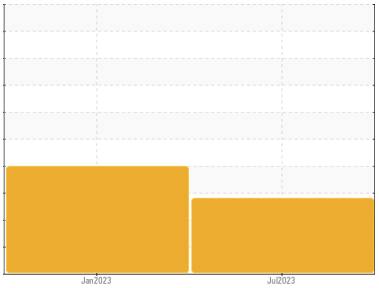
PROBLEM SUMMARY

Sample Rating Trend

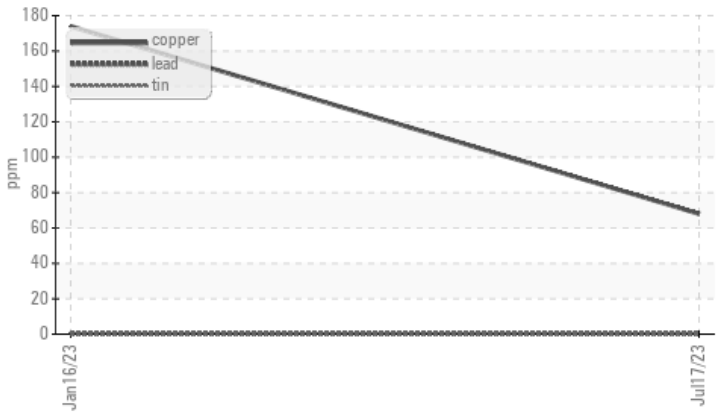


WEAR

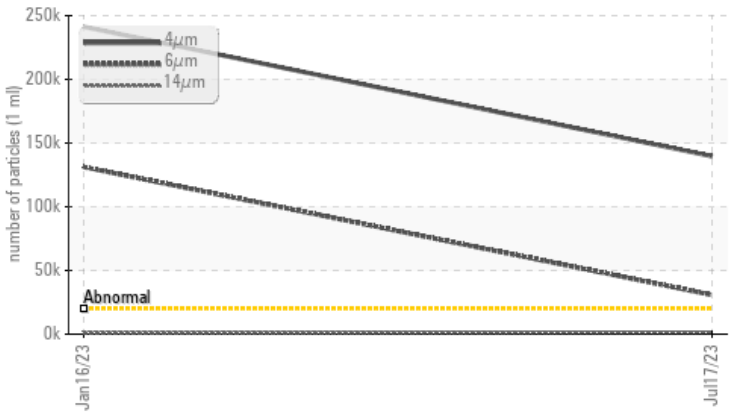
Machine Id
HT 02
Component
Agitator Gearbox
Fluid
GEAR OIL LS 80W90 (--- LTR)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Copper	ppm	ASTM D5185m	>50	▲ **68**	▲ 174	---
Particles >4µm		ASTM D7647	>20000	▲ **139669**	▲ 241322	---
Particles >6µm		ASTM D7647	>5000	▲ **30755**	▲ 131201	---
Particles >14µm		ASTM D7647	>640	▲ **1645**	▲ 932	---
Particles >21µm		ASTM D7647	>160	▲ **427**	16	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **24/22/18**	▲ 25/24/17	---

Customer Id: KRAMASIOW
Sample No.: USP244677
Lab Number: 05903279
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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.

HISTORICAL DIAGNOSIS

16 Jan 2023 Diag: Jonathan Hester

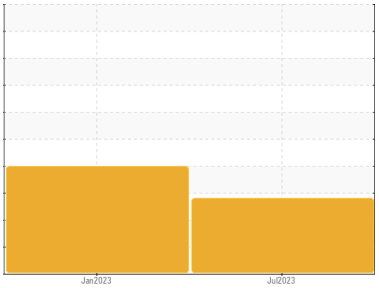
WATER

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.The copper level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water 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



WEAR

Machine Id
HT 02
Component
Agitator Gearbox
Fluid
GEAR OIL LS 80W90 (--- LTR)

DIAGNOSIS

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

Wear
The copper level is abnormal. All other component wear rates are normal.

Contamination
There is a high amount of particulates 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		**USP244677**	USP234438	---
Sample Date		Client Info		**17 Jul 2023**	16 Jan 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				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**6**	15	---
Chromium	ppm	ASTM D5185m	>10	**0**	<1	---
Nickel	ppm	ASTM D5185m	>10	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**<1**	0	---
Aluminum	ppm	ASTM D5185m	>25	**<1**	1	---
Lead	ppm	ASTM D5185m	>100	**<1**	<1	---
Copper	ppm	ASTM D5185m	>50	▲ **68**	▲ 174	---
Tin	ppm	ASTM D5185m	>10	**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	150	**22**	28	---
Barium	ppm	ASTM D5185m		**1**	0	---
Molybdenum	ppm	ASTM D5185m		**1**	0	---
Manganese	ppm	ASTM D5185m		**<1**	1	---
Magnesium	ppm	ASTM D5185m	10	**<1**	3	---
Calcium	ppm	ASTM D5185m	70	**2**	5	---
Phosphorus	ppm	ASTM D5185m	2000	**751**	1335	---
Zinc	ppm	ASTM D5185m	50	**16**	57	---
Sulfur	ppm	ASTM D5185m	20000	**12646**	22907	---

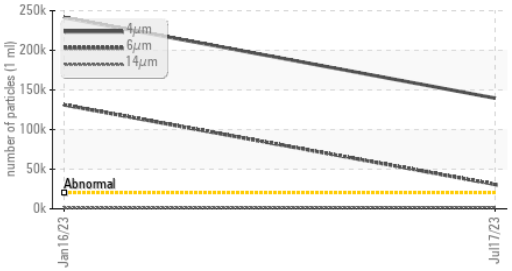
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**11**	12	---
Sodium	ppm	ASTM D5185m		**0**	<1	---
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	---
Water	%	ASTM D6304	>0.1	**0.006**	▲ 0.164	---
ppm Water	ppm	ASTM D6304	>1000	**65.2**	▲ 1640	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **139669**	▲ 241322	---
Particles >6µm		ASTM D7647	>5000	▲ **30755**	▲ 131201	---
Particles >14µm		ASTM D7647	>640	▲ **1645**	▲ 932	---
Particles >21µm		ASTM D7647	>160	▲ **427**	16	---
Particles >38µm		ASTM D7647	>40	**15**	2	---
Particles >71µm		ASTM D7647	>10	**1**	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **24/22/18**	▲ 25/24/17	---

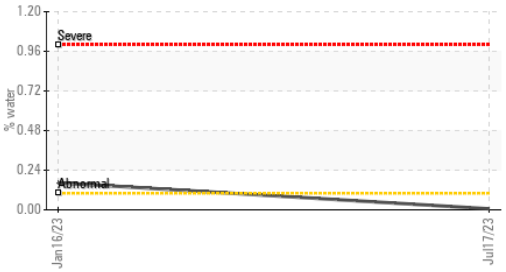
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.56**	3.23	---

OIL ANALYSIS REPORT

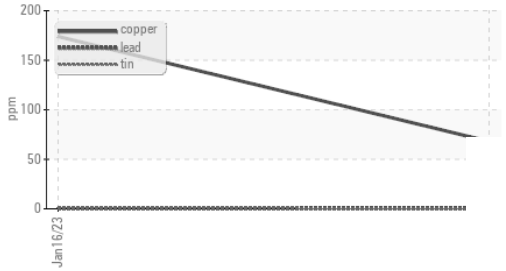
Particle Trend



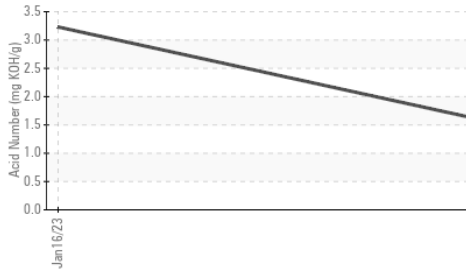
Water



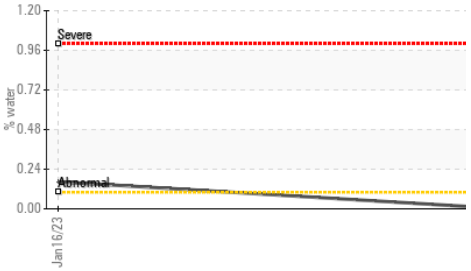
Non-ferrous Metals



Acid Number

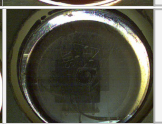


Water



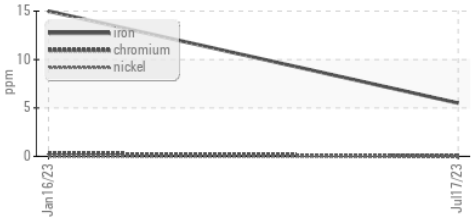
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	VLITE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	0.2%	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	140	**200**	200	---

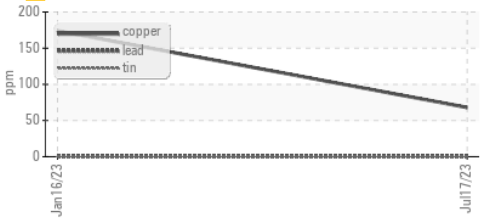
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

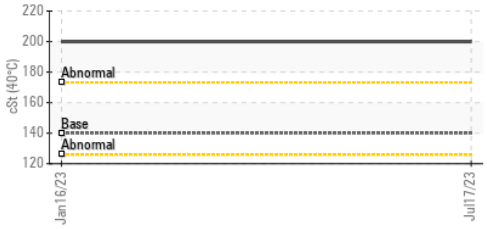
Ferrous Alloys



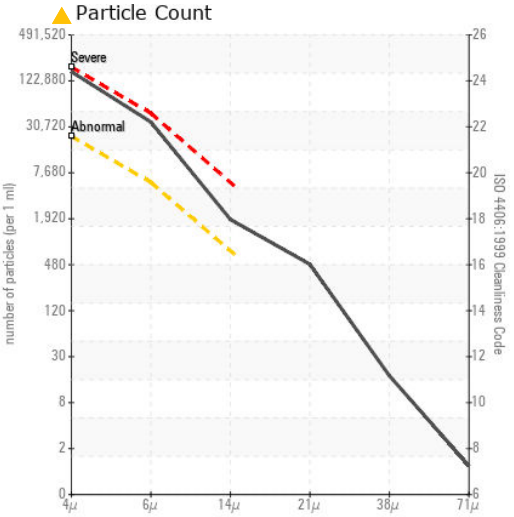
Non-ferrous Metals



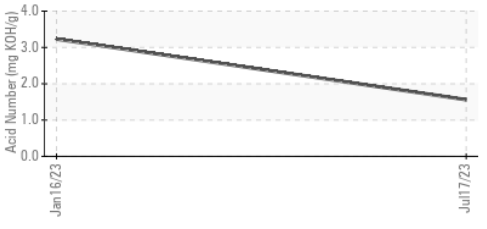
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP244677
Lab Number : 05903279
Unique Number : 10564635
Test Package : IND 2

Received : 20 Jul 2023
Diagnosed : 21 Jul 2023
Diagnostician : Doug Bogart

KraftHeinz - Mason City - Plant 8360
1022 12TH ST
MASON CITY, IA
US 50401
Contact: Service Manager

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)

T:
F: (641)421-2936