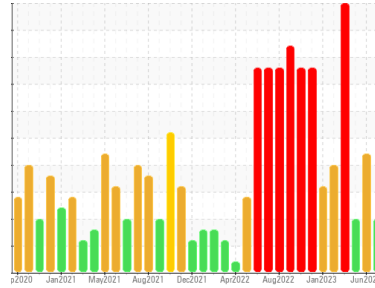


PROBLEM SUMMARY

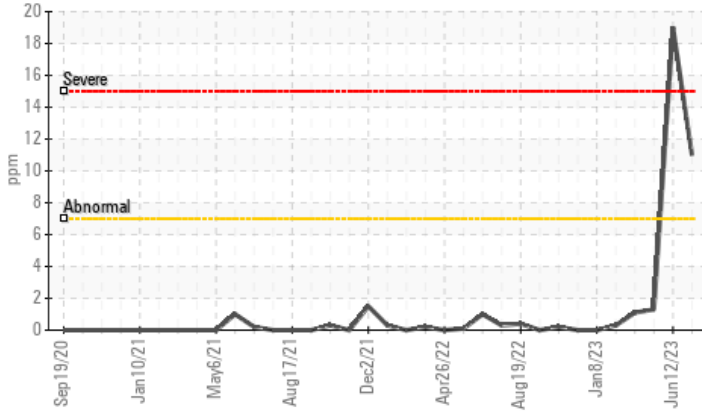
Area
PROCESS CHEESE [98421955]
 Machine Id
4635-CMX
 Component
Pump
 Fluid
R&O OIL ISO 68 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Aluminum (ppm)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>7	▲ 11	▲ 19	1
Silt	scalar	*Visual	NONE	▲ MODER	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	▲ HEAVY	NONE	▲ MODER

Customer Id: KRASPRMO
 Sample No.: PCA0081542
 Lab Number: 05929577
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@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 Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

12 Jun 2023 Diag: Don Baldrige

WEAR



The oil change at the time of sampling has been noted. We recommend you service the filters on this component. 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. Gear wear is indicated. Appearance is hazy. There is a high amount of visible silt present in the sample. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

view report



18 May 2023 Diag: Jonathan Hester

WEAR



The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. 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. The iron level is abnormal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



16 Apr 2023 Diag: Doug Bogart

VISUAL METAL



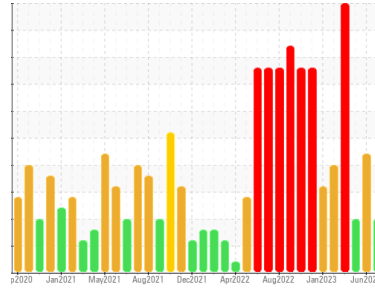
We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. Generally an abnormal to severe rate of wear indicated in the component. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
PROCESS CHEESE [98421955]
 Machine Id
4635-CMX
 Component
Pump
 Fluid
R&O OIL ISO 68 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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.

▲ Wear

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

▲ Contamination

High concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0081542	PCA0096807	PCA0081548
Sample Date	Client Info	15 Aug 2023	12 Jun 2023	18 May 2023
Machine Age	mths	Client Info	0	0
Oil Age	mths	Client Info	1	1
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >90	84	▲ 144	▲ 166
Chromium	ppm	ASTM D5185m >5	<1	<1	▲ 8
Nickel	ppm	ASTM D5185m >5	0	<1	<1
Titanium	ppm	ASTM D5185m >3	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >7	▲ 11	▲ 19	1
Lead	ppm	ASTM D5185m >12	0	<1	0
Copper	ppm	ASTM D5185m >30	<1	1	<1
Tin	ppm	ASTM D5185m >9	0	0	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	0
Barium	ppm	ASTM D5185m 5	0	3
Molybdenum	ppm	ASTM D5185m 5	0	0
Manganese	ppm	ASTM D5185m	<1	<1
Magnesium	ppm	ASTM D5185m 5	0	<1
Calcium	ppm	ASTM D5185m 5	14	▲ 40
Phosphorus	ppm	ASTM D5185m 100	38	60
Zinc	ppm	ASTM D5185m 25	59	▲ 77
Sulfur	ppm	ASTM D5185m 1500	44	131

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	4	8
Sodium	ppm	ASTM D5185m	2	1
Potassium	ppm	ASTM D5185m >20	<1	2

