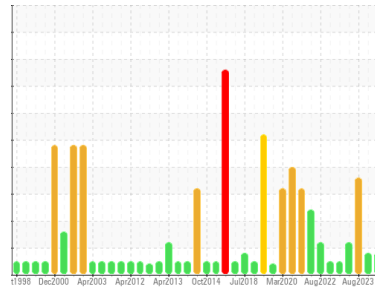




# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**PUMPHOUSE/CASTER SPRAY WATER PUMPS**  
 Machine Id  
**C - Caster Spray Water Pumps Gearbox System**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA HYDREX AW 100 (45 GAL)**

## DIAGNOSIS

**Recommendation**  
 Technician was unable to draw sample from the machine as unit as not running.

## SAMPLE INFORMATION

| method        | limit/base  | current            | history1    | history2    |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | <b>WC0968459</b>   | WC0898664   | WC0850120   |
| Sample Date   | Client Info | <b>17 Jul 2024</b> | 10 Jan 2024 | 16 Aug 2023 |
| Machine Age   | hrs         | Client Info        | 0           | 0           |
| Oil Age       | hrs         | Client Info        | 0           | 0           |
| Oil Changed   | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             | <b>ABNORMAL</b>    | ATTENTION   | ABNORMAL    |

## CONTAMINATION

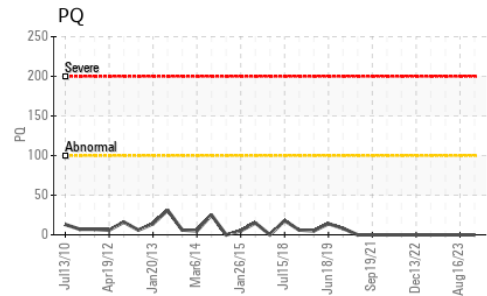
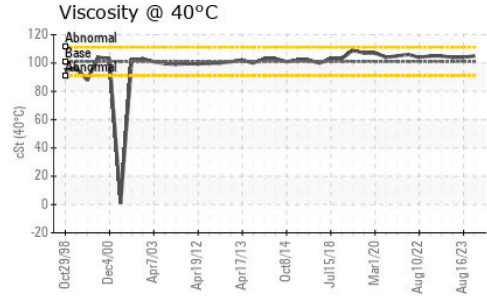
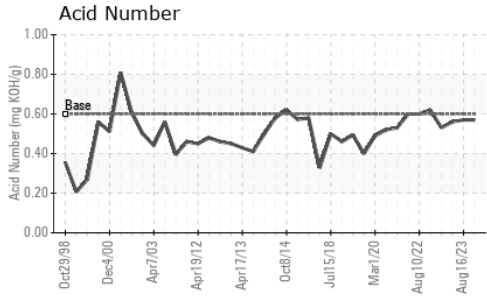
| method | limit/base   | current    | history1 | history2 |
|--------|--------------|------------|----------|----------|
| Water  | WC Method >5 | <b>NEG</b> | NEG      | NEG      |

## WEAR METALS

| method   | limit/base        | current            | history1 | history2 |    |
|----------|-------------------|--------------------|----------|----------|----|
| PQ       | ASTM D8184* >DFLT | ---                | 0        | 0        |    |
| Iron     | ppm               | ASTM D5185(m) >200 | ---      | 6        | 6  |
| Chromium | ppm               | ASTM D5185(m) >15  | ---      | 0        | 0  |
| Nickel   | ppm               | ASTM D5185(m) >15  | ---      | 0        | <1 |
| Titanium | ppm               | ASTM D5185(m)</    |          |          |    |



# OIL ANALYSIS REPORT



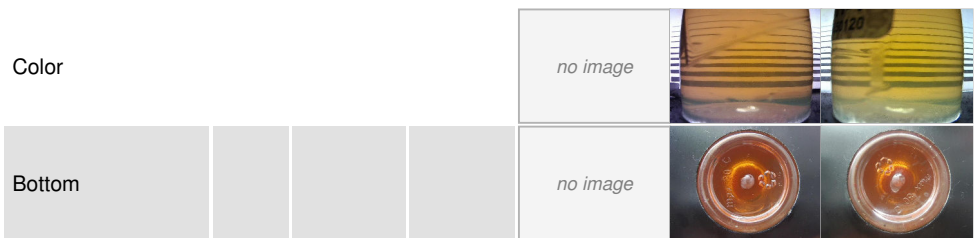
| FLUID CLEANLINESS | method       | limit/base | current | history1   | history2   |
|-------------------|--------------|------------|---------|------------|------------|
| Particles >4µm    | ASTM D7647   | >20000     | ---     | ● 20757    | ● 21414    |
| Particles >6µm    | ASTM D7647   | >5000      | ---     | ● 4883     | ● 5514     |
| Particles >14µm   | ASTM D7647   | >640       | ---     | ● 115      | ● 299      |
| Particles >21µm   | ASTM D7647   | >160       | ---     | ● 15       | ● 67       |
| Particles >38µm   | ASTM D7647   | >40        | ---     | ● 2        | ● 2        |
| Particles >71µm   | ASTM D7647   | >10        | ---     | ● 1        | ● 1        |
| Oil Cleanliness   | ISO 4406 (c) | >21/19/16  | ---     | ● 22/19/14 | ● 22/20/15 |

| FLUID DEGRADATION | method   | limit/base | current | history1 | history2 |      |
|-------------------|----------|------------|---------|----------|----------|------|
| Acid Number (AN)  | mg KOH/g | ASTM D974* | 0.60    | ---      | 0.57     | 0.57 |

| 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    | ---            | VLITE    | NONE    |
| Silt             | scalar | Visual*    | NONE    | ---            | NONE     | VLITE   |
| Debris           | scalar | Visual*    | NONE    | ---            | NONE     | NONE    |
| Sand/Dirt        | scalar | Visual*    | NONE    | ---            | NONE     | NONE    |
| Appearance       | scalar | Visual*    | NORML   | ▲ <b>NOOIL</b> | NORML    | ▲ WGOIL |
| Odor             | scalar | Visual*    | NORML   | ---            | NORML    | NORML   |
| Emulsified Water | scalar | Visual*    | >5      | ---            | NEG      | .2%     |
| Free Water       | scalar | Visual*    |         | ---            | NEG      | ▲ 1%    |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |     |
|------------------|--------|---------------|---------|----------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 101     | ---      | 105      | 104 |

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9     **STELCO - BOSC - Basic Oxygen Slab Caster**  
**Sample No.** : WC0968459     **Received** : 17 Jul 2024     2330 Regional Road #3, Door: BOSC8  
**Lab Number** : **02648547**     **Tested** : 17 Jul 2024     NANTICOKE, ON  
**Unique Number** : 5814099     **Diagnosed** : 18 Jul 2024 - Kevin Marson     CA N0A 1L0  
**Test Package** : TEST ( Additional Tests: ICP, KV40, PQ, PrtCount, Spat, TAN Auto, TAN Man ) Contact: Tom Walden  
 Thomas.Walden@stelco.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.     T: (519)587-4541  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.     F: (519)587-7702  
 Validity of results and interpretation are based on the sample and information as supplied.