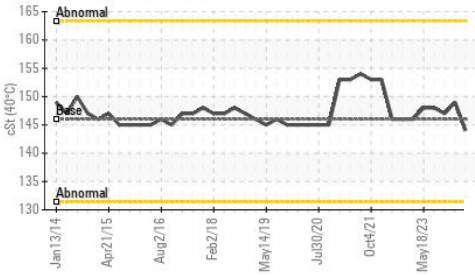
## Additives



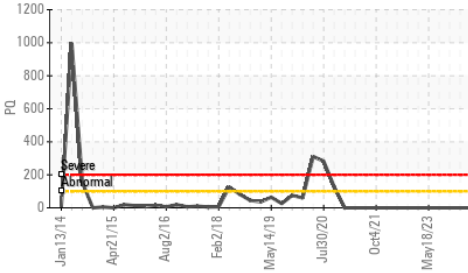
## Acid Number



## Viscosity @ 40°C



## PQ

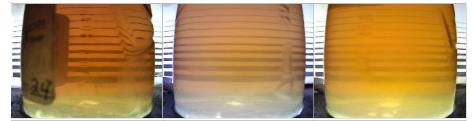


| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | Visual*    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | Visual*    | NONE    | NONE     | NONE     |
| Silt             | scalar | Visual*    | NONE    | 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*    | NEG     | NEG      | NEG      |
| Free Water       | scalar | Visual*    | NEG     | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 146     | 149      | 147      |

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

## Color

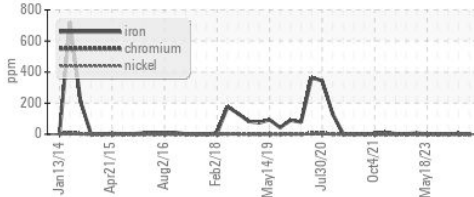


## Bottom

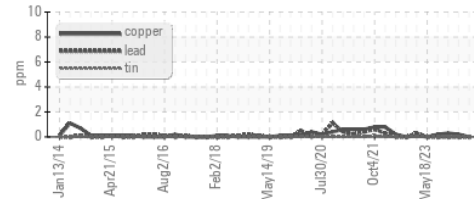


## GRAPHS

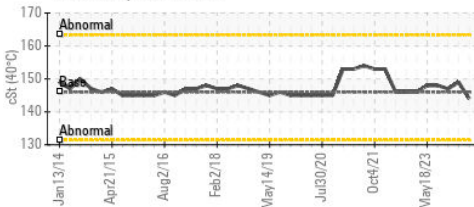
### Ferrous Alloys



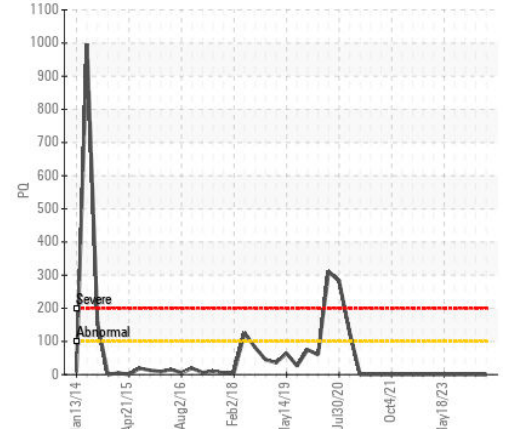
### Non-ferrous Metals



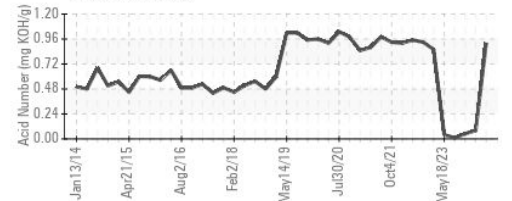
### Viscosity @ 40°C



### PQ



### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925322 **Received** : 16 Apr 2024  
**Lab Number** : 02629365 **Tested** : 17 Apr 2024  
**Unique Number** : 5762497 **Diagnosed** : 17 Apr 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**ST. MARYS CEMENT CO.**  
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 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.