



# OIL ANALYSIS REPORT

|                 |           |
|-----------------|-----------|
| WEAR            | NORMAL    |
| CONTAMINATION   | ATTENTION |
| FLUID CONDITION | NORMAL    |

Machine Id  
**08150 MIRANDA DAVIT (S/N O/N 25081)**  
 Component  
**Port Hydraulic System**  
 Fluid  
**PETRO CANADA HYDREX AW 32 (320 LTR)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

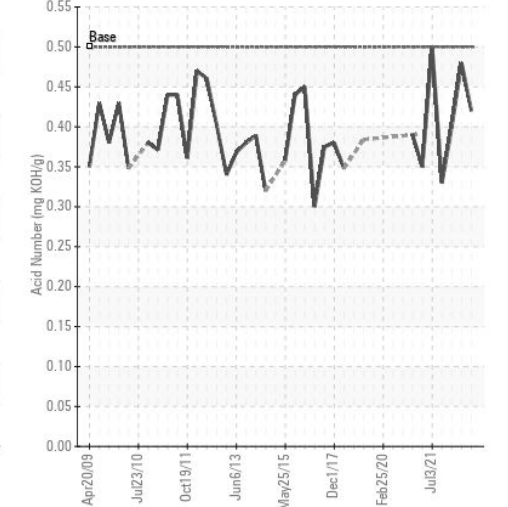
