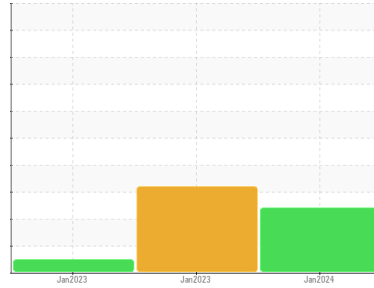




# OIL ANALYSIS REPORT

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.

### 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		<b>WC0900870</b>	WC0797107	WC0797108
Sample Date	Client Info		<b>03 Jan 2024</b>	21 Jan 2023	21 Jan 2023
Machine Age	mls	Client Info	<b>314792</b>	171913	171913
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>99</b>	81	14
Chromium	ppm	ASTM D5185m >5	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	2	2
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >7	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >25	<b>23</b>	18	<1
Lead	ppm	ASTM D5185m >45	<b>0</b>	2	0
Copper	ppm	ASTM D5185m >225	<b>213</b>	▲ 178	6
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>227</b>	217	5
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>1</b>	2	<1
Manganese	ppm	ASTM D5185m	<b>22</b>	22	2
Magnesium	ppm	ASTM D5185m	<b>0</b>	7	8
Calcium	ppm	ASTM D5185m	<b>215</b>	208	732
Phosphorus	ppm	ASTM D5185m	<b>1270</b>	1139	591
Zinc	ppm	ASTM D5185m	<b>12</b>	13	0
Sulfur	ppm	ASTM D5185m	<b>1050</b>	902	3495

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	<b>8</b>	11	21
Sodium	ppm	ASTM D5185m	<b>0</b>	2	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	1
Water	%	ASTM D6304 >0.1	<b>0.059</b>	0.053	0.016
ppm Water	ppm	ASTM D6304 >1000	<b>597</b>	534.2	166.4

## FLUID CLEANLINESS

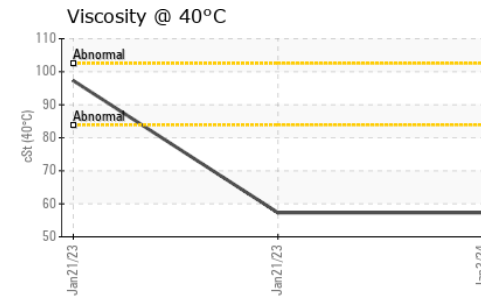
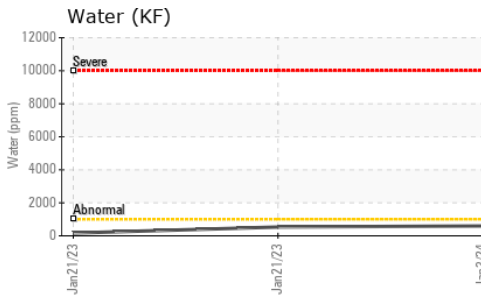
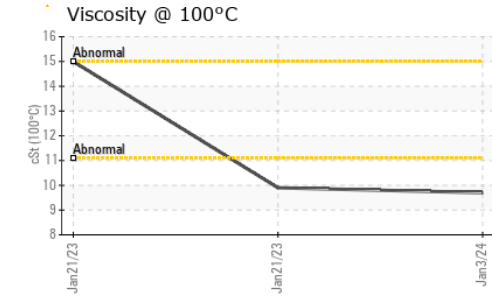
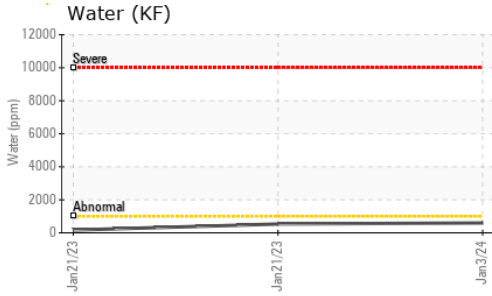
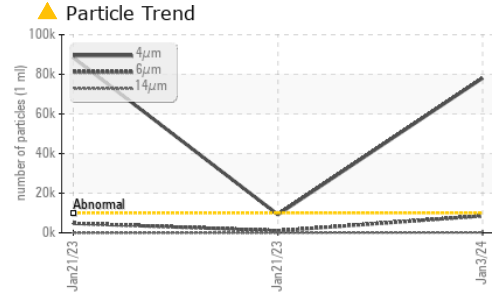
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>78113</b>	▲ 88413	9196
Particles >6µm	ASTM D7647	>2500	▲ <b>8538</b>	● 4786	1046
Particles >14µm	ASTM D7647	>320	<b>204</b>	30	26
Particles >21µm	ASTM D7647	>80	<b>35</b>	9	5
Particles >38µm	ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>23/20/15</b>	▲ 24/19/12	20/17/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ <b>4.23</b>	▲ 3.47	0.39



# OIL ANALYSIS REPORT

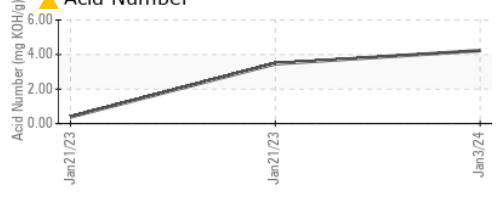
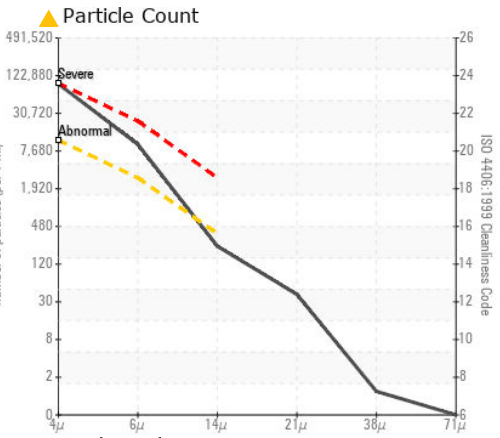
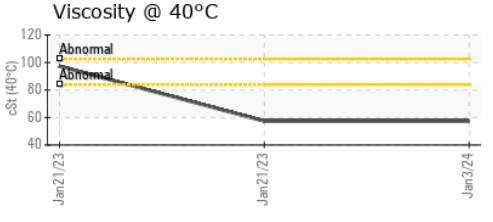
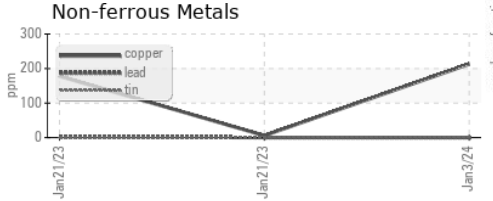
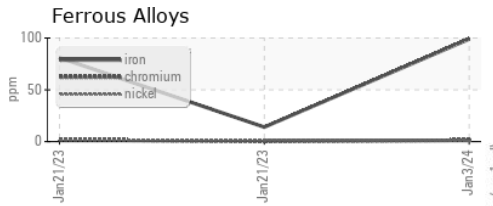


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	97.3
Visc @ 100°C	cSt	ASTM D445	9.7	9.9	15.0
Viscosity Index (VI)	Scale	ASTM D2270	154	159	161

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0900870 **Received** : 19 Mar 2024  
**Lab Number** : 06123127 **Tested** : 22 Mar 2024  
**Unique Number** : 10937278 **Diagnosed** : 22 Mar 2024 - Jonathan Hester  
**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)