



# OIL ANALYSIS REPORT

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

Machine Id  
**SP**  
Component  
**Hydraulic System**  
Fluid  
**{not provided} (--- QTS)**

## RECOMMENDATION

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

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | WC06124925  | ---      | ---      |
| Sample Date    |     | Client Info |           | 19 Mar 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 0           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | N/A         | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ---      | ---      |

## WEAR

All component wear rates are normal.

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

## CONTAMINATION

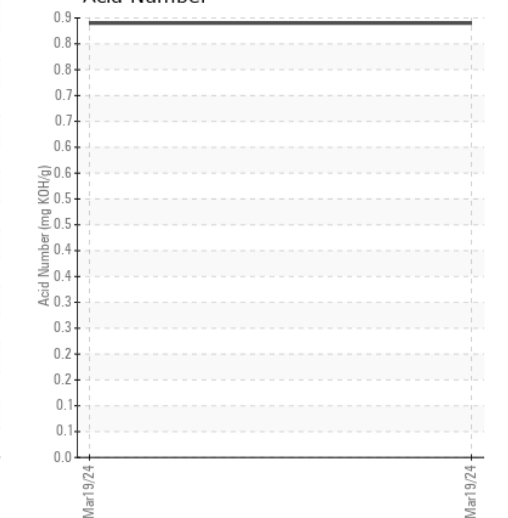
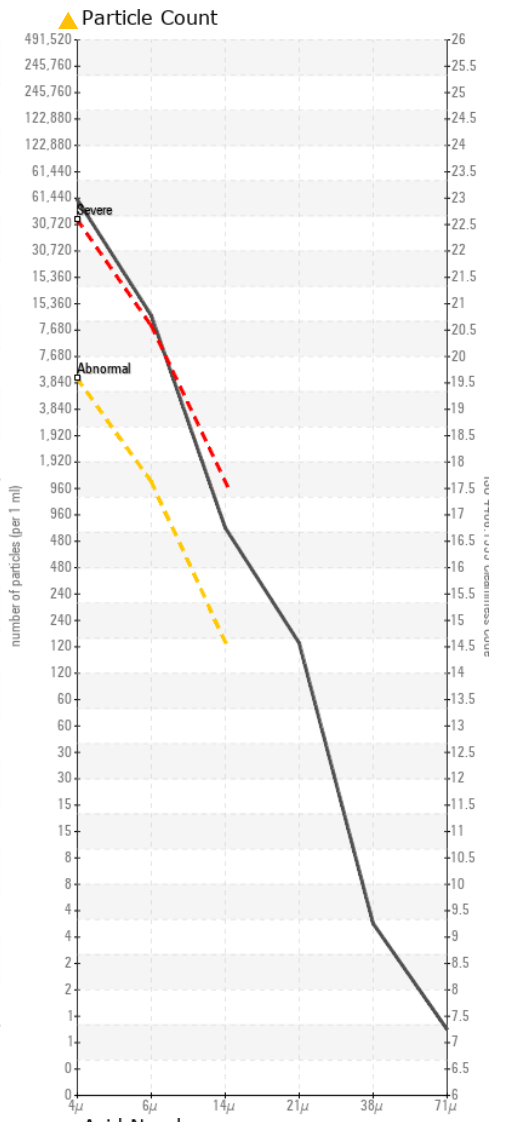
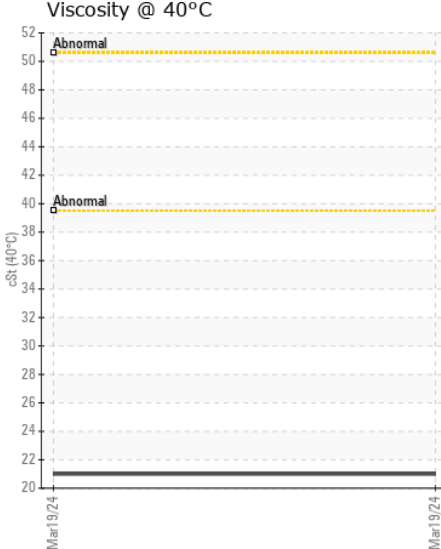
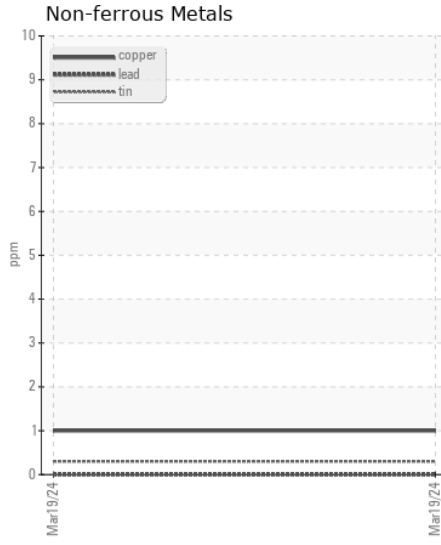
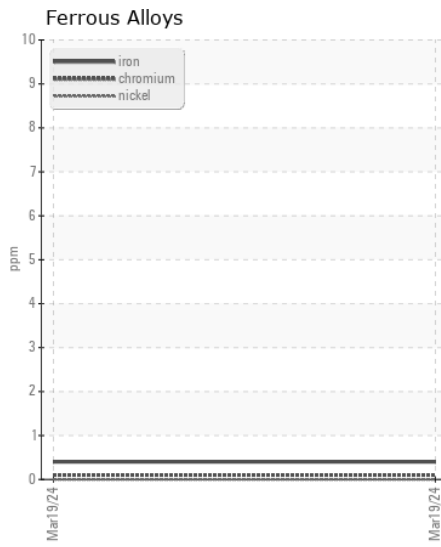
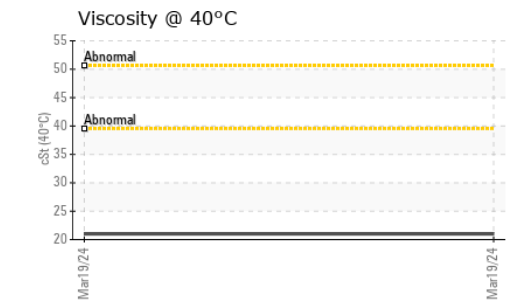
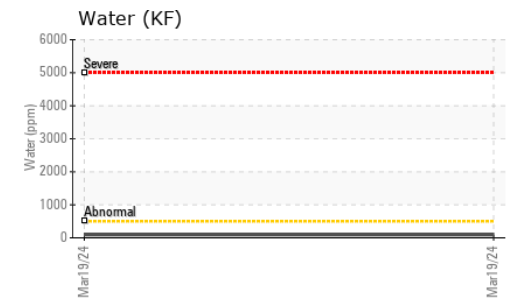
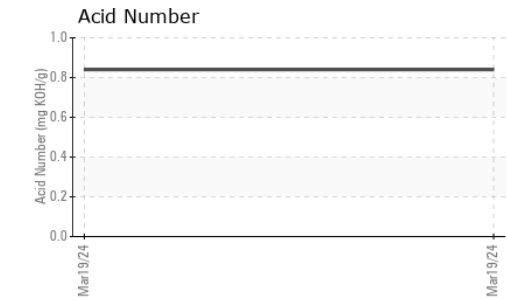
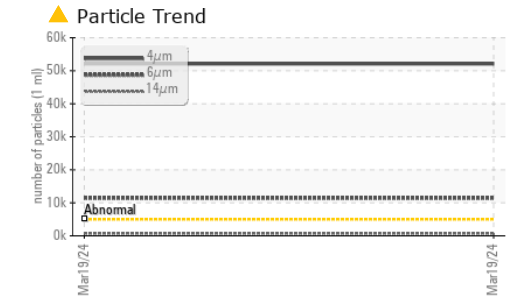
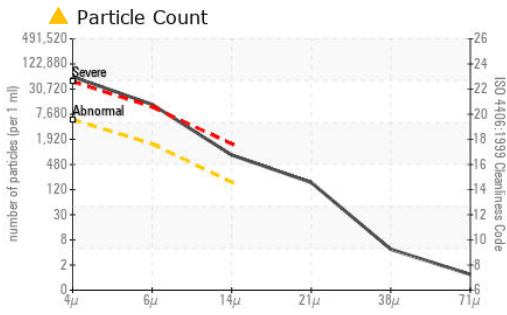
There is a high amount of particulates present in the oil.

|                  |        |              |           |            |     |     |
|------------------|--------|--------------|-----------|------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >15       | 1          | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | 0          | --- | --- |
| Water            | %      | ASTM D6304   | >0.05     | 0.009      | --- | --- |
| ppm Water        | ppm    | ASTM D6304   | >500      | 94         | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >5000     | ▲ 52094    | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >1300     | ▲ 11443    | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >160      | ▲ 711      | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >40       | ▲ 157      | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >10       | 4          | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >3        | 1          | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | ▲ 23/21/17 | --- | --- |
| 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

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

|                  |          |             |  |      |     |     |
|------------------|----------|-------------|--|------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |  | 4    | --- | --- |
| Boron            | ppm      | ASTM D5185m |  | 2    | --- | --- |
| Barium           | ppm      | ASTM D5185m |  | 0    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |  | <1   | --- | --- |
| Manganese        | ppm      | ASTM D5185m |  | <1   | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |  | 0    | --- | --- |
| Calcium          | ppm      | ASTM D5185m |  | 6    | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m |  | 269  | --- | --- |
| Zinc             | ppm      | ASTM D5185m |  | 5    | --- | --- |
| Sulfur           | ppm      | ASTM D5185m |  | 4425 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |  | 0.84 | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   |  | 21.0 | --- | --- |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06124925 **Received** : 21 Mar 2024  
**Lab Number** : 06124925 **Tested** : 22 Mar 2024  
**Unique Number** : 10939076 **Diagnosed** : 24 Mar 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

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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)