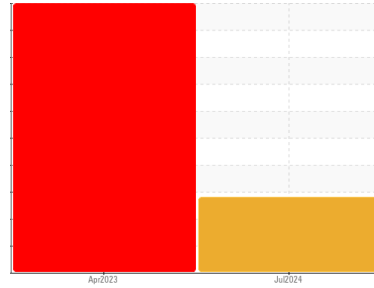




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
TUNNEL 3 SPIRAL 2 OUTFEED

Component
Gearbox

Fluid
AW HYDRAULIC OIL ISO 68 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Bearing and/or gear wear is indicated.

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	USP0012355	USPM20299	---
Sample Date	Client Info	03 Jul 2024	27 Apr 2023	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	SEVERE	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	13	116
Chromium	ppm	ASTM D5185m >15	0	<1
Nickel	ppm	ASTM D5185m >15	3	27
Titanium	ppm	ASTM D5185m	<1	1
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >25	8	▲ 66
Lead	ppm	ASTM D5185m >100	2	6
Copper	ppm	ASTM D5185m >200	▲ 347	▲ 1996
Tin	ppm	ASTM D5185m >25	▲ 43	▲ 287
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<1	1
Barium	ppm	ASTM D5185m 5	0	0
Molybdenum	ppm	ASTM D5185m 5	0	0
Manganese	ppm	ASTM D5185m	<1	1
Magnesium	ppm	ASTM D5185m 25	<1	3
Calcium	ppm	ASTM D5185m 200	11	52
Phosphorus	ppm	ASTM D5185m 300	612	931
Zinc	ppm	ASTM D5185m 370	38	305
Sulfur	ppm	ASTM D5185m 2500	1778	2687

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	6	46
Sodium	ppm	ASTM D5185m	4	43
Potassium	ppm	ASTM D5185m >20	<1	2
Water	%	ASTM D6304 >0.2	0.003	0.024
ppm Water	ppm	ASTM D6304 >2000	33	242.9

FLUID CLEANLINESS

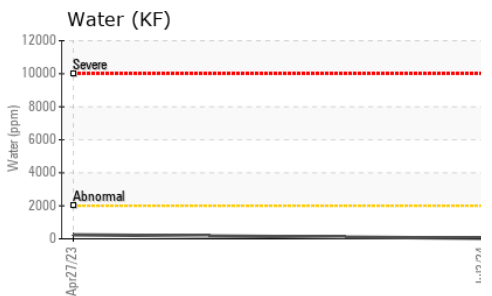
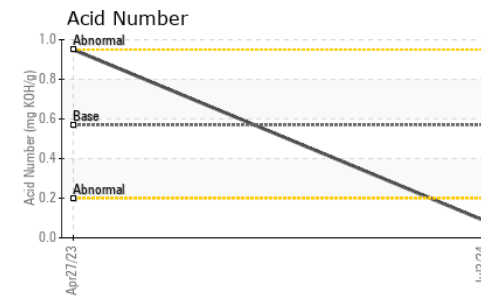
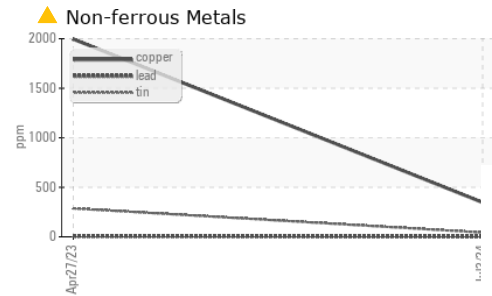
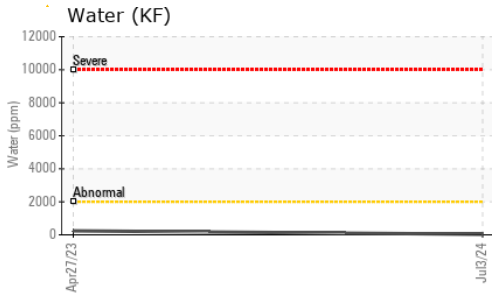
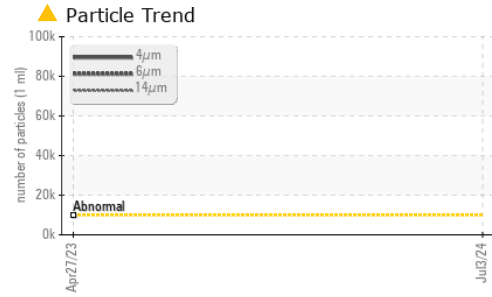
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 91879	---	---
Particles >6µm	ASTM D7647 >2500	▲ 19456	---	---
Particles >14µm	ASTM D7647 >640	156	---	---
Particles >21µm	ASTM D7647 >160	22	---	---
Particles >38µm	ASTM D7647 >40	1	---	---
Particles >71µm	ASTM D7647 >10	0	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/16	▲ 24/21/14	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.09	0.95