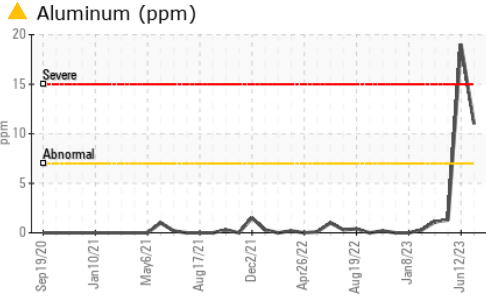
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.08	0.085	0.083

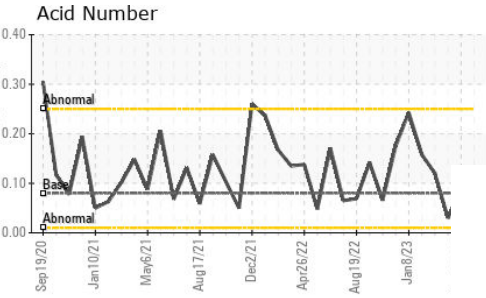
VISUAL

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	▲ MODER	▲ HEAVY
Debris	scalar	*Visual NONE	▲ HEAVY	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	▲ HAZY
Odor	scalar	*Visual NORML	NORML	NORML
Emulsified Water	scalar	*Visual	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG

OIL ANALYSIS REPORT

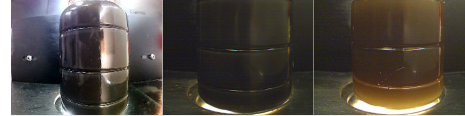


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	74.2	▲ 82.7	70.4

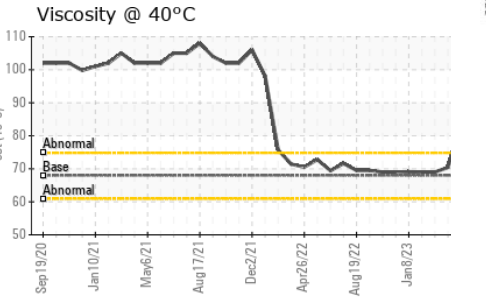
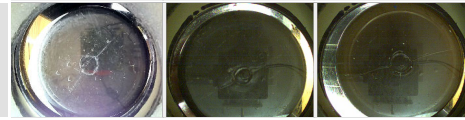


SAMPLE IMAGES		method	limit/base	current	history1	history2
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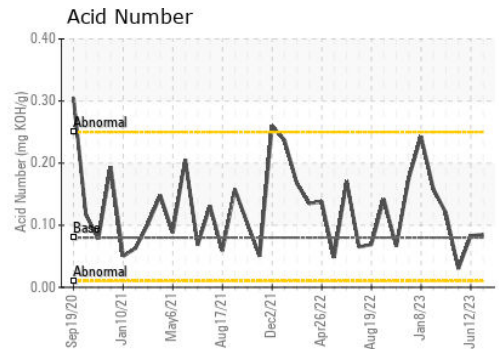
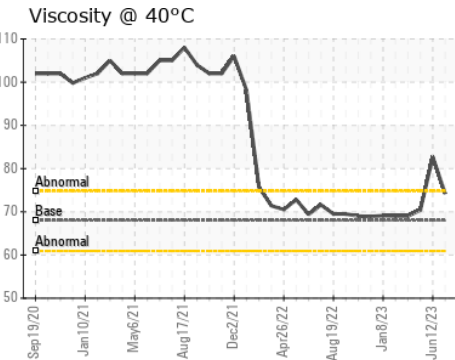
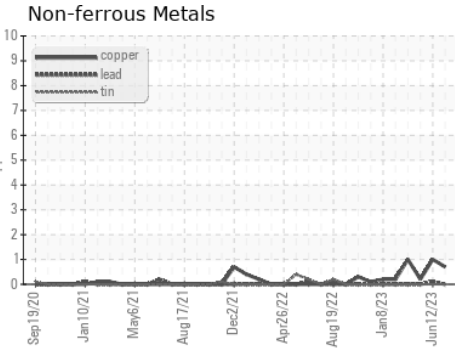
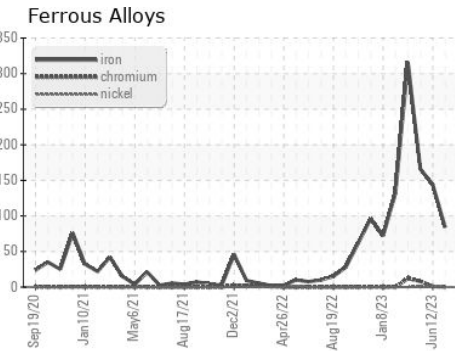
Color



Bottom



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0081542
Lab Number : 05929577
Unique Number : 10609524
Test Package : IND 2 (Additional Tests: 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: