



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Area

## Main Deck

Machine Id

## ARVA Crane Main Hoist (S/N 55173)

Component

## Gearbox

Fluid

## PETRO CANADA ENDURATEX EP 150 (6 GAL)

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0772094</b>   | WC0855478   | WC0700686   |
| Sample Date    |     | Client Info |           | <b>20 May 2024</b> | 28 Nov 2023 | 19 May 2023 |
| Machine Age    | hrs | Client Info |           | <b>6576</b>        | 6296        | 6052        |
| Oil Age        | hrs | Client Info |           | <b>544</b>         | 264         | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Changd      |
| Filter Changed |     | Client Info |           | <b>None</b>        | None        | None        |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |               |      |             |      |      |
|--------------|--------|---------------|------|-------------|------|------|
| PQ           |        | ASTM D8184*   |      | <b>0</b>    | 0    | 0    |
| Iron         | ppm    | ASTM D5185(m) | >150 | <b>3</b>    | 2    | 2    |
| Chromium     | ppm    | ASTM D5185(m) | >10  | <b>0</b>    | 0    | 0    |
| Nickel       | ppm    | ASTM D5185(m) | >10  | <b>0</b>    | 0    | <1   |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>    | 0    | 0    |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>    | <1   | 0    |
| Aluminum     | ppm    | ASTM D5185(m) | >5   | <b>0</b>    | 0    | 0    |
| Lead         | ppm    | ASTM D5185(m) | >65  | <b>0</b>    | 0    | 0    |
| Copper       | ppm    | ASTM D5185(m) | >80  | <b>0</b>    | <1   | 0    |
| Tin          | ppm    | ASTM D5185(m) | >8   | <b>0</b>    | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>    | 0    | 0    |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b> | NONE | NONE |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b> | NONE | NONE |

### CONTAMINATION

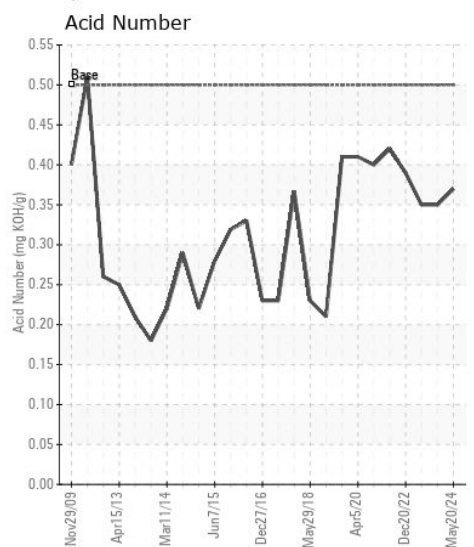
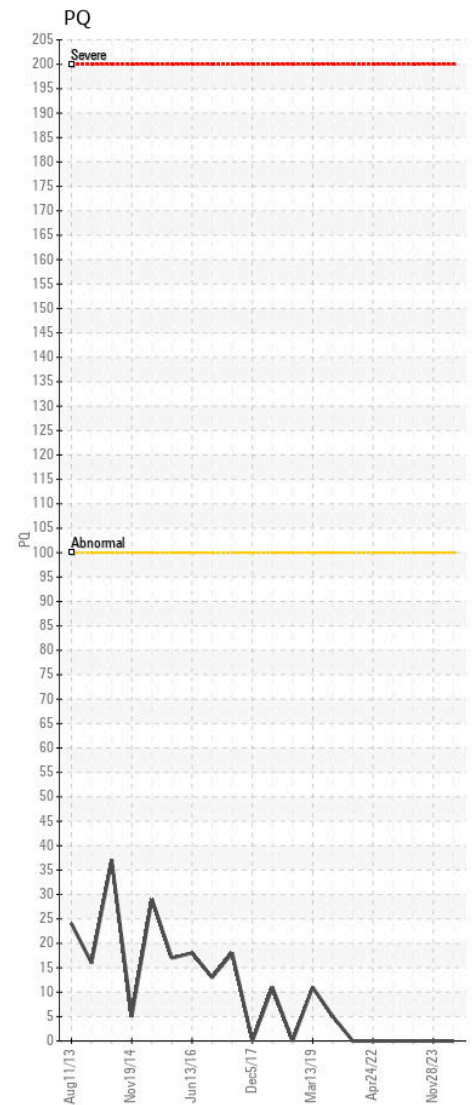
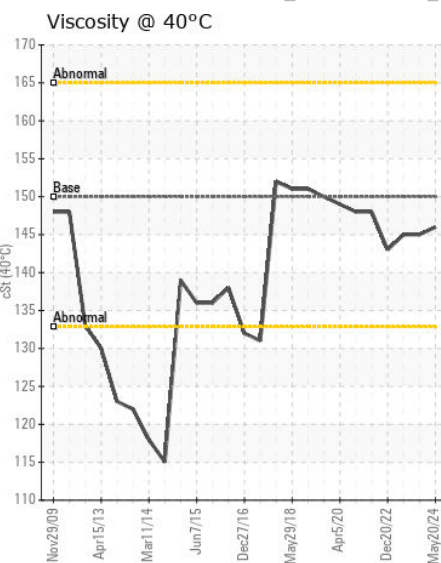
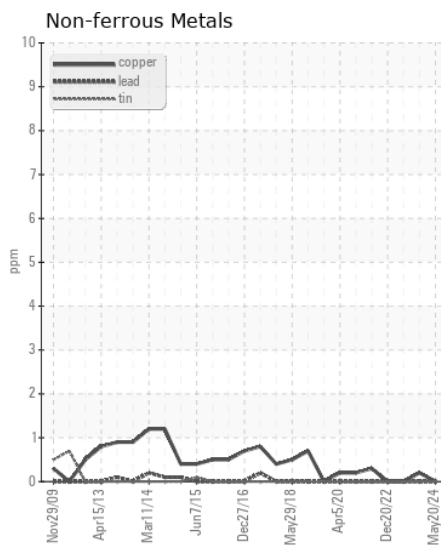
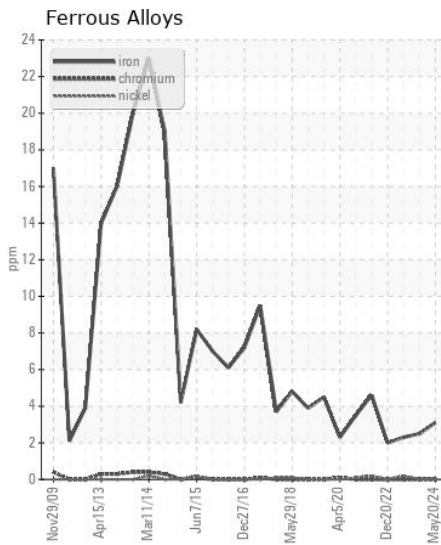
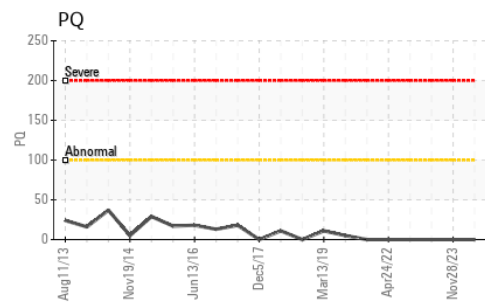
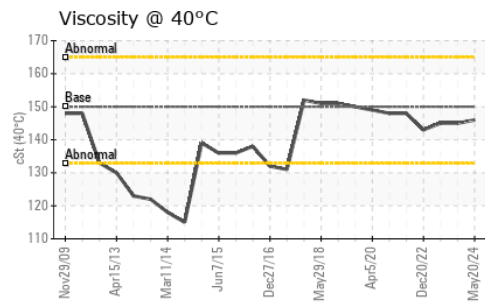
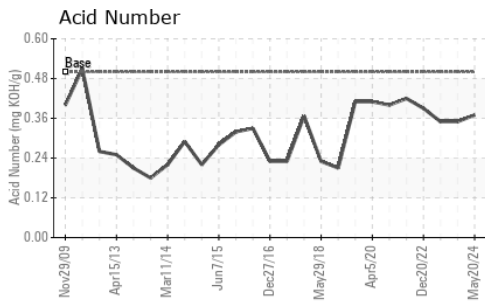
There is no indication of any contamination in the oil.

