



OIL ANALYSIS REPORT

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

Machine Id
Behringer Horizontal Band Saw # 012 - cc4030

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

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

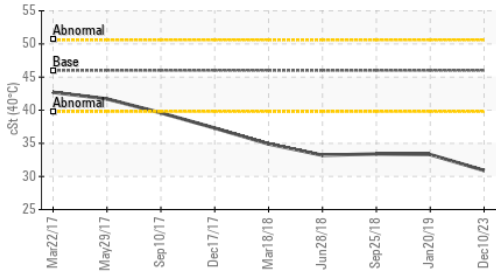
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

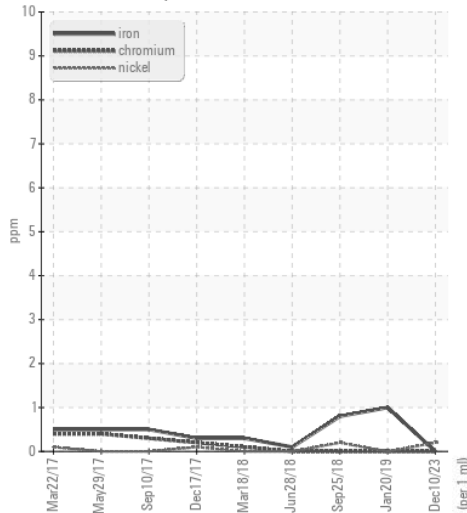
Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|---------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0888621 | WC0314763 | WC22131580 |
| Sample Date | | Client Info | | 10 Dec 2023 | 20 Jan 2019 | 25 Sep 2018 |
| Machine Age | days | Client Info | | 0 | 0 | 0 |
| Oil Age | days | Client Info | | 0 | 0 | 0 |
| Filter Age | days | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | SEVERE |
| Iron | ppm | ASTM D5185(m) | >20 | 0 | 1 | <1 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >20 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185(m) | >20 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185(m) | >15 | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 5310 | 6532 | 71135 |
| Particles >6µm | | ASTM D7647 | >1300 | 1180 | 942 | 11631 |
| Particles >14µm | | ASTM D7647 | >160 | 31 | 41 | 145 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | 9 | 25 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 20/17/12 | 20/17/13 | 23/21/14 |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | VLITE | VLITE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.05 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Boron | ppm | ASTM D5185(m) | 5 | <1 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | 5 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 5 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 25 | 0 | <1 | 2 |
| Calcium | ppm | ASTM D5185(m) | 200 | 43 | 41 | 46 |
| Phosphorus | ppm | ASTM D5185(m) | 300 | 328 | 315 | 326 |
| Zinc | ppm | ASTM D5185(m) | 370 | 412 | 414 | 406 |
| Sulfur | ppm | ASTM D5185(m) | 2500 | 2092 | 901 | 877 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | 0.57 | 0.44 | 0.40 | 0.367 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 46 | 30.9 | 33.3 | 33.4 |

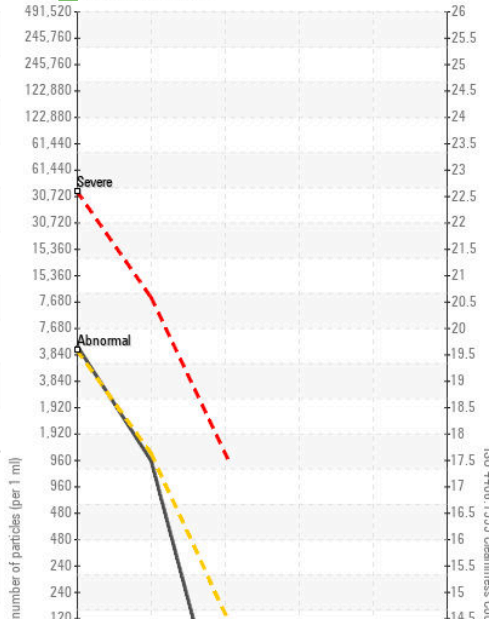
▲ Viscosity @ 40°C



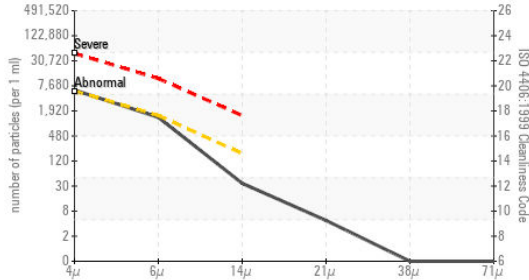
Ferrous Alloys



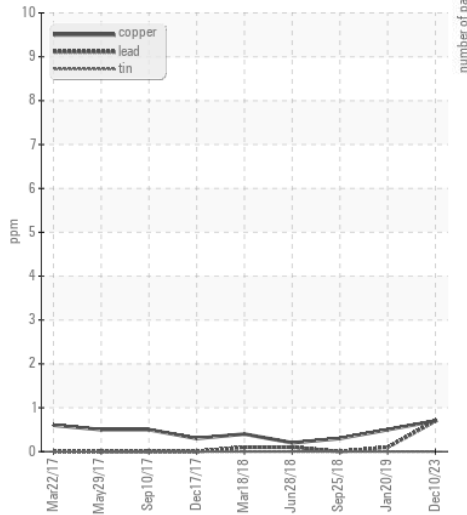
▲ Particle Count



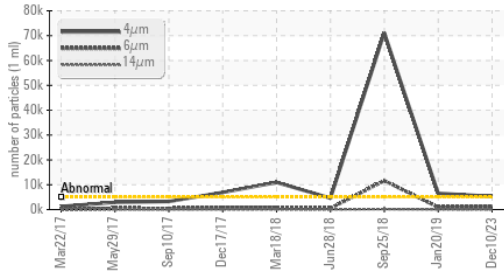
▲ Particle Count



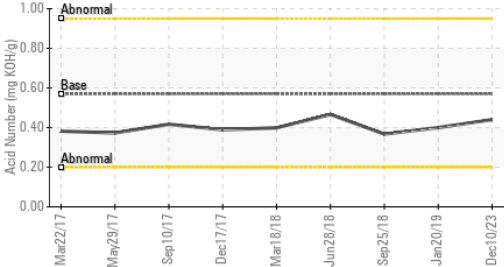
Non-ferrous Metals



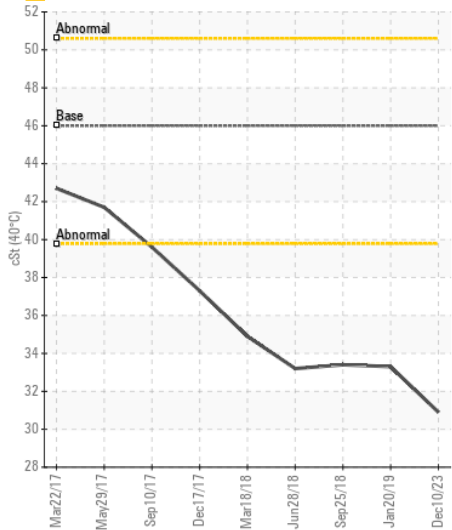
▲ Particle Trend



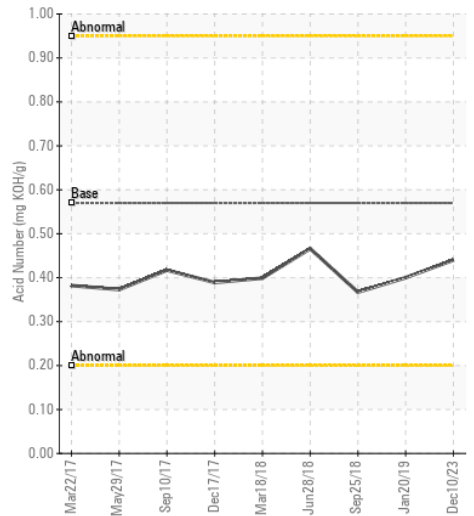
Acid Number



▲ Viscosity @ 40°C



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUSKY INJECTION MOLDING SYSTEMS LTD
Sample No. : WC0888621 **Received** : 11 Dec 2023 530 QUEEN STREET SOUTH
Lab Number : 02602281 **Diagnosed** : 12 Dec 2023 BOLTON, ON
Unique Number : 5695366 **Diagnostician** : Kevin Marson CA L7E 5S5
Test Package : IND 2 **Contact:** Robert Cameron
rcameron@husky.ca

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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