MOB II WEAR CHECK

# OIL ANALYSIS REPORT

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

Machine Id
## KUBOTA M7-131 10034
Component
## Hydraulic System
Fluid
## {not provided} (--- GAL)

## RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80 Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

## WEAR

Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

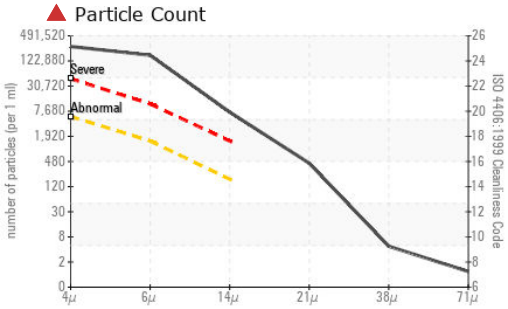
## CONTAMINATION

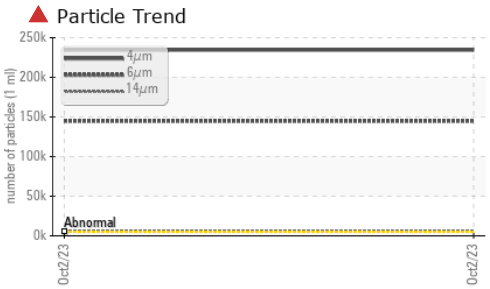
There is a high amount of particulates (2 to 100 microns in size) present in the oil. There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

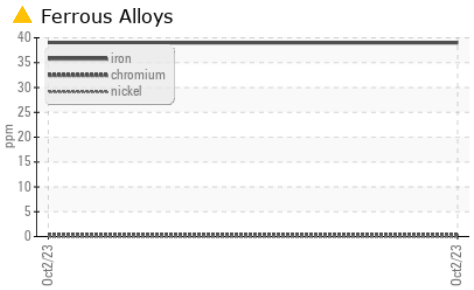
## FLUID CONDITION

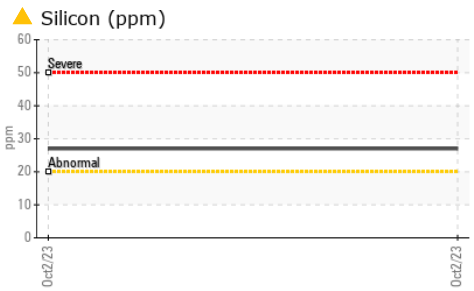
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

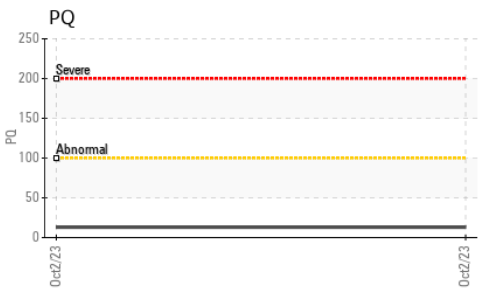
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | WC0670696 | --- | --- |
| Sample Date | | Client Info | | 02 Oct 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 3200 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | N/A | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | SEVERE | --- | --- |
| PQ | | ASTM D8184* | | 13 | --- | --- |
| Iron | ppm | ASTM D5185(m) | >20 | ▲ 39 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >10 | 3 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >10 | 6 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >75 | 65 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185(m) | >20 | ▲ 27 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 4 | --- | --- |
| Water | | WC Method | >0.1 | NEG | --- | --- |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 234483 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 144888 | --- | --- |
| Particles >14µm | | ASTM D7647 | >160 | ▲ 6370 | --- | --- |
| Particles >21µm | | ASTM D7647 | >40 | ▲ 385 | --- | --- |
| Particles >38µm | | ASTM D7647 | >10 | 4 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 1 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 25/24/20 | --- | --- |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | VLITE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | --- | --- |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | 13 | --- | --- |
| Boron | ppm | ASTM D5185(m) | | 48 | --- | --- |
| Barium | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 1 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | | 34 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | | 3310 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 1025 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | | 1144 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | | 3182 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 59.8 | --- | --- |

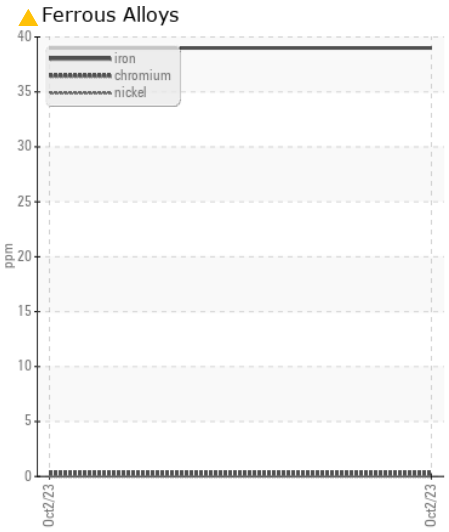


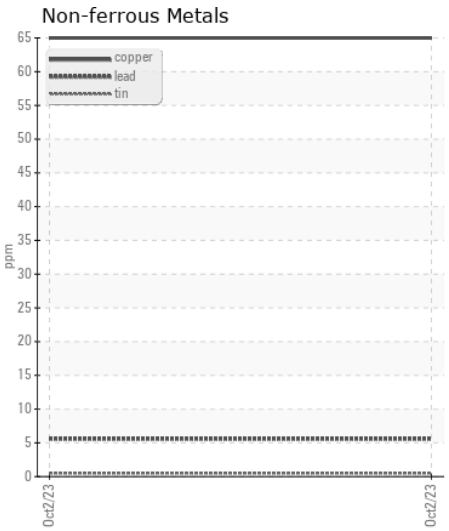



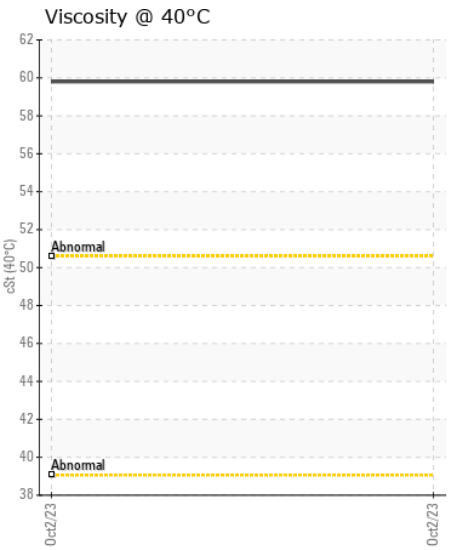



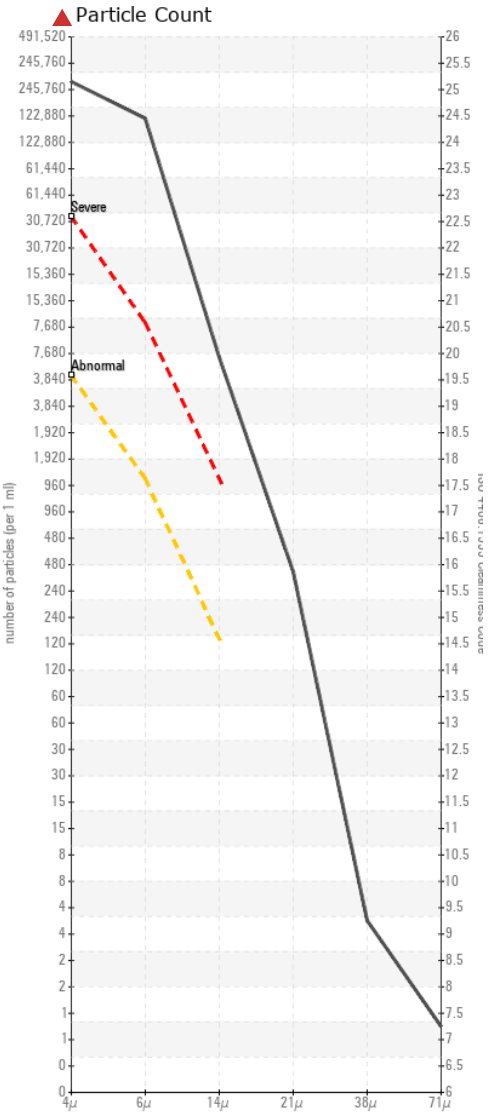




ISO 17025:2017 Accredited Laboratory

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|---|---|---|---|
| **Laboratory** | : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 | | |
| **Sample No.** | : WC0670696 | **Received** | : 04 Oct 2023 |
| **Lab Number** | : 02586805 | **Tested** | : 05 Oct 2023 |
| **Unique Number** | : 5655871 | **Diagnosed** | : 05 Oct 2023 - Kevin Marson |
| **Test Package** | : MOB 2 ( Additional Tests: PQ ) | | |

*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.*

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