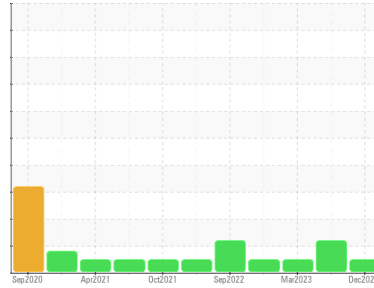


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
Process Cheese [98666552]
 Machine Id
BLENDER 1
 Component
Gearbox
 Fluid
GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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	PCA0114268	PCA0096862	PCA0088293
Sample Date	Client Info	27 Dec 2023	24 May 2023	07 Mar 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Filtered	Filtered	Filtered
Sample Status		NORMAL	ABNORMAL	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	0
Nickel	ppm ASTM D5185m >15	0	0	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m	0	<1	0
Aluminum	ppm ASTM D5185m >25	2	<1	1
Lead	ppm ASTM D5185m >100	0	<1	0
Copper	ppm ASTM D5185m >200	0	0	0
Tin	ppm ASTM D5185m >25	0	<1	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	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	0	<1	0
Manganese	ppm ASTM D5185m	0	<1	0
Magnesium	ppm ASTM D5185m 50	0	10	0
Calcium	ppm ASTM D5185m 50	<1	0	0
Phosphorus	ppm ASTM D5185m 350	451	489	431
Zinc	ppm ASTM D5185m 100	0	7	13
Sulfur	ppm ASTM D5185m 12500	1130	1006	810

CONTAMINANTS

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

FLUID CLEANLINESS

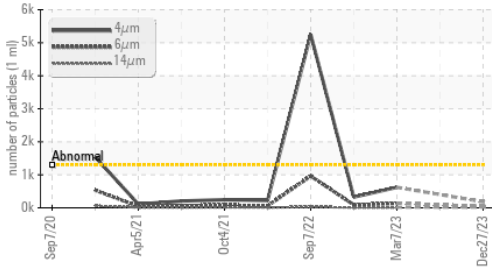
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	183	---	621
Particles >6µm	ASTM D7647 >320	42	---	132
Particles >14µm	ASTM D7647 >80	6	---	7
Particles >21µm	ASTM D7647 >20	3	---	1
Particles >38µm	ASTM D7647 >4	1	---	0
Particles >71µm	ASTM D7647 >3	0	---	0
Oil Cleanliness	ISO 4406 (c) >17/15/13	15/13/10	---	16/14/10

FLUID DEGRADATION

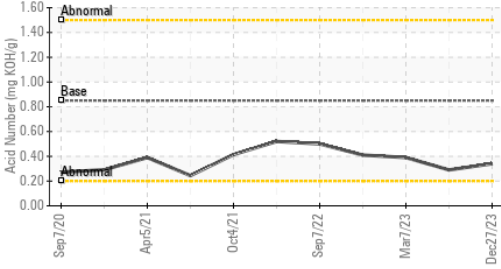
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.85	0.34	0.29	0.39

OIL ANALYSIS REPORT

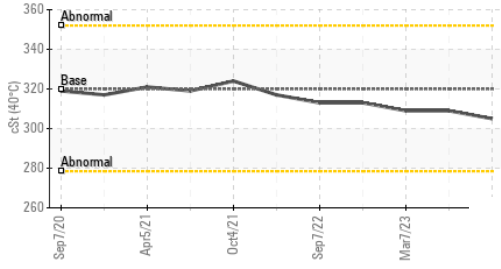
Particle Trend



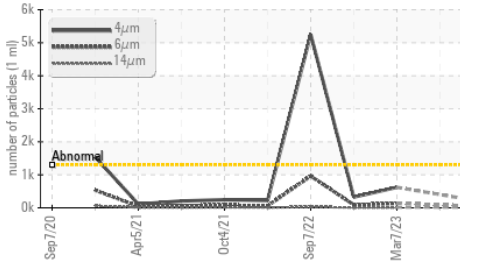
Acid Number



Viscosity @ 40°C



Particle Trend

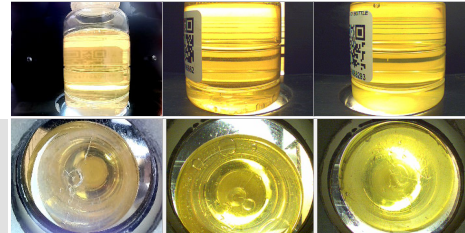


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 320	305	309	309

SAMPLE IMAGES	method	limit/base	current	history1	history2
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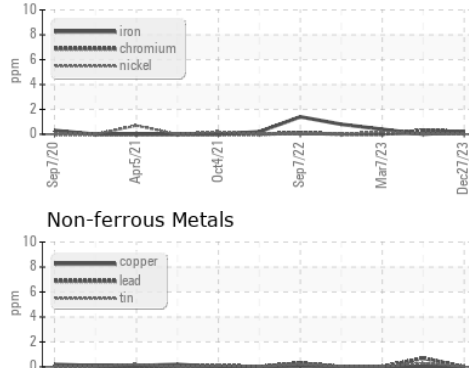
Color



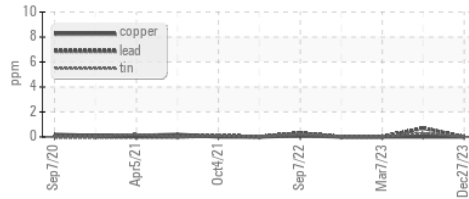
Bottom

GRAPHS

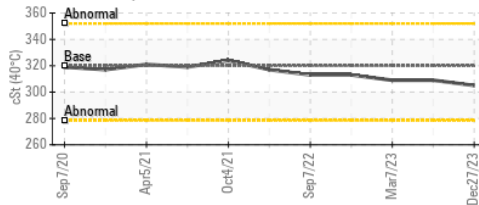
Ferrous Alloys



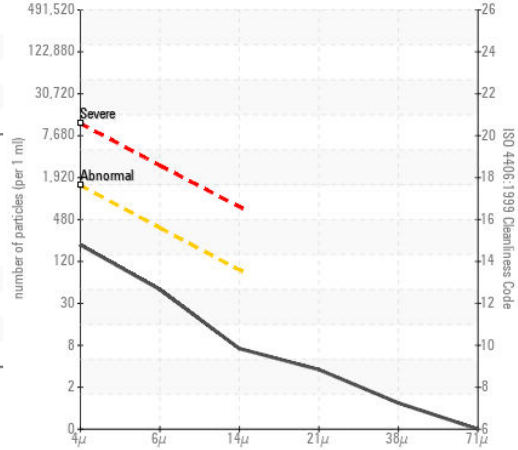
Non-ferrous Metals



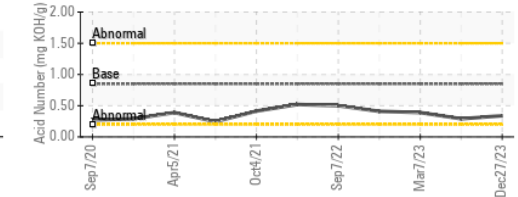
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114268 **Received** : 27 Dec 2023
Lab Number : 06046617 **Diagnosed** : 29 Dec 2023
Unique Number : 10807225 **Diagnostician** : Doug Bogart
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: