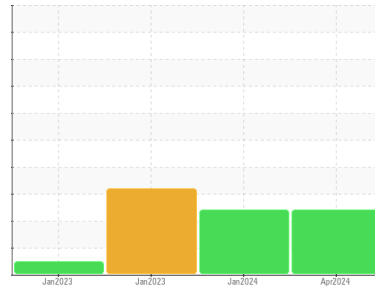




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
PLOGER
 Machine Id
9212 - PLOGER
 Component
Transmission (Manual)
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0900776	WC0900870	WC0797107
Sample Date	Client Info		06 Apr 2024	03 Jan 2024	21 Jan 2023
Machine Age	mls	Client Info	350822	314792	171913
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	102	99	81
Chromium	ppm	ASTM D5185m >5	1	1	2
Nickel	ppm	ASTM D5185m >5	<1	<1	2
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >7	0	0	<1
Aluminum	ppm	ASTM D5185m >25	23	23	18
Lead	ppm	ASTM D5185m >45	<1	0	2
Copper	ppm	ASTM D5185m >225	219	213	▲ 178
Tin	ppm	ASTM D5185m >10	<1	<1	0
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	268	227	217
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	1	1	2
Manganese	ppm	ASTM D5185m	23	22	22
Magnesium	ppm	ASTM D5185m	1	0	7
Calcium	ppm	ASTM D5185m	218	215	208
Phosphorus	ppm	ASTM D5185m	1316	1270	1139
Zinc	ppm	ASTM D5185m	23	12	13
Sulfur	ppm	ASTM D5185m	1112	1050	902

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	8	8	11
Sodium	ppm	ASTM D5185m	4	0	2
Potassium	ppm	ASTM D5185m >20	2	0	2
Water	%	ASTM D6304 >0.1	0.044	0.059	0.053
ppm Water	ppm	ASTM D6304 >1000	447	597	534.2

FLUID CLEANLINESS

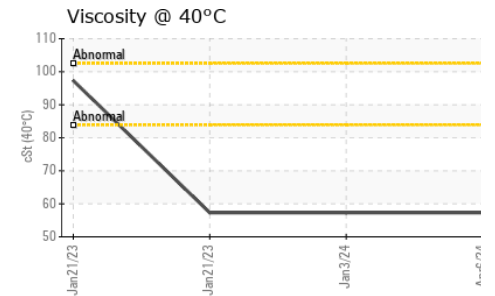
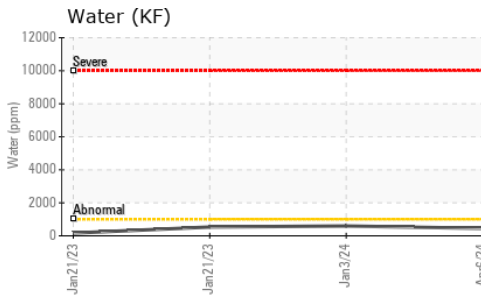
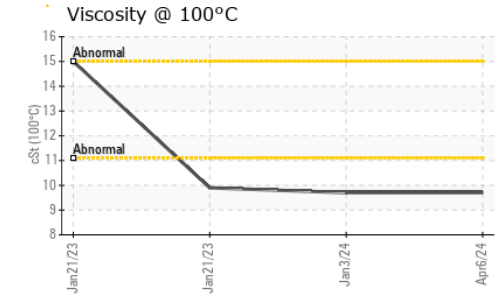
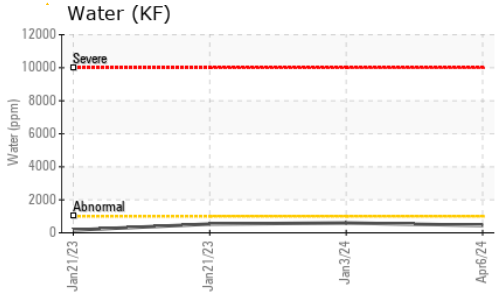
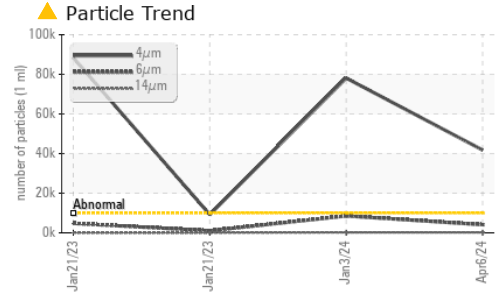
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 41781	▲ 78113	▲ 88413
Particles >6µm	ASTM D7647	>2500	● 4119	▲ 8538	● 4786
Particles >14µm	ASTM D7647	>320	204	204	30
Particles >21µm	ASTM D7647	>80	67	35	9
Particles >38µm	ASTM D7647	>20	3	1	0
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 23/19/15	▲ 23/20/15	▲ 24/19/12

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 3.49	▲ 4.23	▲ 3.47



OIL ANALYSIS REPORT



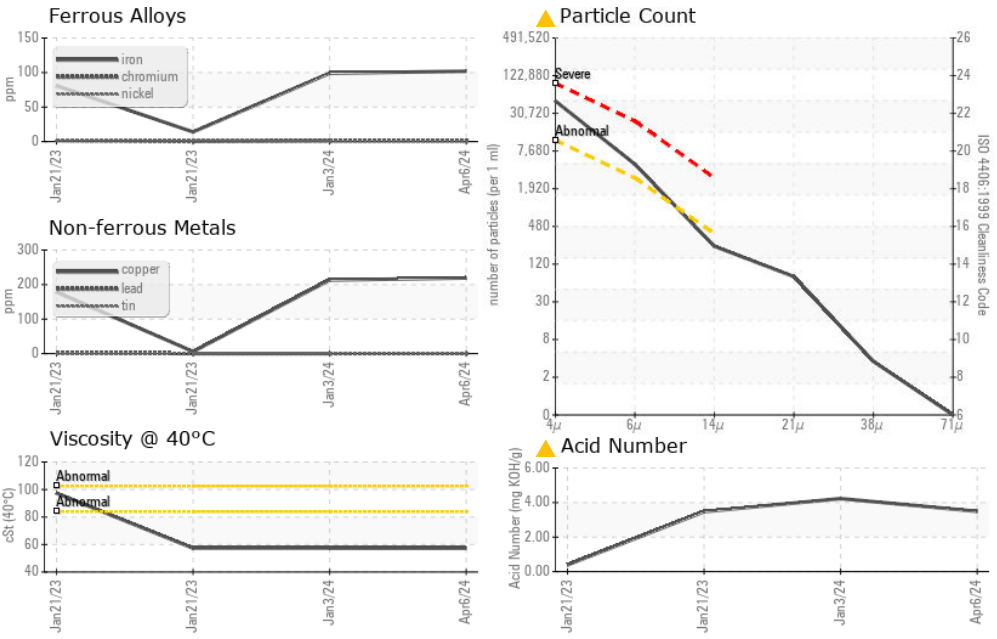
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.3	57.3	57.3
Visc @ 100°C	cSt	ASTM D445	9.7	9.7	9.9
Viscosity Index (VI)	Scale	ASTM D2270	154	154	159

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900776 **Received** : 18 Apr 2024
Lab Number : 06153104 **Tested** : 19 Apr 2024
Unique Number : 10983182 **Diagnosed** : 22 Apr 2024 - Angela Borella
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: GIANNA CREDAROLI
 gianna.credaroli@basf.com

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)