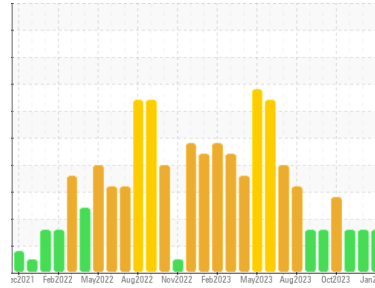


Area
INJECT B ROOM [98694390]
Machine Id
KR-GR-003105 - DUMPER 1B - NORTH (S/N INJECT B - 11513036)
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 98694390)

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|---------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PCA0114533 | PCA0110825 | PCA0110816 |
| Sample Date | Client Info | 22 Jan 2024 | 08 Nov 2023 | 06 Nov 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 | ABNORMAL | ABNORMAL |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|-----------------|--------------|----------|----|
| Iron | ppm | ASTM D5185m >20 | 11 | 3 | 6 |
| Chromium | ppm | ASTM D5185m >20 | 3 | <1 | 2 |
| Nickel | ppm | ASTM D5185m >20 | 1 | 0 | 2 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >20 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185m >20 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m >20 | <1 | 0 | <1 |
| Tin | ppm | ASTM D5185m >20 | 0 | 0 | 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 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m 5 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 25 | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185m 200 | 6 | 5 | 14 |
| Phosphorus | ppm | ASTM D5185m 300 | 444 | 436 | 476 |
| Zinc | ppm | ASTM D5185m 370 | 66 | 34 | 47 |
| Sulfur | ppm | ASTM D5185m 2500 | 706 | 774 | 1081 |

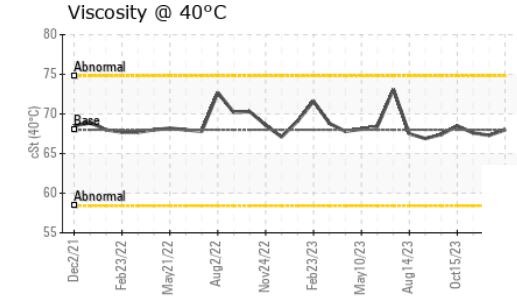
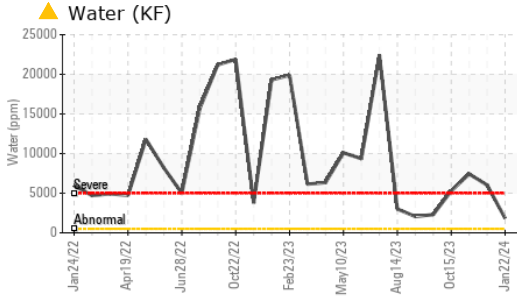
CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|------------------|----------------|----------|---------|
| Silicon | ppm | ASTM D5185m >15 | 3 | 2 | 2 |
| Sodium | ppm | ASTM D5185m | 2 | 0 | 4 |
| Potassium | ppm | ASTM D5185m >20 | 0 | 0 | <1 |
| Water | % | ASTM D6304 >0.05 | ▲ 0.184 | ▲ 0.603 | ▲ 0.742 |
| ppm Water | ppm | ASTM D6304 >500 | ▲ 1840 | ▲ 6030 | ▲ 7420 |

VISUAL

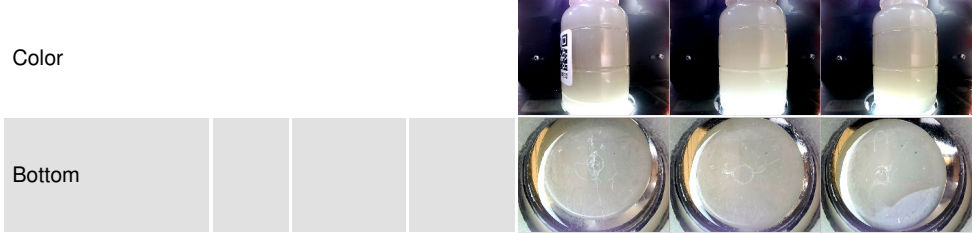
| method | limit/base | current | history1 | history2 | |
|------------------|------------|---------------|--------------|----------|--------|
| White Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual NONE | NONE | NONE | NONE |
| 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 | 0.2% | ▲ 0.2% | ▲ 0.2% |
| Free Water | scalar | *Visual | NEG | NEG | NEG |

OIL ANALYSIS REPORT

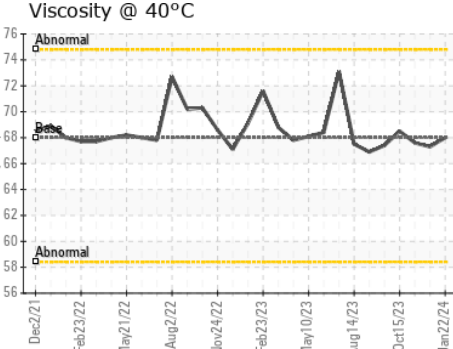
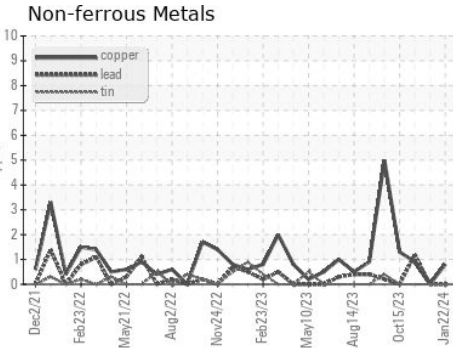
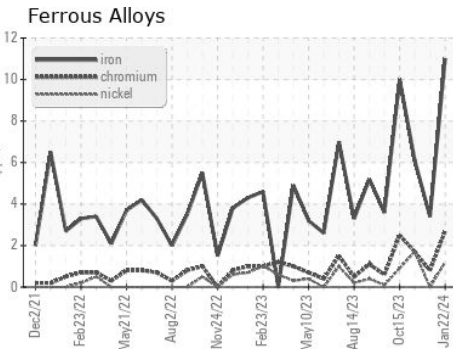


| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 68 | 68.0 | 67.3 | 67.6 |

| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
|---------------|--|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114533 **Received** : 25 Jan 2024
Lab Number : **06070817** **Diagnosed** : 29 Jan 2024
Unique Number : 10847494 **Diagnostician** : Jonathan Hester
Test Package : IND 1 (Additional Tests: KF)

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)