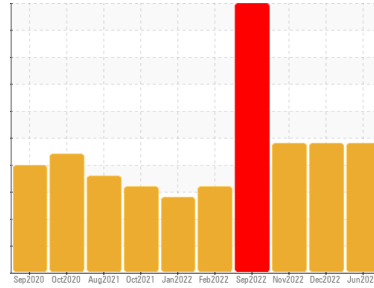




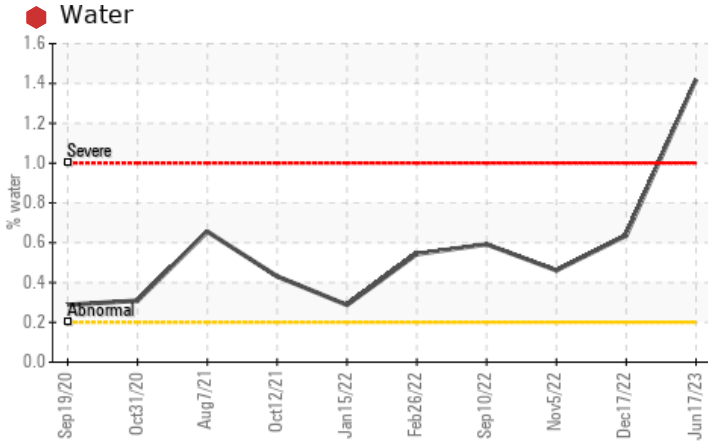
PROBLEM SUMMARY

Area
PROCESS CHEESE [98316595]
 Machine Id
COOKER 10
 Component
Gearbox
 Fluid
GEAR OIL ISO 320 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.2	🔴 1.42	🟡 0.636	🟡 0.461
ppm Water	ppm	ASTM D6304	>2000	🔴 14200	🟡 6360	🟡 4610
Silt	scalar	*Visual	NONE	🟡 HEAVY	NONE	NONE
Appearance	scalar	*Visual	NORML	🟡 MILKY	🟡 MILKY	🟡 MILKY
Emulsified Water	scalar	*Visual	>0.2	🔴 0.2%	🟡 0.2%	🟡 0.2%

Customer Id: KRASPRMO
 Sample No.: PCA0100128
 Lab Number: 05887825
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

17 Dec 2022 Diag: Doug Bogart

WATER



We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count. Gear wear is indicated. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



05 Nov 2022 Diag: Don Baldrige

WATER



We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count. All component wear rates are normal. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



10 Sep 2022 Diag: Jonathan Hester

WATER

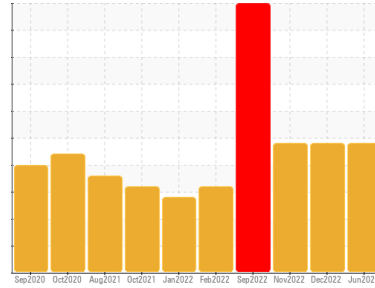


We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. Appearance is hazy. There is a high amount of particulates present in the oil. Free water present. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.

view report



Area
PROCESS CHEESE [98316595]
Machine Id
COOKER 10
Component
Gearbox
Fluid
GEAR OIL ISO 320 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

Wear

All component wear rates are normal.

Contamination

There is a high concentration of water present in the oil. There is a high amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	PCA0100128	PCA0076157	PCA0081571
Sample Date	Client Info	17 Jun 2023	17 Dec 2022	05 Nov 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		SEVERE	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m >200	92	▲ 289	▲ 289
Chromium	ppm	ASTM D5185m >15	<1	2	3
Nickel	ppm	ASTM D5185m >15	0	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	<1	<1
Lead	ppm	ASTM D5185m >100	0	0	0
Copper	ppm	ASTM D5185m >200	0	<1	<1
Tin	ppm	ASTM D5185m >25	<1	0	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m 50	21	0	0
Barium	ppm	ASTM D5185m 15	16	0	0
Molybdenum	ppm	ASTM D5185m 15	<1	<1	0
Manganese	ppm	ASTM D5185m	1	2	3
Magnesium	ppm	ASTM D5185m 50	16	1	2
Calcium	ppm	ASTM D5185m 50	26	5	<1
Phosphorus	ppm	ASTM D5185m 350	316	546	625
Zinc	ppm	ASTM D5185m 100	123	0	<1
Sulfur	ppm	ASTM D5185m 12500	18017	1115	1573

CONTAMINANTS

method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m >50	3	4	2
Sodium	ppm	ASTM D5185m	29	15	12
Potassium	ppm	ASTM D5185m >20	4	<1	0
Water	%	ASTM D6304 >0.2	1.42	▲ 0.636	▲ 0.461
ppm Water	ppm	ASTM D6304 >2000	14200	▲ 6360	▲ 4610

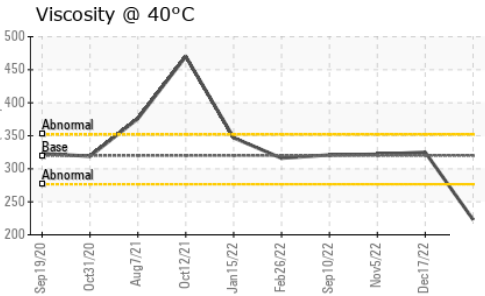
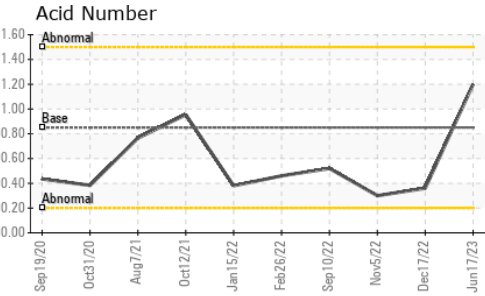
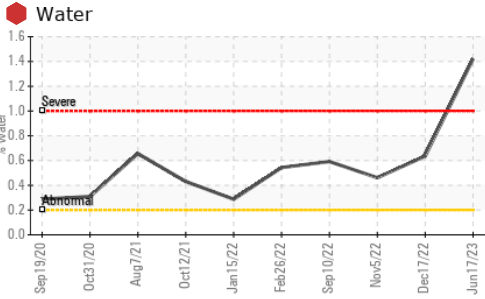
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647 >1300	---	---	---
Particles >6µm	ASTM D7647 >320	---	---	---
Particles >14µm	ASTM D7647 >80	---	---	---
Particles >21µm	ASTM D7647 >20	---	---	---
Particles >38µm	ASTM D7647 >4	---	---	---
Particles >71µm	ASTM D7647 >3	---	---	---
Oil Cleanliness	ISO 4406 (c) >17/15/13	---	---	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	1.20	0.36	0.30

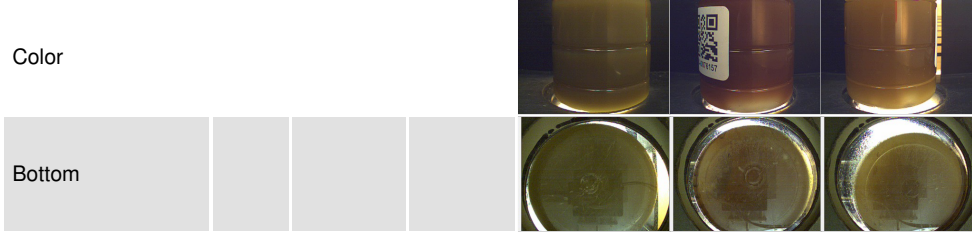
OIL ANALYSIS REPORT



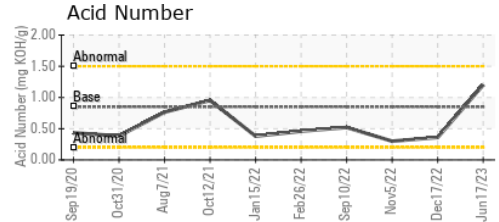
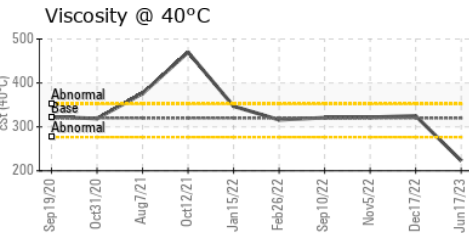
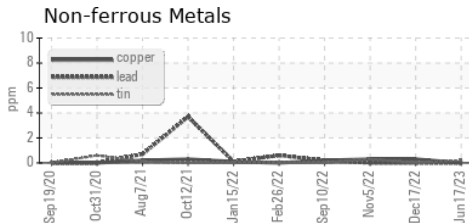
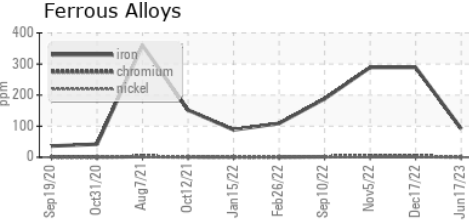
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ HEAVY	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	▲ MILKY	▲ MILKY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	0.2%	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual	NEG	▲ 1.0	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 320	223	325	322

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100128
Lab Number : 05887825
Unique Number : 10538308
Test Package : IND 2 (Additional Tests: KF, PrtCount)

KraftHeinz - Springfield - Plant 8311 PCA
 2035 E BENNETT
 SPRINGFIELD, MO
 US 65804
 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: