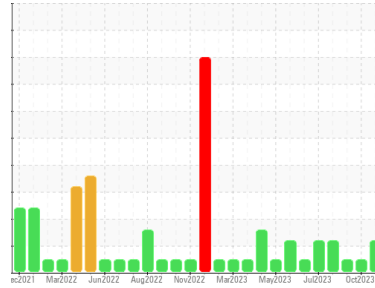


PROBLEM SUMMARY

Sample Rating Trend



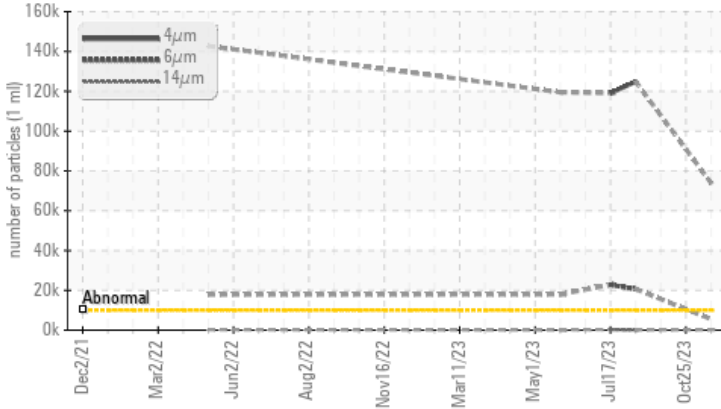
ISO



Area
[98575016]
 Machine Id
KR-GR-003107 - DUMPER 5B - REWORK (S/N INJECT B - 11513038)
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 68 (10 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | NORMAL | NORMAL |
|-----------------|--------------|-----------|------------|--------|--------|
| Particles >4µm | ASTM D7647 | >10000 | ▲ 73973 | --- | --- |
| Particles >6µm | ASTM D7647 | >2500 | ▲ 5532 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >20/18/16 | ▲ 23/20/14 | --- | --- |

Customer Id: KRAKIR
 Sample No.: PCA0108440
 Lab Number: 05994317
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---------------|--------|------|---------|---|
| Change Filter | --- | --- | ? | We recommend you service the filters on this component if applicable. |

HISTORICAL DIAGNOSIS

25 Oct 2023 Diag: Sean Felton

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



05 Sep 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



09 Aug 2023 Diag: Jonathan Hester

ISO



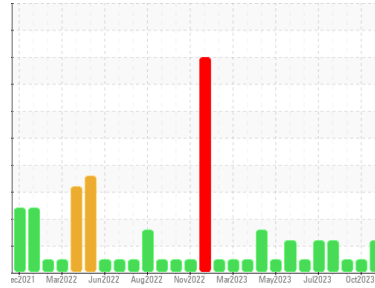
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



Area
[98575016]
 Machine Id
KR-GR-003107 - DUMPER 5B - REWORK (S/N INJECT B - 11513038)
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 68 (10 GAL)

DIAGNOSIS

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

Wear
 All component wear rates are normal.

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

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 | PCA0108440 | PCA0091774 | PCA0091781 |
| Sample Date | Client Info | 30 Oct 2023 | 25 Oct 2023 | 05 Sep 2023 |
| Machine Age | hrs | 0 | 0 | 0 |
| Oil Age | hrs | 0 | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | ABNORMAL | NORMAL | NORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------|-----------------|--------------|----------|----------|
| Iron ppm | ASTM D5185m >20 | 2 | <1 | 2 |
| Chromium ppm | ASTM D5185m >20 | <1 | <1 | <1 |
| Nickel ppm | ASTM D5185m >20 | 0 | <1 | 0 |
| Titanium ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum ppm | ASTM D5185m >20 | <1 | <1 | <1 |
| Lead ppm | ASTM D5185m >20 | 0 | <1 | 0 |
| Copper ppm | ASTM D5185m >20 | <1 | 0 | <1 |
| Tin ppm | ASTM D5185m >20 | <1 | <1 | 0 |
| Vanadium ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 |
|----------------|------------------|--------------|----------|----------|
| Boron ppm | ASTM D5185m 5 | 0 | 0 | 0 |
| Barium ppm | ASTM D5185m 5 | 20 | 0 | 0 |
| Molybdenum ppm | ASTM D5185m 5 | <1 | 0 | 0 |
| Manganese ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium ppm | ASTM D5185m 25 | 0 | 11 | 1 |
| Calcium ppm | ASTM D5185m 200 | 15 | 16 | 20 |
| Phosphorus ppm | ASTM D5185m 300 | 441 | 431 | 444 |
| Zinc ppm | ASTM D5185m 370 | 125 | 110 | 113 |
| Sulfur ppm | ASTM D5185m 2500 | 1260 | 1096 | 1351 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------|-----------------|----------|----------|----------|
| Silicon ppm | ASTM D5185m >15 | 2 | 3 | 2 |
| Sodium ppm | ASTM D5185m | 2 | <1 | 0 |
| Potassium ppm | ASTM D5185m >20 | 0 | <1 | 0 |

FLUID CLEANLINESS

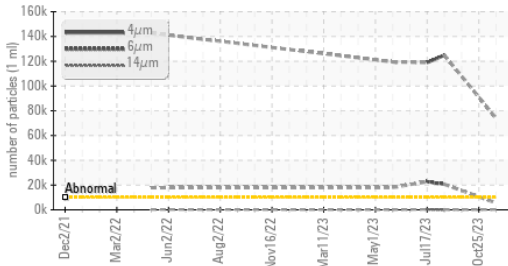
| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-------------------|----------|----------|
| Particles >4µm | ASTM D7647 >10000 | ▲ 73973 | --- | --- |
| Particles >6µm | ASTM D7647 >2500 | ▲ 5532 | --- | --- |
| Particles >14µm | ASTM D7647 >640 | 87 | --- | --- |
| Particles >21µm | ASTM D7647 >160 | 13 | --- | --- |
| Particles >38µm | ASTM D7647 >40 | 0 | --- | --- |
| Particles >71µm | ASTM D7647 >10 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) >20/18/16 | ▲ 23/20/14 | --- | --- |

FLUID DEGRADATION

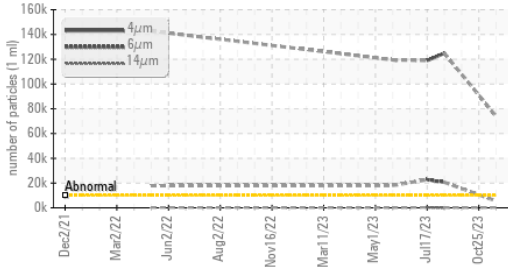
| method | limit/base | current | history1 | history2 |
|---------------------------|-----------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g | ASTM D8045 0.57 | 0.30 | --- | --- |