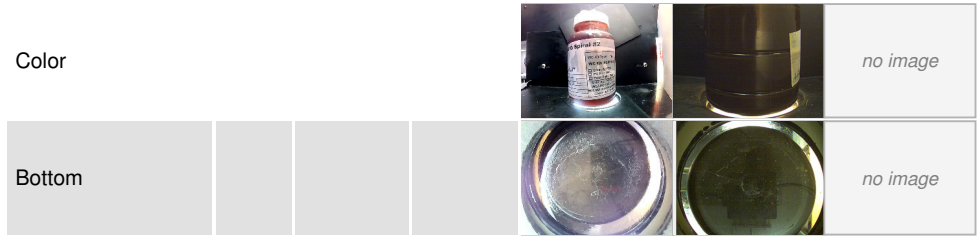
OIL ANALYSIS REPORT



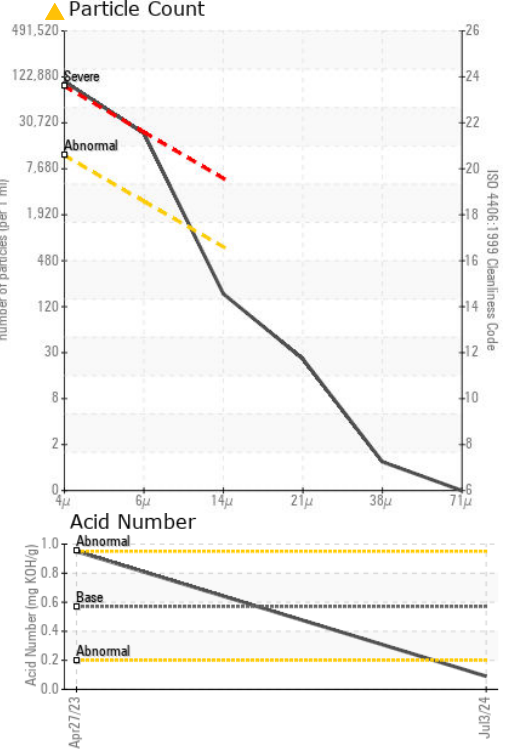
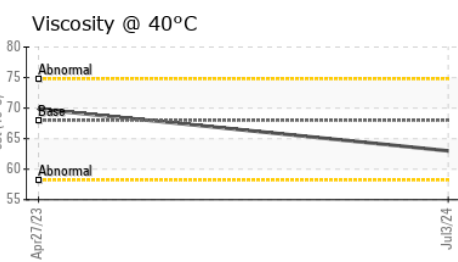
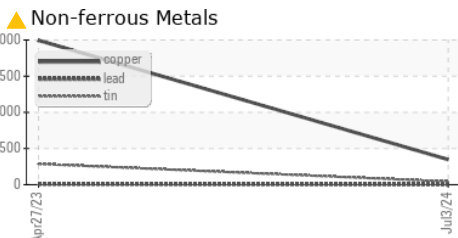
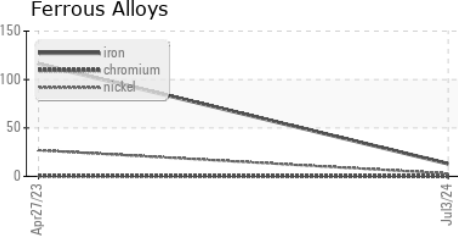
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	▲ HEAVY
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	68	63.0	69.84

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0012355 **Received** : 16 Jul 2024
Lab Number : 06237840 **Tested** : 17 Jul 2024
Unique Number : 11126674 **Diagnosed** : 18 Jul 2024 - Doug Bogart
Test Package : IND 2

KraftHeinz - Avon - Plant 8357
 140 SPRING ST
 AVON, NY
 US 14414
 Contact:

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)