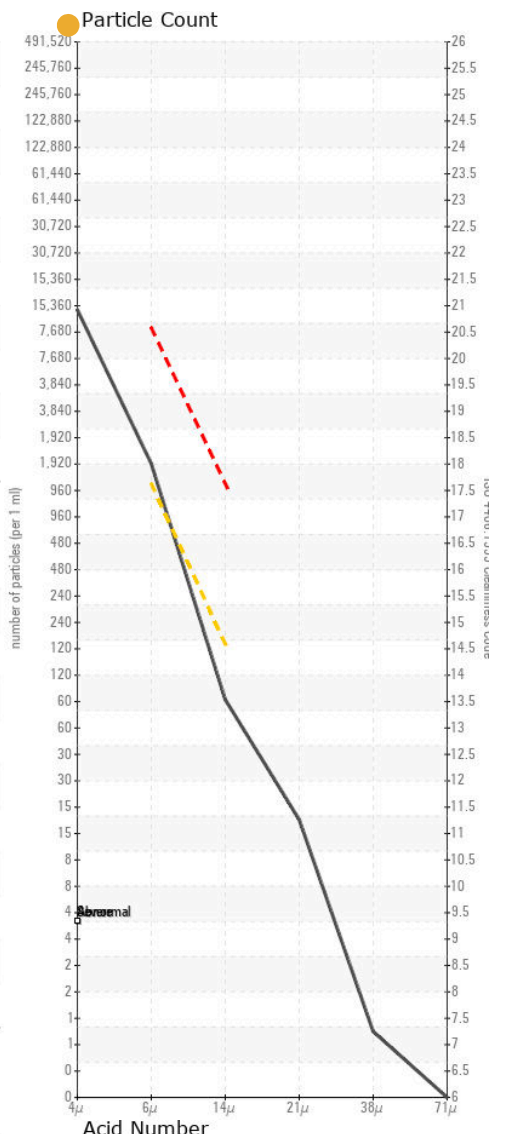
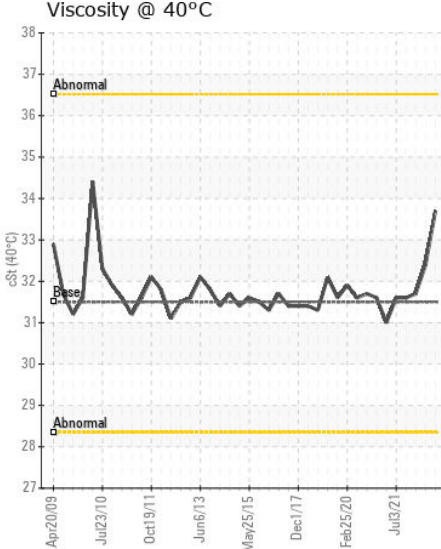
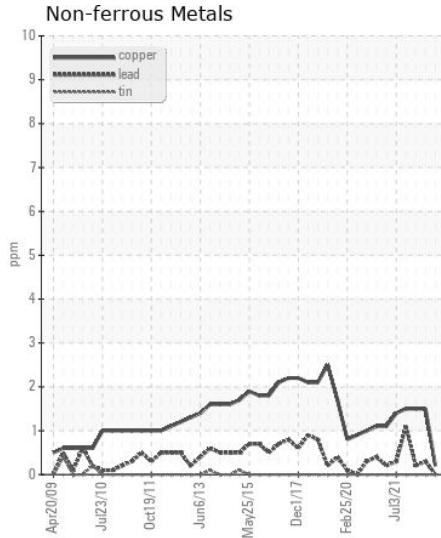
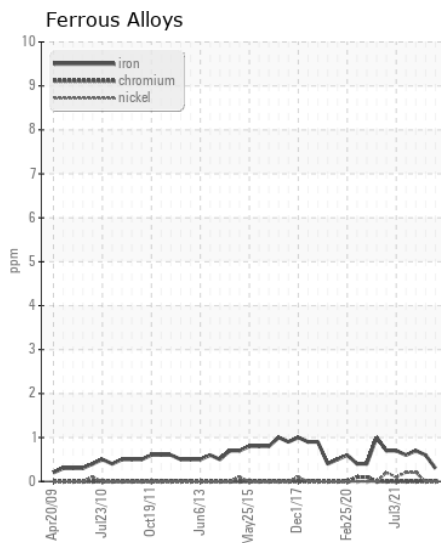
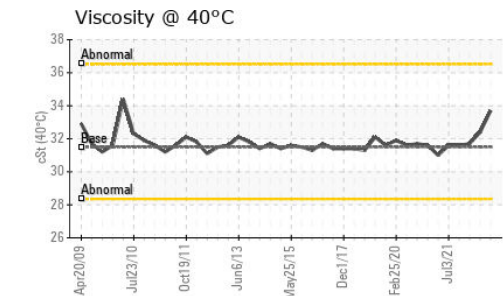
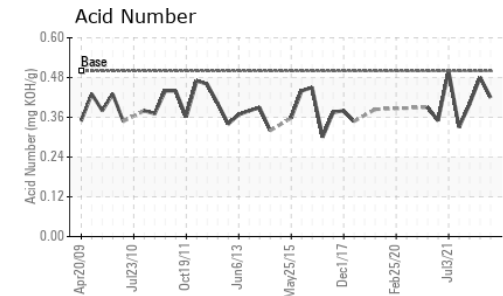
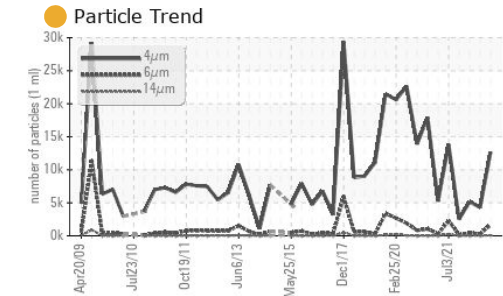
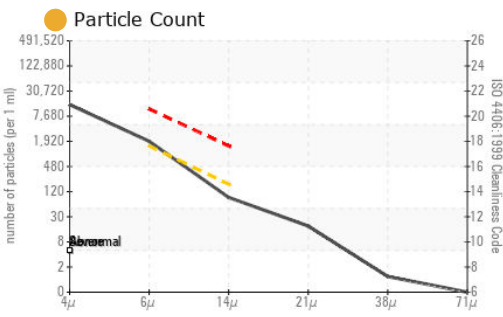
## CONTAMINATION