OIL ANALYSIS REPORT

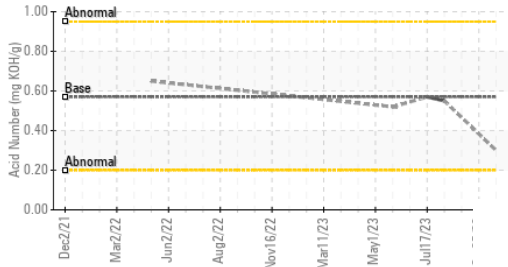
▲ Particle Trend



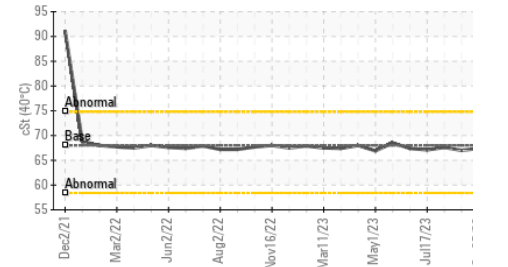
▲ Particle Trend



Acid Number



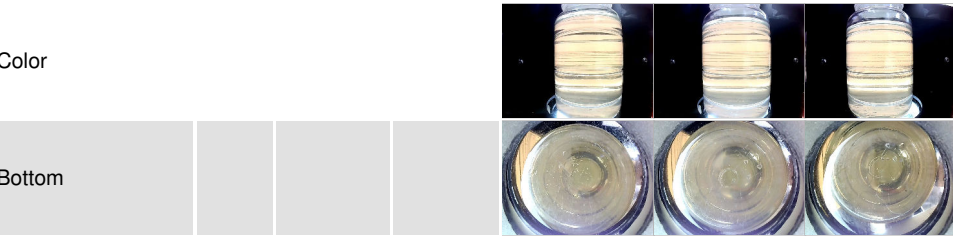
Viscosity @ 40°C



| PARAMETER | 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 |

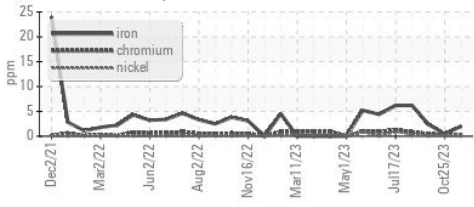
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 68 | 67.3 | 67.4 |

SAMPLE IMAGES

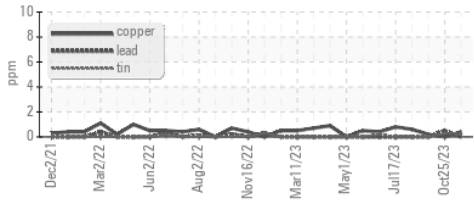


GRAPHS

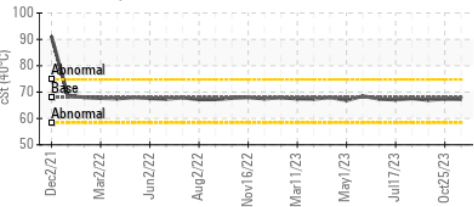
Ferrous Alloys



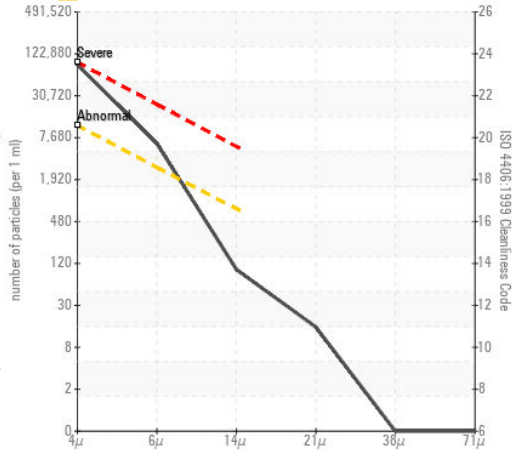
Non-ferrous Metals



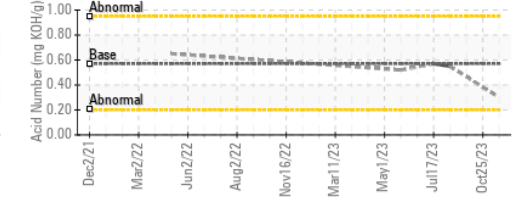
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108440 **Received** : 31 Oct 2023
Lab Number : 05994317 **Diagnosed** : 03 Nov 2023
Unique Number : 10722677 **Diagnostician** : Jonathan Hester
Test Package : IND 2

KraftHeinz - Kirksville - Plant 8333 PCA
 2504 INDUSTRIAL DR
 KIRKSVILLE, MO
 US 63501
 Contact: WALLACE WARD
 wallace.ward@kraftheinzcompany.com
 T: (660)627-1031
 F: (660)627-5887

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)