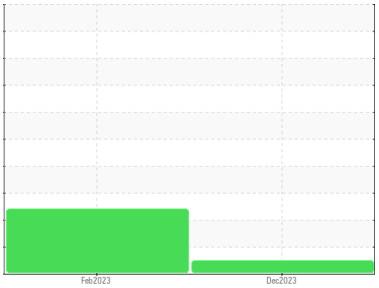
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Area
## P-ACO-32
Machine Id
## EDGE BONDER RAIL PRESS - MASONITE
Component
**Hydraulic System**

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor.

**Wear**
All component wear rates are normal.

**Contamination**
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **UCH06027686** | UCH05766508 | --- |
| Sample Date | | Client Info | | **04 Dec 2023** | 07 Feb 2023 | --- |
| Machine Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **NORMAL** | ABNORMAL | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.05 | **NEG** | NEG | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >20 | **4** | 3 | --- |
| Chromium | ppm | ASTM D5185m | >20 | **<1** | 0 | --- |
| Nickel | ppm | ASTM D5185m | >20 | **<1** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Silver | ppm | ASTM D5185m | | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | **<1** | <1 | --- |
| Lead | ppm | ASTM D5185m | >20 | **0** | <1 | --- |
| Copper | ppm | ASTM D5185m | >20 | **<1** | <1 | --- |
| Tin | ppm | ASTM D5185m | >20 | **0** | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | --- |
| Barium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Manganese | ppm | ASTM D5185m | | **0** | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | **<1** | 1 | --- |
| Calcium | ppm | ASTM D5185m | | **2** | 2 | --- |
| Phosphorus | ppm | ASTM D5185m | 54 | **124** | 123 | --- |
| Zinc | ppm | ASTM D5185m | | **47** | 43 | --- |
| Sulfur | ppm | ASTM D5185m | 355 | **973** | 919 | --- |

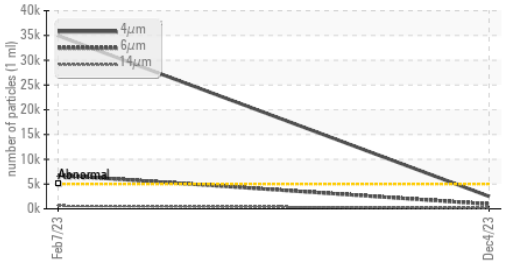
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >15 | **1** | 1 | --- |
| Sodium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | <1 | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >5000 | **2509** | ▲ 34964 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | **951** | ▲ 6800 | --- |
| Particles >14µm | | ASTM D7647 | >160 | **142** | ▲ 598 | --- |
| Particles >21µm | | ASTM D7647 | >40 | **45** | ▲ 141 | --- |
| Particles >38µm | | ASTM D7647 | >10 | **4** | ▲ 18 | --- |
| Particles >71µm | | ASTM D7647 | >3 | **1** | 2 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | **19/17/14** | ▲ 22/20/16 | --- |

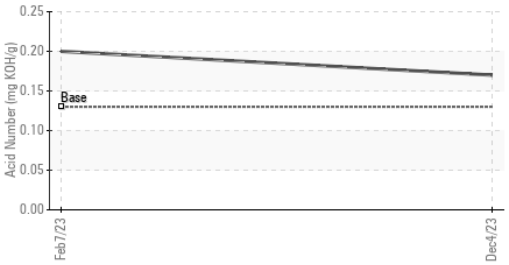
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.13 | **0.17** | 0.20 | --- |

# OIL ANALYSIS REPORT

Particle Trend

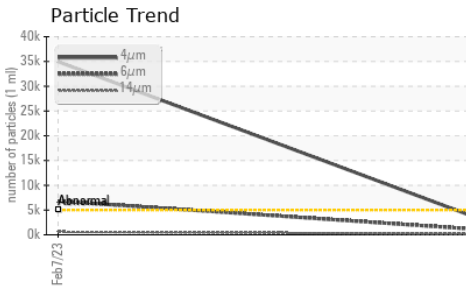



Acid Number



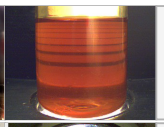
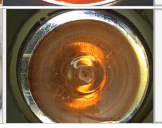

Viscosity @ 40°C


Particle Trend



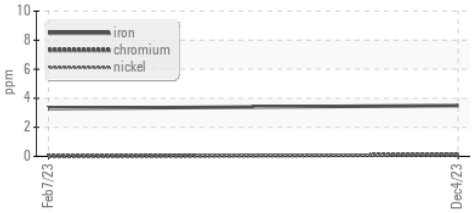

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Debris | scalar | *Visual | NONE | **NONE** | LIGHT | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.05 | **NEG** | NEG | --- |
| Free Water | scalar | *Visual | | **NEG** | NEG | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 31 | **49.6** | 49.5 | --- |

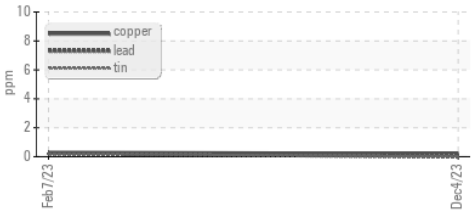
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  | *no image* |
| Bottom | | |  |  | *no image* |

## GRAPHS

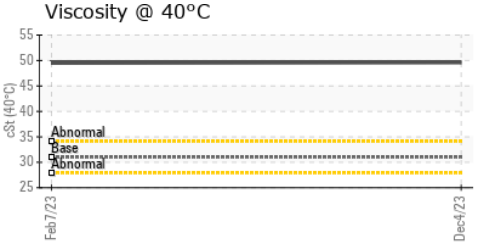
Ferrous Alloys



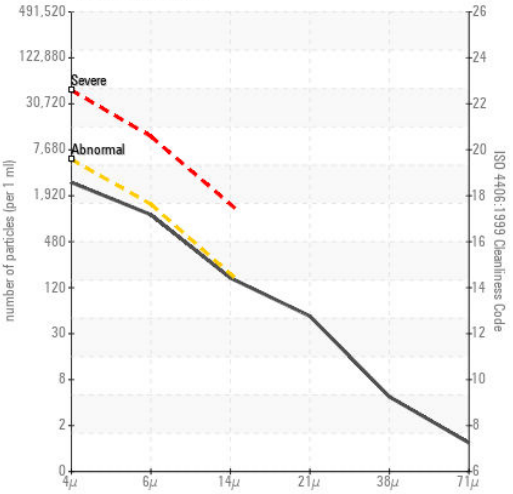

Non-ferrous Metals



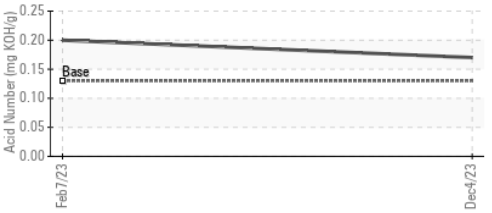

Viscosity @ 40°C




Particle Count




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : UCH06027686 **Received** : 07 Dec 2023
**Lab Number** : 06027686 **Diagnosed** : 14 Dec 2023
**Unique Number** : 10777477 **Diagnostician** : Jonathan Hester
**Test Package** : IND 2

*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)*


**CORROSION PRODUCTS & EQUIPMENT**
940 POINTVIEW AVE
EPHRATA, PA
US 17522
Contact: RYAN HUNGARTER
rhungarter@corrosion-products.com
T: (717)961-1998
F: