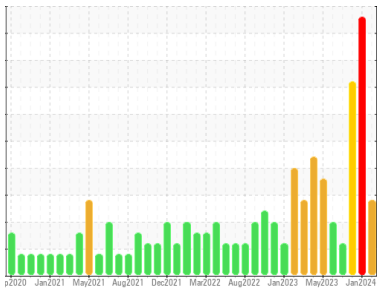
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
PROCESS CHEESE [98880466]
Machine Id
4625-CMX
Component
Pump
Fluid
R&O OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
The iron level has decreased, but is still 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		**PCA0117978**	PCA0096802	PCA0096855
Sample Date		Client Info		**09 Mar 2024**	29 Jan 2024	11 Nov 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	1	1
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	SEVERE	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	▲ **116**	▲ 625	▲ 413
Chromium	ppm	ASTM D5185m	>5	**1**	2	2
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	<1
Titanium	ppm	ASTM D5185m	>3	**0**	0	<1
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>7	**0**	<1	2
Lead	ppm	ASTM D5185m	>12	**0**	<1	0
Copper	ppm	ASTM D5185m	>30	**0**	<1	1
Tin	ppm	ASTM D5185m	>9	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	5	**0**	0	4
Molybdenum	ppm	ASTM D5185m	5	**0**	0	<1
Manganese	ppm	ASTM D5185m		**1**	4	3
Magnesium	ppm	ASTM D5185m	5	**0**	0	<1
Calcium	ppm	ASTM D5185m	5	**35**	5	5
Phosphorus	ppm	ASTM D5185m	100	**147**	● 529	76
Zinc	ppm	ASTM D5185m	25	**102**	● 163	89
Sulfur	ppm	ASTM D5185m	1500	**158**	● 1206	0

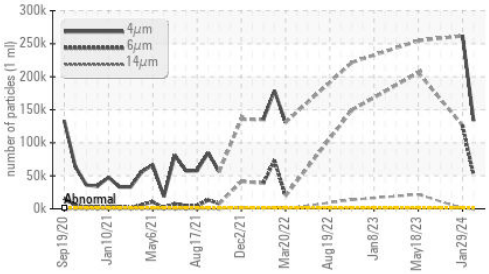
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	**2**	4	4
Sodium	ppm	ASTM D5185m		**7**	6	5
Potassium	ppm	ASTM D5185m	>20	**1**	<1	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	▲ **133493**	▲ 261932	---
Particles >6µm		ASTM D7647	>320	▲ **50938**	▲ 126331	---
Particles >14µm		ASTM D7647	>80	▲ **344**	▲ 954	---
Particles >21µm		ASTM D7647	>20	▲ **34**	▲ 129	---
Particles >38µm		ASTM D7647	>4	**0**	3	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	▲ **24/23/16**	▲ 25/24/17	---

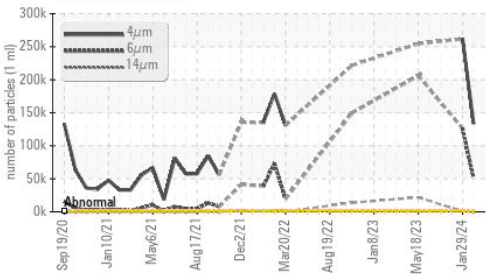
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	**0.17**	0.13	0.091

