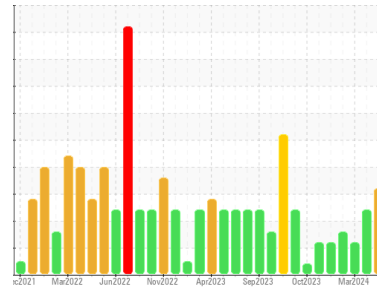


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**INJECT B ROOM [99015100]**  
 Machine Id  
**KR-GR-003106 - DUMPER 3B - SOUTH (S/N INJECT B - 11513037)**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

Appearance is milky. There is a moderate amount of visible silt present in the sample. There is a light concentration of water 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			<b>PCA0122294</b>	PCA0119598	PCA0120396
Sample Date	Client Info			<b>24 May 2024</b>	20 Mar 2024	14 Mar 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<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>2</b>	<1	0
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	3	3
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>20	<b>1</b>	2	1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1

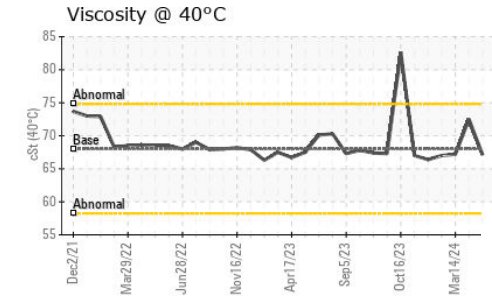
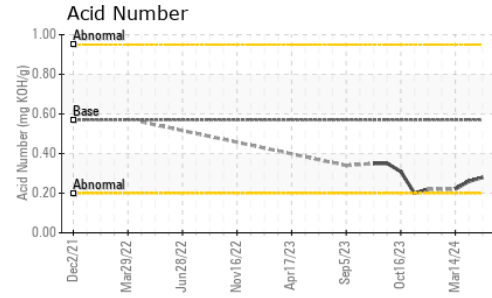
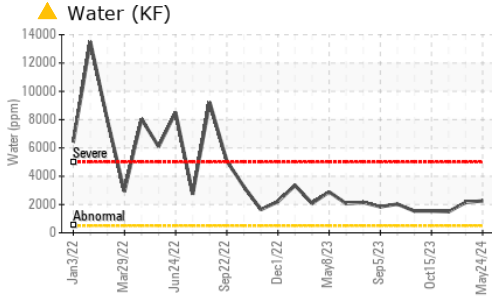
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	25	<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185m	200	<b>10</b>	13	12
Phosphorus	ppm	ASTM D5185m	300	<b>411</b>	453	465
Zinc	ppm	ASTM D5185m	370	<b>57</b>	55	60
Sulfur	ppm	ASTM D5185m	2500	<b>785</b>	862	888

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>3</b>	3	3
Sodium	ppm	ASTM D5185m		<b>2</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Water	%	ASTM D6304	>0.05	<b>▲ 0.226</b>	▲ 0.215	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 2260</b>	▲ 2150	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	---	1575	▲ 59992
Particles >6µm		ASTM D7647	>2500	---	858	▲ 7749
Particles >14µm		ASTM D7647	>640	---	146	338
Particles >21µm		ASTM D7647	>160	---	49	60
Particles >38µm		ASTM D7647	>40	---	8	3
Particles >71µm		ASTM D7647	>10	---	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/16	---	18/17/14	▲ 23/20/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.28</b>	0.26	0.22

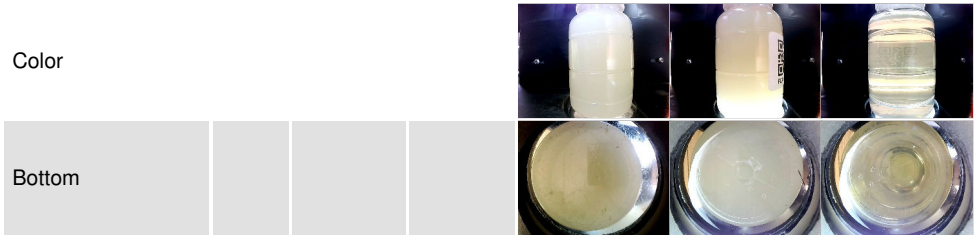
# OIL ANALYSIS REPORT



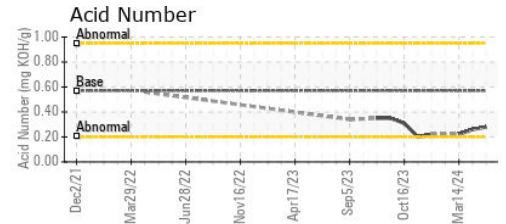
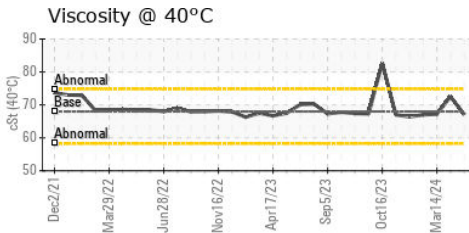
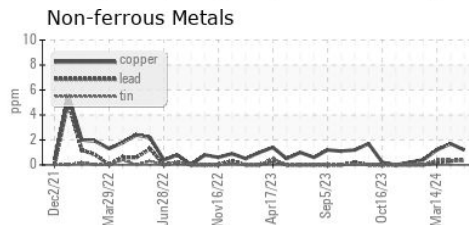
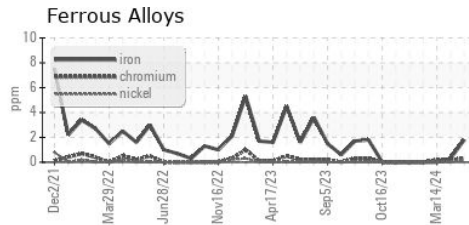
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	67.1	72.5	67.2

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : PCA0122294

**Lab Number** : 06195379

**Unique Number** : 11057502

**Test Package** : IND 2 ( Additional Tests: KF )

**Received** : 30 May 2024

**Tested** : 03 Jun 2024

**Diagnosed** : 03 Jun 2024 - Jonathan Hester

**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)