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

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

| Test             | UOM      | Method        | Limit/Abn | Current            | History1    | History2    |
|------------------|----------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number    |          | Client Info   |           | <b>WC0867274</b>   | WC0668726   | WC0635266   |
| Sample Date      |          | Client Info   |           | <b>14 May 2024</b> | 02 Apr 2022 | 05 Jan 2022 |
| Machine Age      | hrs      | Client Info   |           | <b>0</b>           | 0           | 0           |
| Oil Age          | hrs      | Client Info   |           | <b>0</b>           | 0           | 0           |
| Filter Age       | hrs      | Client Info   |           | <b>0</b>           | 0           | 0           |
| Oil Changed      |          | Client Info   |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Filter Changed   |          | Client Info   |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status    |          |               |           | <b>ATTENTION</b>   | NORMAL      | NORMAL      |
| Iron             | ppm      | ASTM D5185(m) | >20       | <b>&lt;1</b>       | <1          | <1          |
| 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>           | 0           | 0           |
| Aluminum         | ppm      | ASTM D5185(m) | >10       | <b>0</b>           | <1          | 0           |
| Lead             | ppm      | ASTM D5185(m) | >20       | <b>0</b>           | <1          | <1          |
| Copper           | ppm      | ASTM D5185(m) | >20       | <b>&lt;1</b>       | 2           | 2           |
| Tin              | ppm      | ASTM D5185(m) | >10       | <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        |
| Silicon          | ppm      | ASTM D5185(m) | >15       | <b>&lt;1</b>       | 1           | 1           |
| Potassium        | ppm      | ASTM D5185(m) | >20       | <b>0</b>           | 1           | 1           |
| Water            |          | WC Method     | >0.05     | <b>NEG</b>         | NEG         | NEG         |
| Particles >4µm   |          | ASTM D7647    |           | <b>12660</b>       | 4282        | 5152        |
| Particles >6µm   |          | ASTM D7647    | >1300     | <b>1687</b>        | 297         | 440         |
| Particles >14µm  |          | ASTM D7647    | >160      | <b>77</b>          | 28          | 32          |
| Particles >21µm  |          | ASTM D7647    | >40       | <b>16</b>          | 8           | 6           |
| Particles >38µm  |          | ASTM D7647    | >10       | <b>1</b>           | 0           | 0           |
| Particles >71µm  |          | ASTM D7647    | >3        | <b>0</b>           | 0           | 0           |
| Oil Cleanliness  |          | ISO 4406 (c)  | >-/17/14  | <b>21/18/13</b>    | 19/15/12    | 20/16/12    |
| Silt             | scalar   | Visual*       | NONE      | <b>NONE</b>        | NONE        | NONE        |
| Debris           | scalar   | Visual*       | NONE      | <b>NONE</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*       | >0.05     | <b>NEG</b>         | NEG         | NEG         |
| Sodium           | ppm      | ASTM D5185(m) |           | <b>0</b>           | <1          | <1          |
| Boron            | ppm      | ASTM D5185(m) | 0         | <b>&lt;1</b>       | <1          | <1          |
| Barium           | ppm      | ASTM D5185(m) | 0         | <b>0</b>           | 0           | 0           |
| Molybdenum       | ppm      | ASTM D5185(m) | 0         | <b>0</b>           | 0           | 0           |
| Manganese        | ppm      | ASTM D5185(m) | 0         | <b>0</b>           | 0           | 0           |
| Magnesium        | ppm      | ASTM D5185(m) | 0         | <b>&lt;1</b>       | <1          | <1          |
| Calcium          | ppm      | ASTM D5185(m) | 50        | <b>52</b>          | 63          | 67          |
| Phosphorus       | ppm      | ASTM D5185(m) | 330       | <b>333</b>         | 322         | 335         |
| Zinc             | ppm      | ASTM D5185(m) | 430       | <b>419</b>         | 407         | 428         |
| Sulfur           | ppm      | ASTM D5185(m) | 760       | <b>4908</b>        | 750         | 804         |
| Acid Number (AN) | mg KOH/g | ASTM D974*    | 0.50      | <b>0.42</b>        | 0.48        | 0.40        |
| Visc @ 40°C      | cSt      | ASTM D7279(m) | 31.5      | <b>33.7</b>        | 32.4        | 31.7        |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0867274  
**Lab Number** : 02636357  
**Unique Number** : 5785519  
**Test Package** : MAR 2  
**Received** : 17 May 2024  
**Tested** : 21 May 2024  
**Diagnosed** : 21 May 2024 - Wes Davis

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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.