|                  |        |               |       |              |       |       |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185(m) | >20   | <b>0</b>     | <1    | <1    |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>0</b>     | 0     | <1    |
| Water            |        | WC Method     | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | Visual*       | NONE  | <b>VLITE</b> | NONE  | 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*       | >0.2  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |               |       |              |      |      |
|------------------|----------|---------------|-------|--------------|------|------|
| Sodium           | ppm      | ASTM D5185(m) |       | <b>&lt;1</b> | <1   | <1   |
| Boron            | ppm      | ASTM D5185(m) | 55    | <b>62</b>    | 63   | 64   |
| Barium           | ppm      | ASTM D5185(m) | 0     | <b>0</b>     | <1   | 0    |
| Molybdenum       | ppm      | ASTM D5185(m) | 0     | <b>0</b>     | 0    | <1   |
| Manganese        | ppm      | ASTM D5185(m) | 0     | <b>0</b>     | 0    | 0    |
| Magnesium        | ppm      | ASTM D5185(m) | 2     | <b>8</b>     | 7    | 6    |
| Calcium          | ppm      | ASTM D5185(m) | 6     | <b>8</b>     | 8    | 6    |
| Phosphorus       | ppm      | ASTM D5185(m) | 250   | <b>250</b>   | 249  | 280  |
| Zinc             | ppm      | ASTM D5185(m) | 3     | <b>17</b>    | 18   | 16   |
| Sulfur           | ppm      | ASTM D5185(m) | 7500  | <b>6792</b>  | 6872 | 7118 |
| Acid Number (AN) | mg KOH/g | ASTM D974*    | 0.5   | <b>0.37</b>  | 0.35 | 0.35 |
| Visc @ 40°C      | cSt      | ASTM D7279(m) | 150.0 | <b>146</b>   | 145  | 145  |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0772094 **Received** : 24 May 2024  
**Lab Number** : **02637542** **Tested** : 24 May 2024  
**Unique Number** : 5786704 **Diagnosed** : 24 May 2024 - Wes Davis  
**Test Package** : MAR 2 ( Additional Tests: TAN Man )

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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.