



# OIL ANALYSIS REPORT

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

Machine Id  
**24**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 32 (49 GAL)**

## RECOMMENDATION

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

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | WC0962556   | ---      | ---      |
| Sample Date    |     | Client Info |           | 08 Jul 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 6642        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 6642        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 6642        | ---      | ---      |
| Oil Changed    |     | Client Info |           | Not Changd  | ---      | ---      |
| Filter Changed |     | Client Info |           | Not Changd  | ---      | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >20  | 11   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <1   | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >20  | 7    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >20  | 0    | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

## CONTAMINATION

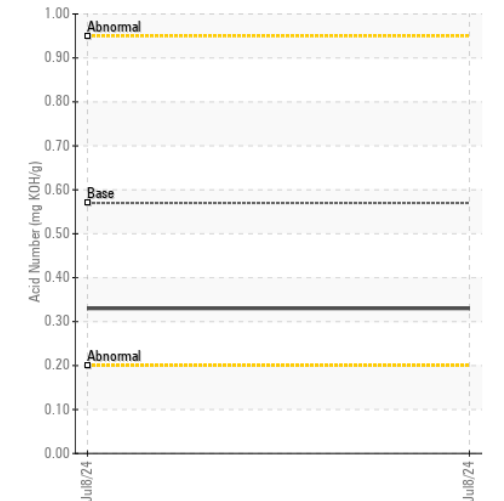
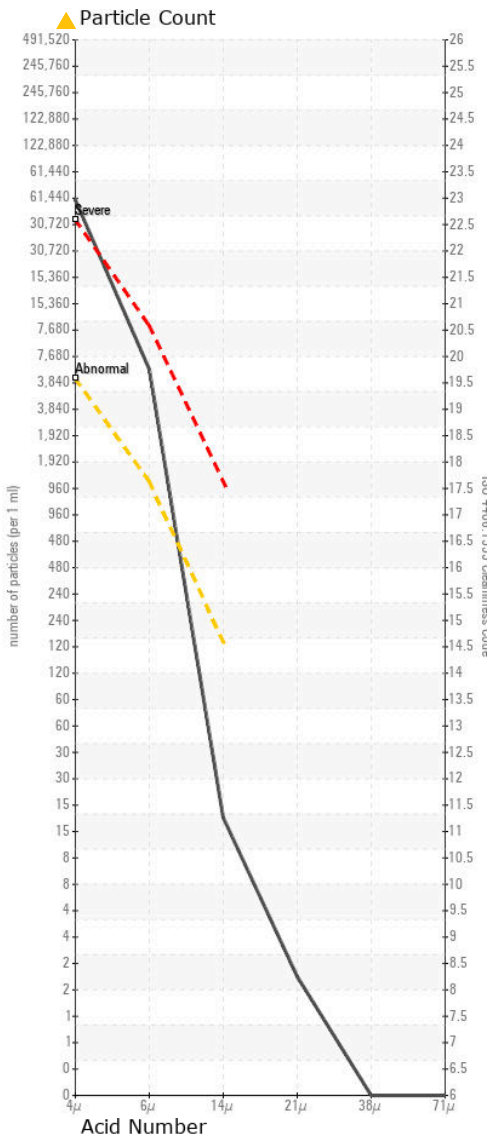
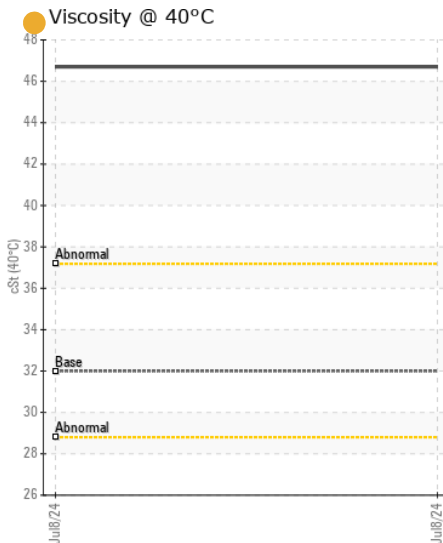
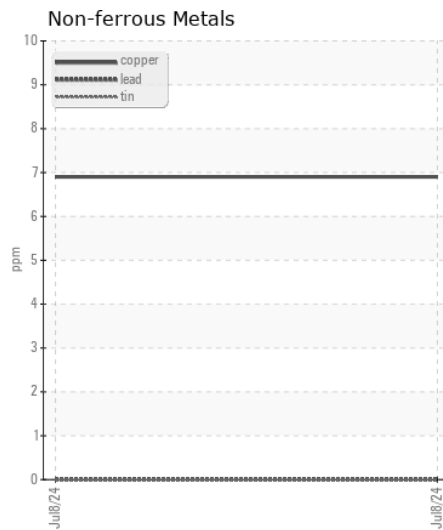
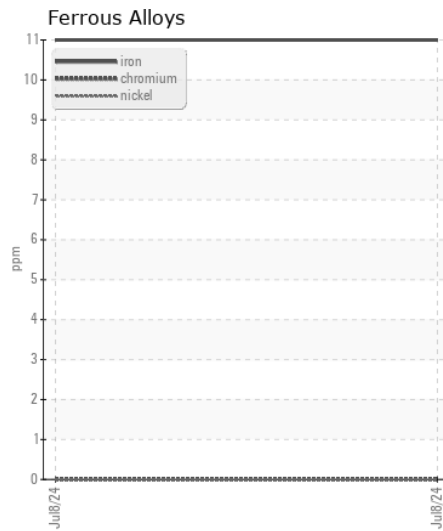
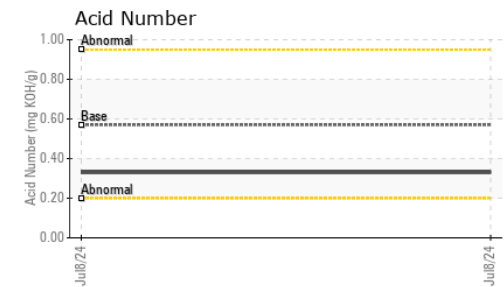
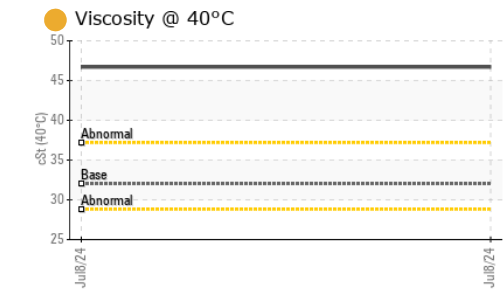
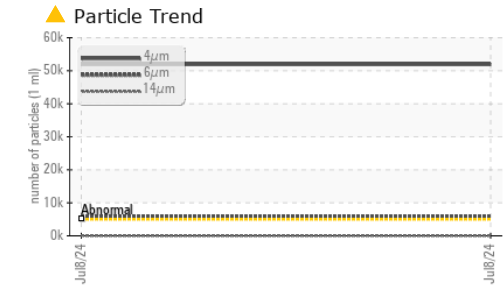
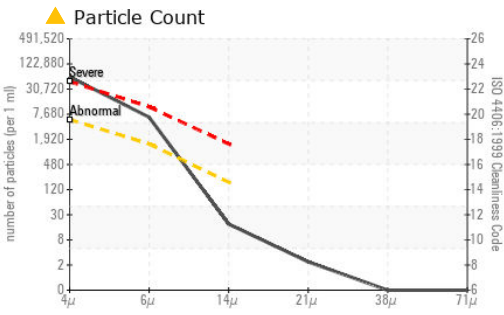
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

|                  |        |              |           |            |     |     |
|------------------|--------|--------------|-----------|------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >15       | 3          | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | 0          | --- | --- |
| Water            |        | WC Method    | >0.05     | NEG        | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >5000     | ▲ 51926    | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >1300     | ▲ 5655     | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >160      | 16         | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >40       | 2          | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >10       | 0          | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >3        | 0          | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | ▲ 23/20/11 | --- | --- |
| Silt             | scalar | *Visual      | NONE      | NONE       | --- | --- |
| Debris           | scalar | *Visual      | NONE      | NONE       | --- | --- |
| Sand/Dirt        | scalar | *Visual      | NONE      | NONE       | --- | --- |
| Appearance       | scalar | *Visual      | NORML     | NORML      | --- | --- |
| Odor             | scalar | *Visual      | NORML     | NORML      | --- | --- |
| Emulsified Water | scalar | *Visual      | >0.05     | NEG        | --- | --- |

## FLUID CONDITION

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

|                  |          |             |      |        |     |     |
|------------------|----------|-------------|------|--------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |      | 2      | --- | --- |
| Boron            | ppm      | ASTM D5185m | 5    | 3      | --- | --- |
| Barium           | ppm      | ASTM D5185m | 5    | 0      | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m | 5    | 3      | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | 0      | --- | --- |
| Magnesium        | ppm      | ASTM D5185m | 25   | 25     | --- | --- |
| Calcium          | ppm      | ASTM D5185m | 200  | 121    | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m | 300  | 334    | --- | --- |
| Zinc             | ppm      | ASTM D5185m | 370  | 417    | --- | --- |
| Sulfur           | ppm      | ASTM D5185m | 2500 | 3502   | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 0.57 | 0.33   | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 32   | ● 46.7 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0962556 Received : 12 Jul 2024  
 Lab Number : 06234797 Tested : 15 Jul 2024  
 Unique Number : 11123631 Diagnosed : 15 Jul 2024 - Don Baldrige  
 Test Package : CONST

**NJC SCRAP METAL**  
 34 MOFFITT BLVD  
 BAY SHORE, NY  
 US 11706  
 Contact: JOHN COHEN

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)

T:  
F: