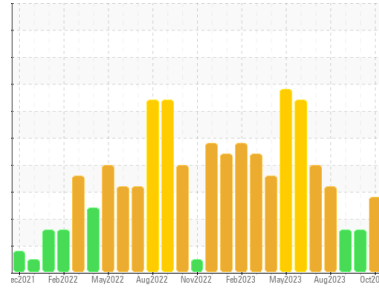


# PROBLEM SUMMARY

Sample Rating Trend

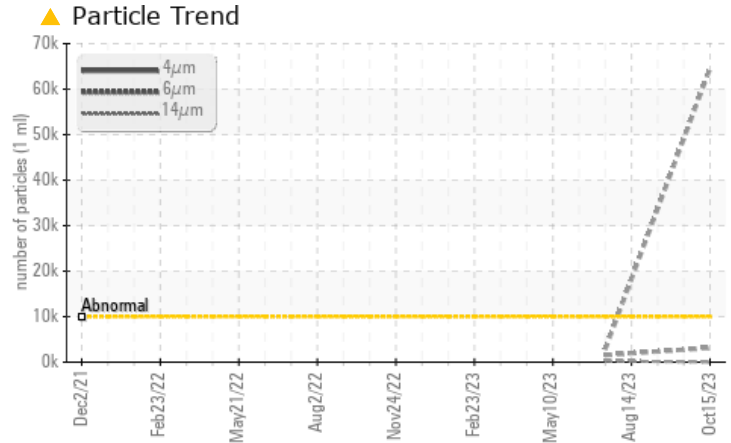
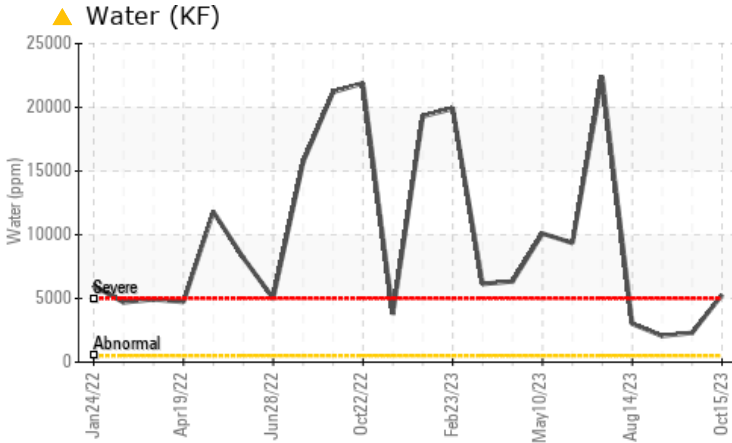


**WATER**



Area  
**[98559375]**  
 Machine Id  
**KR-GR-003105 - DUMPER 1B - NORTH (S/N INJECT B - 11513036)**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	<b>▲ 0.528</b>	▲ 0.230	▲ 0.206
ppm Water	ppm	ASTM D6304	>500	<b>▲ 5280</b>	▲ 2300	▲ 2060
Particles >4µm		ASTM D7647	>10000	<b>▲ 64557</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>▲ 3140</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/16	<b>▲ 23/19/10</b>	---	---
Emulsified Water	scalar	*Visual	>0.05	<b>▲ 0.2%</b>	0.2%	0.2%

Customer Id: KRAKIR  
 Sample No.: PCA0108239  
 Lab Number: 05979585  
 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](mailto:jhester@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

**22 Sep 2023 Diag: Jonathan Hester**

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



**22 Sep 2023 Diag: Jonathan Hester**

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



**14 Aug 2023 Diag: Jonathan Hester**

WATER



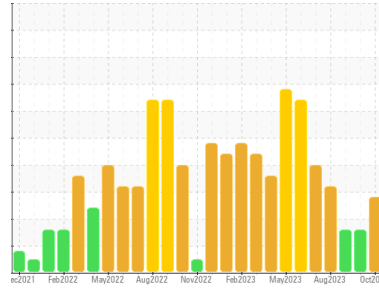
We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Appearance is milky. There is a moderate concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. 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



**WATER**



Area  
**[98559375]**  
 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

We advise that you check for the source of water entry. We recommend you service the filters on this component. 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. There is a moderate concentration of water present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0108239</b>	PCA0100857	PCA0091776
Sample Date	Client Info	<b>15 Oct 2023</b>	22 Sep 2023	22 Sep 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>10</b>	5	4
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >20	<b>1</b>	<1	5
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 5	<b>0</b>	2	2
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m 25	<b>0</b>	1	<1
Calcium	ppm	ASTM D5185m 200	<b>9</b>	10	3
Phosphorus	ppm	ASTM D5185m 300	<b>457</b>	446	427
Zinc	ppm	ASTM D5185m 370	<b>72</b>	69	48
Sulfur	ppm	ASTM D5185m 2500	<b>882</b>	946	963

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>3</b>	3	2
Sodium	ppm	ASTM D5185m	<b>3</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Water	%	ASTM D6304 >0.05	<b>▲ 0.528</b>	▲ 0.230	▲ 0.206
ppm Water	ppm	ASTM D6304 >500	<b>▲ 5280</b>	▲ 2300	▲ 2060

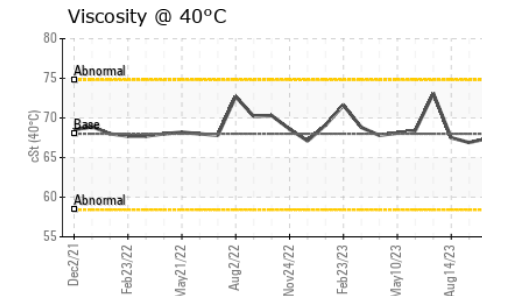
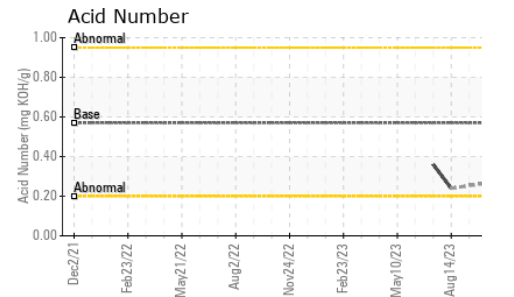
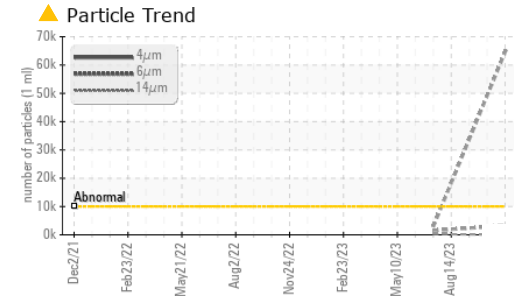
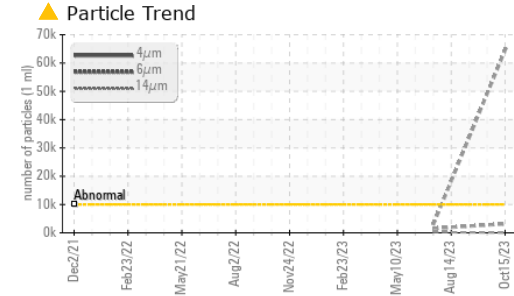
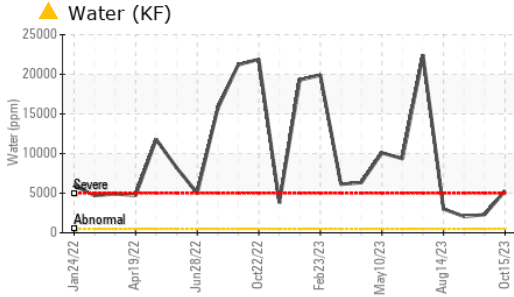
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>▲ 64557</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>▲ 3140</b>	---	---
Particles >14µm	ASTM D7647 >640	<b>10</b>	---	---
Particles >21µm	ASTM D7647 >160	<b>2</b>	---	---
Particles >38µm	ASTM D7647 >40	<b>0</b>	---	---
Particles >71µm	ASTM D7647 >10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	<b>▲ 23/19/10</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.28</b>	---	---