OIL ANALYSIS REPORT

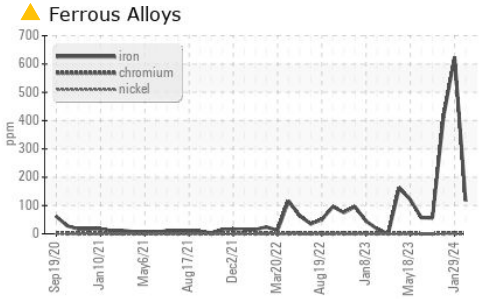
Particle Trend



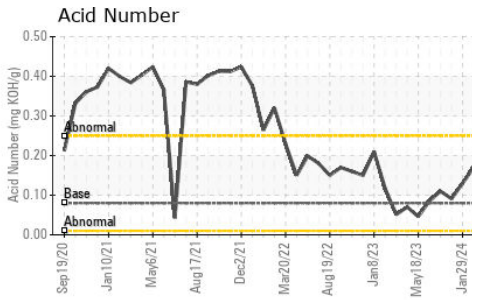
Particle Trend



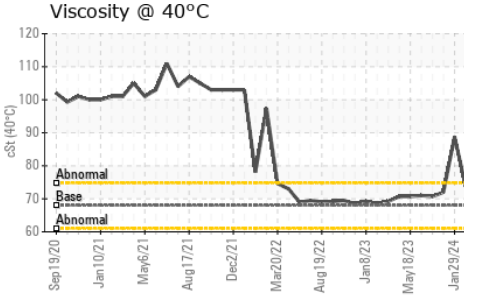
Ferrous Alloys



Acid Number



Viscosity @ 40°C



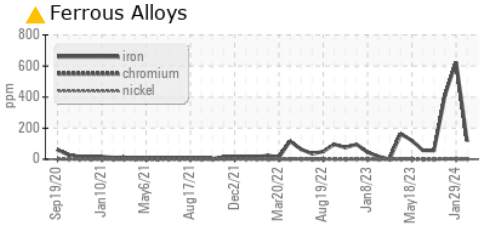
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	LIGHT	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	HAZY	● HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	**73.8**	● 88.8	72.0

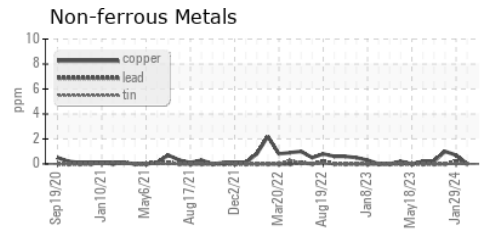
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

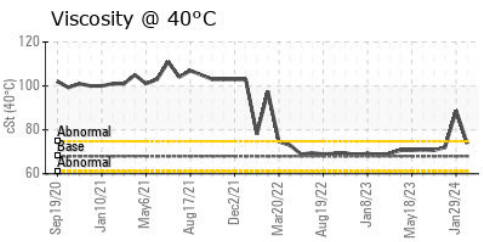
Ferrous Alloys



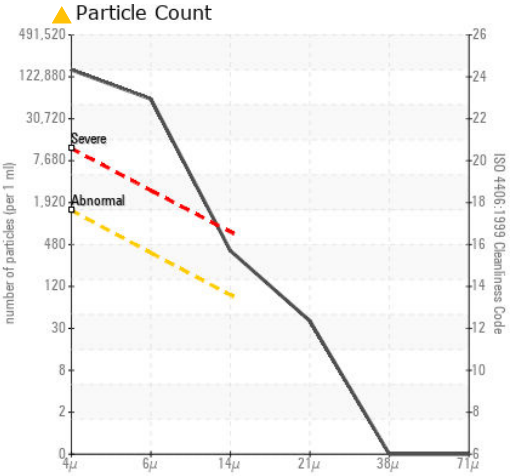
Non-ferrous Metals



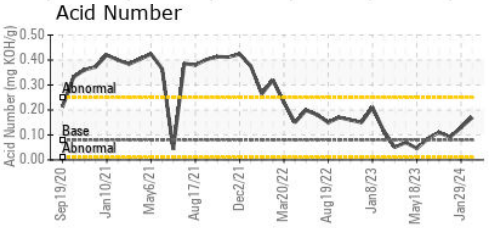
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117978
Lab Number : 06120819
Unique Number : 10929652
Test Package : IND 2 (Additional Tests: PrtCount)

Received : 18 Mar 2024
Tested : 19 Mar 2024
Diagnosed : 20 Mar 2024 - Don Baldridge

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: