

## **PROBLEM SUMMARY**

## Sample Rating Trend



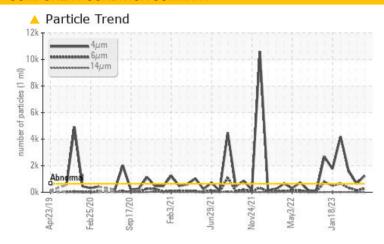
# CRM74

## **ROLL CHANGING CART (S/N 16-2400-1010)**

**Hydraulic System** 

AW HYDRAULIC OIL ISO 46 (--- QTS)

## **COMPONENT CONDITION SUMMARY**



## **RECOMMENDATION**

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

| PROBLEMATIC TEST RESULTS |              |           |                 |                  |               |  |  |  |
|--------------------------|--------------|-----------|-----------------|------------------|---------------|--|--|--|
| Sample Status            |              |           | ATTENTION       | ATTENTION        | ABNORMAL      |  |  |  |
| Particles >4µm           | ASTM D7647   | >640      | <u> </u>        | <u></u> 655      | <u>▲</u> 1627 |  |  |  |
| Particles >6µm           | ASTM D7647   | >160      | <b>276</b>      | 145              | <b>△</b> 336  |  |  |  |
| Oil Cleanliness          | ISO 4406 (c) | >16/14/11 | <b>17/15/10</b> | <b>△</b> 17/14/9 | ▲ 18/16/11    |  |  |  |

Customer Id: OUTCALAL **Sample No.:** RP0035518 Lab Number: 05874981 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

### **RECOMMENDED ACTIONS**

| Action               | Status | Date        | Done By | Description   |
|----------------------|--------|-------------|---------|---|
| Change Filter        | MISSED | Jul 21 2023 | ?       | We recommend you service the filters on this component.   |
| Alert                | MISSED | Jul 21 2023 | ?       | Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. |
| Information Required | MISSED | Jul 21 2023 | ?       | Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.  |

## HISTORICAL DIAGNOSIS

ISO



## 18 May 2023 Diag: Wes Davis Little or no information is provide

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 07 Apr 2023 Diag: Doug Bogart

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 08 Feb 2023 Diag: Don Baldridge

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





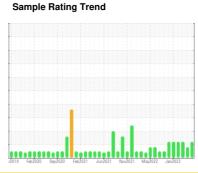
## **OIL ANALYSIS REPORT**

# CRM74

## **ROLL CHANGING CART (S/N 16-2400-1010)**

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 46 (--- QTS)** 





## **DIAGNOSIS**

### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

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

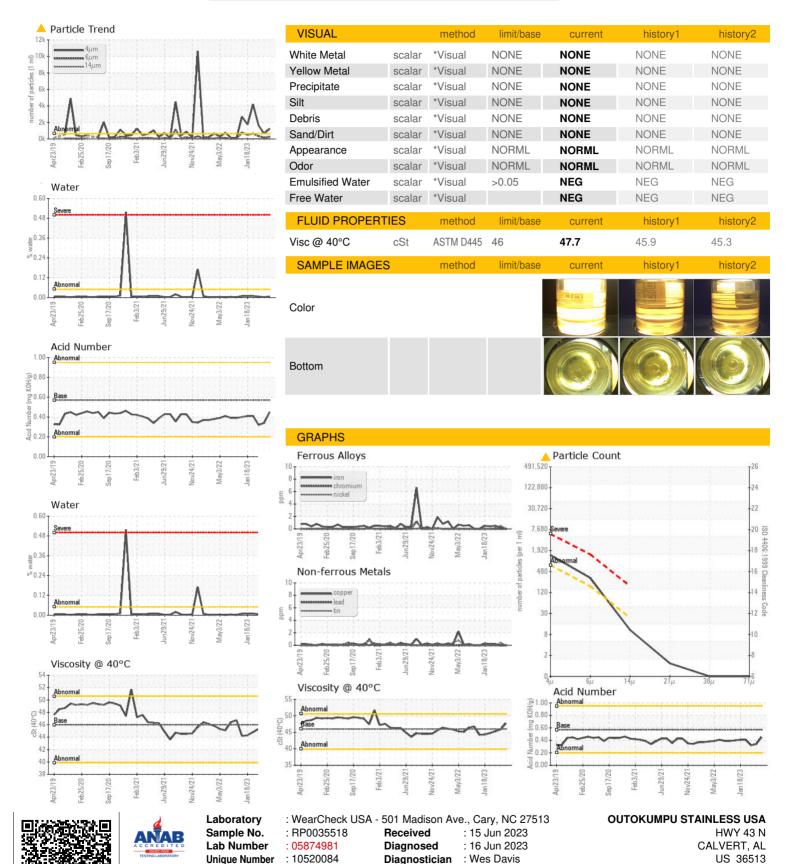
## **Fluid Condition**

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

| SAMPLE INFORM    | MATION   | method       | limit/base | current         | history1         | history2      |
|------------------|----------|--------------|------------|-----------------|------------------|---------------|
| Sample Number    |          | Client Info  |            | RP0035518       | RP0034450        | RP0031195     |
| Sample Date      |          | Client Info  |            | 14 Jun 2023     | 18 May 2023      | 07 Apr 2023   |
| Machine Age      | hrs      | Client Info  |            | 0               | 0                | 0             |
| Oil Age          | hrs      | Client Info  |            | 0               | 0                | 0             |
| Oil Changed      |          | Client Info  |            | N/A             | N/A              | N/A           |
| Sample Status    |          |              |            | ATTENTION       | ATTENTION        | ABNORMAL      |
| WEAR METALS      |          | method       | limit/base | current         | history1         | history2      |
| Iron             | ppm      | ASTM D5185m  | >20        | 0               | <1               | <1            |
| Chromium         | ppm      | ASTM D5185m  | >20        | 0               | 0                | 0             |
| Nickel           | ppm      | ASTM D5185m  | >20        | 0               | <1               | <1            |
| Titanium         | ppm      | ASTM D5185m  |            | 0               | 0                | 0             |
| Silver           | ppm      | ASTM D5185m  |            | 0               | 0                | 0             |
| Aluminum         | ppm      | ASTM D5185m  | >20        | <1              | 0                | 0             |
| Lead             | ppm      | ASTM D5185m  | >20        | 0               | 0                | 0             |
| Copper           | ppm      | ASTM D5185m  | >20        | 0               | 0                | <1            |
| Tin              | ppm      | ASTM D5185m  | >20        | 0               | <1               | 0             |
| Vanadium         | ppm      | ASTM D5185m  |            | 0               | 0                | 0             |
| Cadmium          | ppm      | ASTM D5185m  |            | 0               | 0                | 0             |
| ADDITIVES        |          | method       | limit/base | current         | history1         | history2      |
| Boron            | ppm      | ASTM D5185m  | 5          | 0               | 0                | 0             |
| Barium           | ppm      | ASTM D5185m  | 5          | 0               | 0                | 2             |
| Molybdenum       | ppm      | ASTM D5185m  | 5          | 0               | <1               | <1            |
| Manganese        | ppm      | ASTM D5185m  |            | 0               | <1               | 0             |
| Magnesium        | ppm      | ASTM D5185m  | 25         | 2               | 0                | 0             |
| Calcium          | ppm      | ASTM D5185m  | 200        | 59              | 51               | 53            |
| Phosphorus       | ppm      | ASTM D5185m  | 300        | 345             | 349              | 343           |
| Zinc             | ppm      | ASTM D5185m  | 370        | 431             | 451              | 450           |
| CONTAMINANTS     |          | method       | limit/base | current         | history1         | history2      |
| Silicon          | ppm      | ASTM D5185m  | >15        | 2               | 2                | 3             |
| Sodium           | ppm      | ASTM D5185m  |            | 0               | 1                | 0             |
| Potassium        | ppm      | ASTM D5185m  | >20        | 0               | 1                | <1            |
| Water            | %        | ASTM D6304   | >0.05      | 0.006           | 0.003            | 0.006         |
| ppm Water        | ppm      | ASTM D6304   | >500       | 61.7            | 37.6             | 60.9          |
| FLUID CLEANLIN   | IESS     | method       | limit/base | current         | history1         | history2      |
| Particles >4µm   |          | ASTM D7647   | >640       | <b>1242</b>     | <u></u> 655      | <u>▲</u> 1627 |
| Particles >6µm   |          | ASTM D7647   | >160       | <u>^</u> 276    | 145              | ▲ 336         |
| Particles >14μm  |          | ASTM D7647   | >20        | 9               | 4                | 19            |
| Particles >21µm  |          | ASTM D7647   | >4         | 1               | 1                | 5             |
| Particles >38μm  |          | ASTM D7647   | >3         | 0               | 0                | 0             |
| Particles >71μm  |          | ASTM D7647   | >3         | 0               | 0                | 0             |
| Oil Cleanliness  |          | ISO 4406 (c) | >16/14/11  | <b>17/15/10</b> | <b>▲</b> 17/14/9 | ▲ 18/16/11    |
| FLUID DEGRADA    | TION     | method       | limit/base | current         | history1         | history2      |
| Acid Number (AN) | mg KOH/g | ASTM D8045   | 0.57       | 0.45            | 0.34             | 0.32          |



## **OIL ANALYSIS REPORT**



Certificate L2367

Test Package

: IND 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact: MARIO JOHNSON

Mario.johnson@outokumpu.com

F: x:

T: (251)321-4105