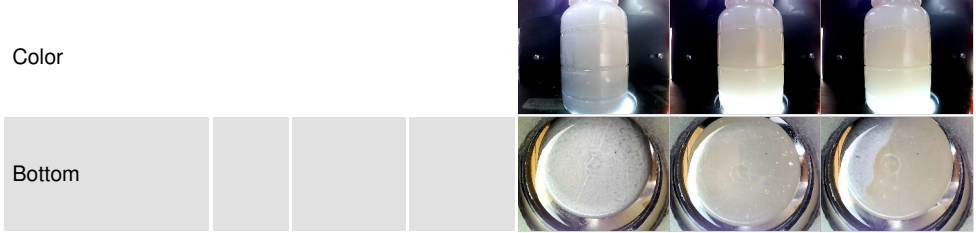
# OIL ANALYSIS REPORT



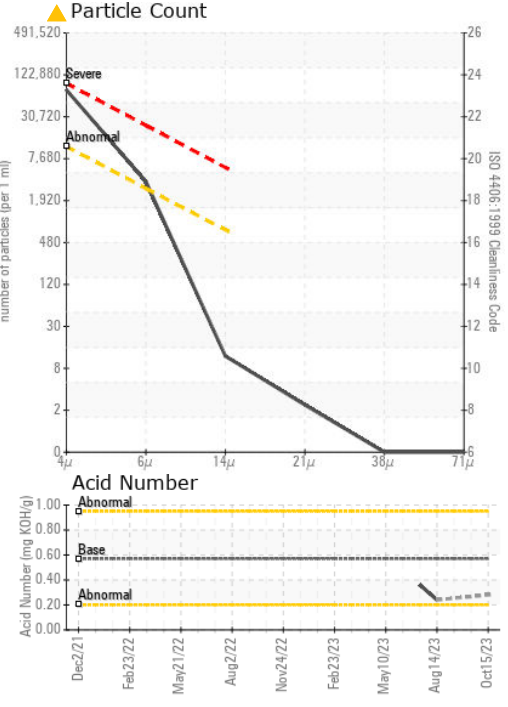
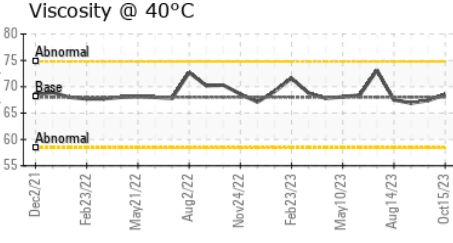
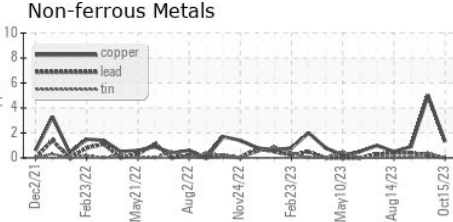
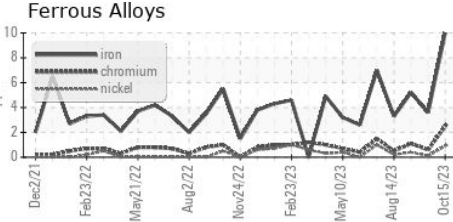
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	67.4	66.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108239  
**Lab Number** : 05979585  
**Unique Number** : 10696880  
**Test Package** : IND 2 ( 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)