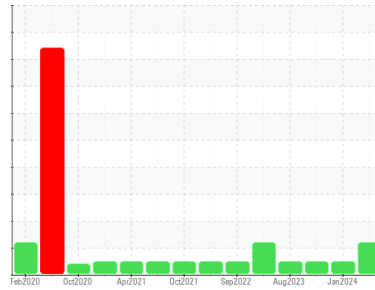


OIL ANALYSIS REPORT

Sample Rating Trend



Area
Process Cheese [98968115]
 Machine Id
BLENDER 7
 Component
Gearbox
 Fluid
GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation
 The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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	PCA0117535	PCA0114265	PCA0094565
Sample Date	Client Info	08 Apr 2024	22 Jan 2024	30 Oct 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Filtered	Filtered	Filtered
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >200	<1	0	<1
Chromium	ppm ASTM D5185m >15	<1	<1	<1
Nickel	ppm ASTM D5185m >15	<1	0	0
Titanium	ppm ASTM D5185m	<1	<1	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >25	2	2	2
Lead	ppm ASTM D5185m >100	0	0	0
Copper	ppm ASTM D5185m >200	<1	<1	0
Tin	ppm ASTM D5185m >25	<1	<1	0
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	0	0	0
Barium	ppm ASTM D5185m 15	0	0	0
Molybdenum	ppm ASTM D5185m 15	<1	<1	0
Manganese	ppm ASTM D5185m	0	0	0
Magnesium	ppm ASTM D5185m 50	<1	0	<1
Calcium	ppm ASTM D5185m 50	0	<1	<1
Phosphorus	ppm ASTM D5185m 350	713	431	475
Zinc	ppm ASTM D5185m 100	0	0	3
Sulfur	ppm ASTM D5185m 12500	1776	1306	1292

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	2	<1	3
Sodium	ppm ASTM D5185m	<1	0	0
Potassium	ppm ASTM D5185m >20	<1	2	1

FLUID CLEANLINESS

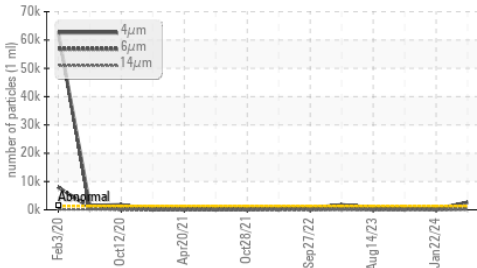
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	▲ 2663	255	516
Particles >6µm	ASTM D7647 >320	● 428	54	111
Particles >14µm	ASTM D7647 >80	34	4	9
Particles >21µm	ASTM D7647 >20	11	1	2
Particles >38µm	ASTM D7647 >4	1	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >17/15/13	▲ 19/16/12	15/13/9	16/14/10

FLUID DEGRADATION

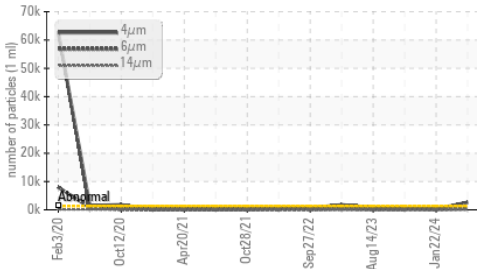
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.85	0.35	0.28	0.32

OIL ANALYSIS REPORT

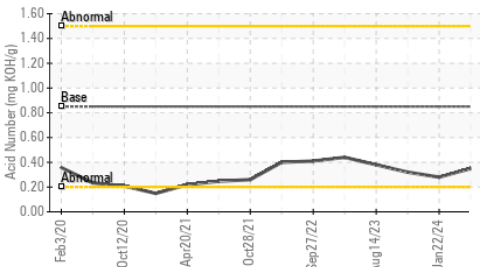
▲ Particle Trend



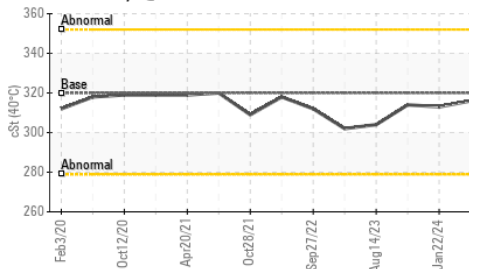
▲ Particle Trend



Acid Number



Viscosity @ 40°C



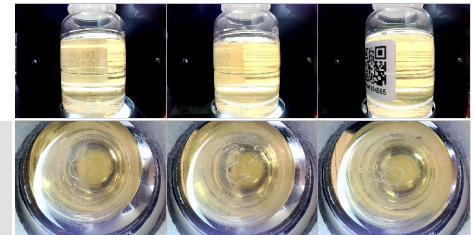
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 320	316	313	314

SAMPLE IMAGES	method	limit/base	current	history1	history2
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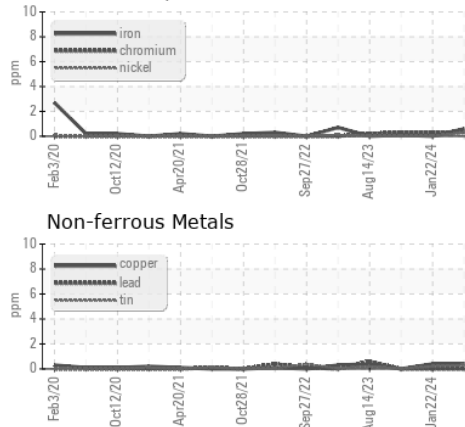
Color

Bottom

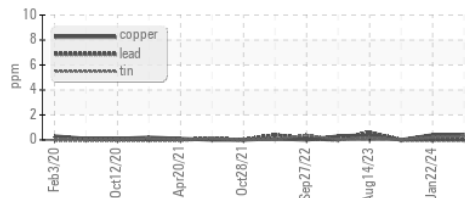


GRAPHS

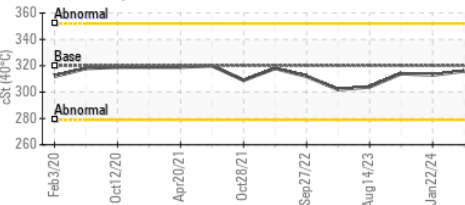
Ferrous Alloys



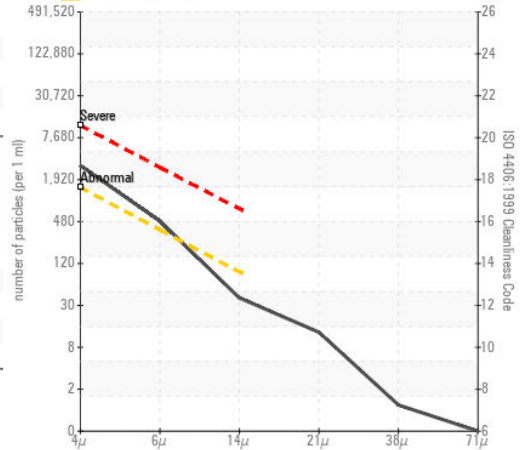
Non-ferrous Metals



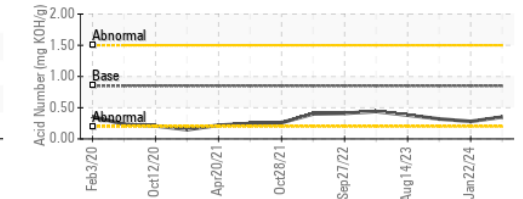
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

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

Sample No. : PCA0117535

Lab Number : 06157657

Unique Number : 10993080

Test Package : IND 2 (Additional Tests: PrtCount)

Received : 23 Apr 2024

Tested : 24 Apr 2024

Diagnosed : 25 Apr 2024 - Angela Borella

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: