



OIL ANALYSIS REPORT

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

Area
Hydraulic System in Plant [412871446]
 Machine Id
Hock Cutter #6 - Maximo #6145 (S/N 100029036)
 Component
Hydraulic System
 Fluid
KEYSTONE NEVASTANE AW ISO 46 (10 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 | | WC0878436 | WC0852627 | WC0818571 |
| Sample Date | | Client Info | | 11 Jan 2024 | 01 Oct 2023 | 17 May 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | 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 | | | | ATTENTION | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >20 | 10 | 11 | 9 |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >20 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 2 | 1 | 1 |
| Lead | ppm | ASTM D5185(m) | >20 | 0 | <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 |

CONTAMINATION

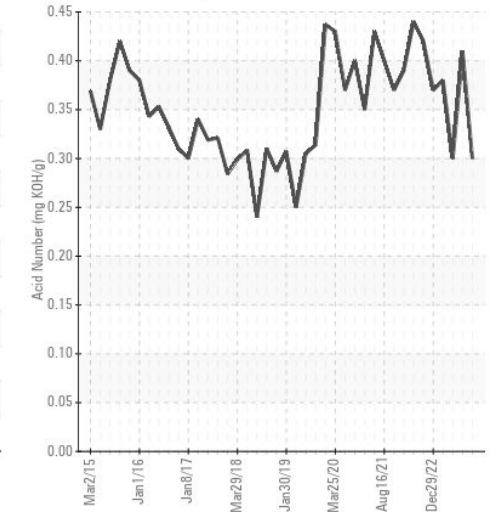
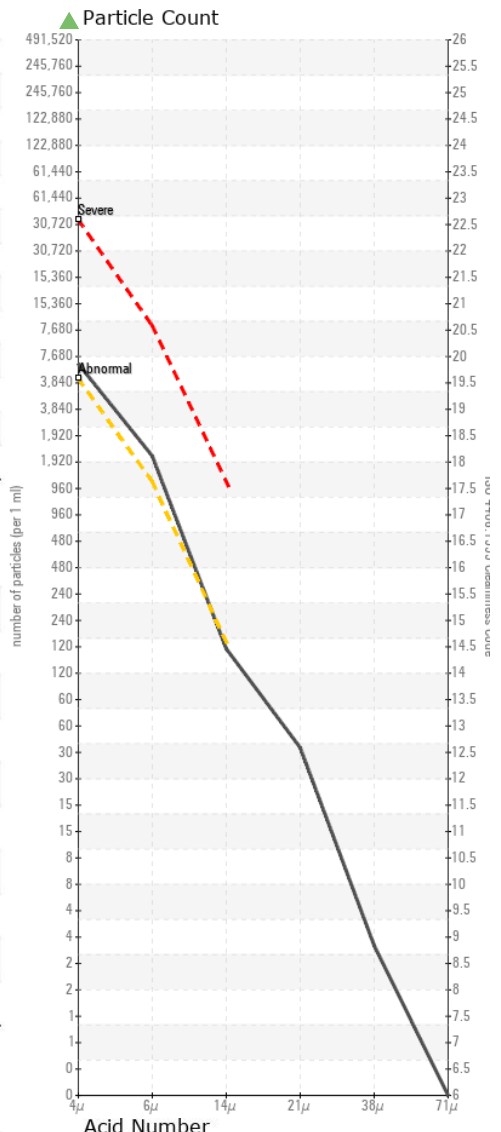
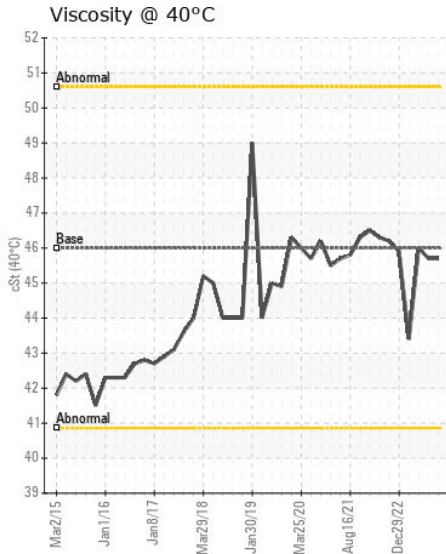
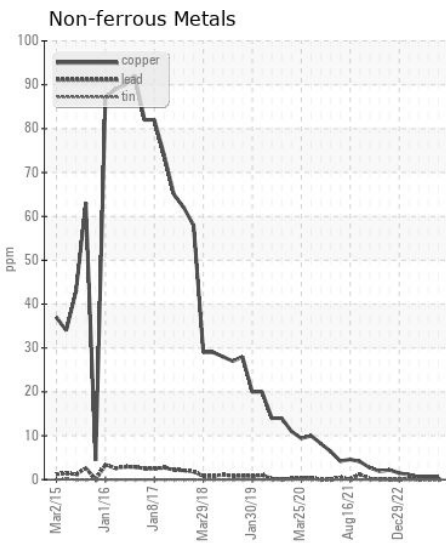
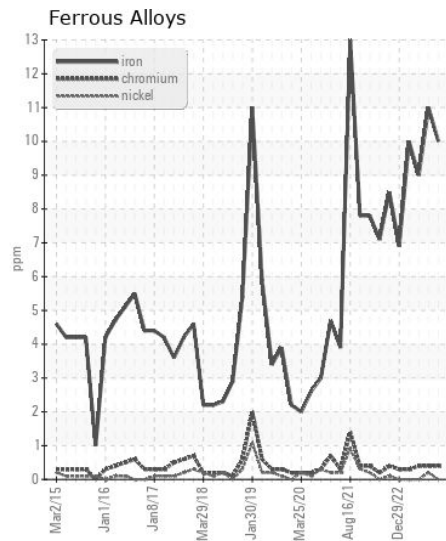
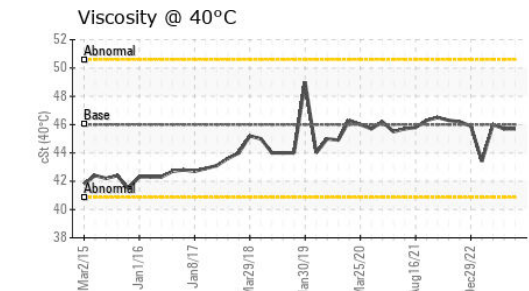
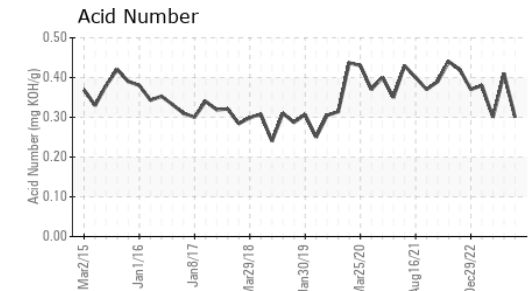
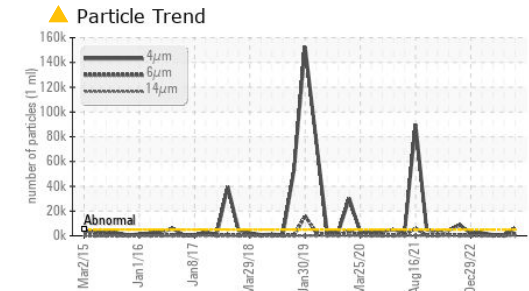
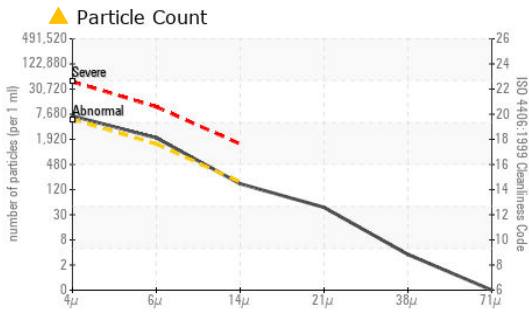
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|---------------|-----------|-------------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >15 | 4 | 4 | 4 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | ▲ 6075 | 382 | 845 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 1819 | 106 | 156 |
| Particles >14µm | | ASTM D7647 | >160 | 146 | 8 | 17 |
| Particles >21µm | | ASTM D7647 | >40 | 40 | 2 | 5 |
| Particles >38µm | | ASTM D7647 | >10 | 3 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | ▲ 20/18/14 | 16/14/10 | 17/14/11 |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| 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 |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|---------------|----|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Boron | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185(m) | | 220 | 227 | 239 |
| Zinc | ppm | ASTM D5185(m) | | 49 | 50 | 44 |
| Sulfur | ppm | ASTM D5185(m) | | 439 | 427 | 416 |
| Acid Number (AN) | mg KOH/g | ASTM D974* | | 0.30 | 0.41 | 0.30 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 46 | 45.7 | 45.7 | 46.0 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0878436 **Received** : 23 Jan 2024
Lab Number : 02610611 **Diagnosed** : 24 Jan 2024
Unique Number : 5711697 **Diagnostician** : Wes Davis
Test Package : IND 2

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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