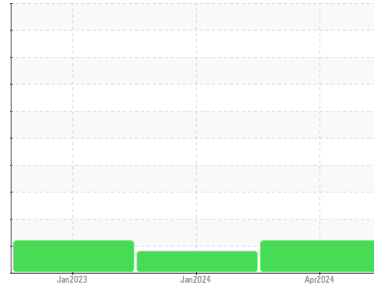




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Area  
**PLOGER**  
 Machine Id  
**9212 - PLOGER**  
 Component  
**Rear Differential**  
 Fluid  
**{not provided} (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. 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 suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0900789</b>	WC0900851	WC0797109
Sample Date	Client Info		<b>06 Apr 2024</b>	03 Jan 2024	21 Jan 2023
Machine Age	mls	Client Info	<b>350822</b>	314792	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	ABNORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>323</b>	320	317
Chromium	ppm	ASTM D5185m >10	<b>3</b>	3	4
Nickel	ppm	ASTM D5185m >10	<b>6</b>	5	6
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	1	2
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >100	<b>4</b>	4	3
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>85</b>	78	93
Barium	ppm	ASTM D5185m	<b>0</b>	0	13
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>9</b>	9	10
Magnesium	ppm	ASTM D5185m	<b>175</b>	168	205
Calcium	ppm	ASTM D5185m	<b>11</b>	8	12
Phosphorus	ppm	ASTM D5185m	<b>1737</b>	1687	1855
Zinc	ppm	ASTM D5185m	<b>2</b>	4	6
Sulfur	ppm	ASTM D5185m	<b>29632</b>	29075	25056

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>23</b>	24	24
Sodium	ppm	ASTM D5185m	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m >20	<b>5</b>	<1	4
Water	%	ASTM D6304 >.2	<b>0.039</b>	0.026	0.029
ppm Water	ppm	ASTM D6304 >2000	<b>391</b>	267	299.5

### FLUID CLEANLINESS

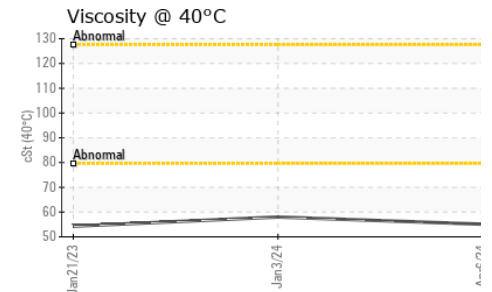
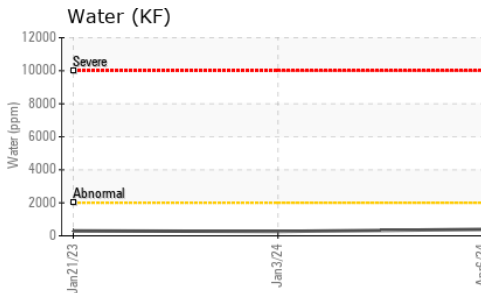
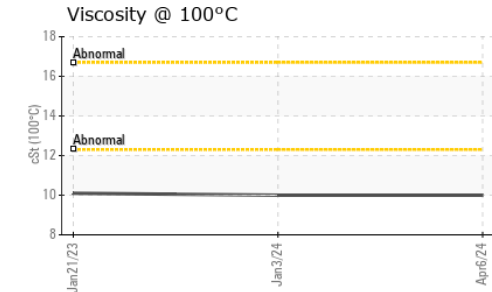
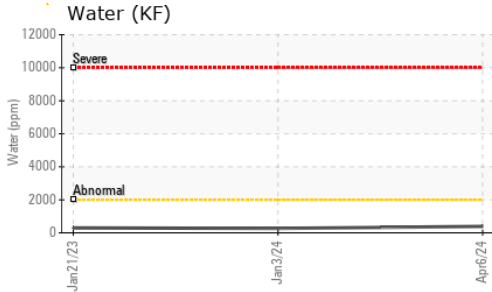
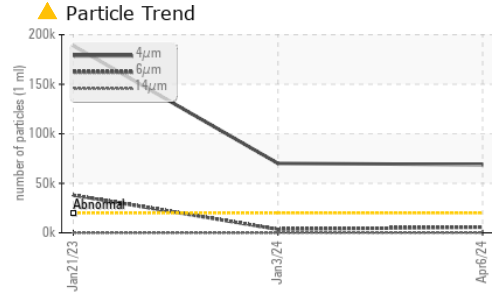
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 68849</b>	▲ 70110	▲ 188871
Particles >6µm	ASTM D7647	>5000	<b>● 5711</b>	3510	▲ 38016
Particles >14µm	ASTM D7647	>640	<b>85</b>	60	115
Particles >21µm	ASTM D7647	>160	<b>14</b>	14	20
Particles >38µm	ASTM D7647	>40	<b>1</b>	0	1
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 23/20/14</b>	▲ 23/19/13	▲ 25/22/14

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.78</b>	0.94	0.73



# OIL ANALYSIS REPORT



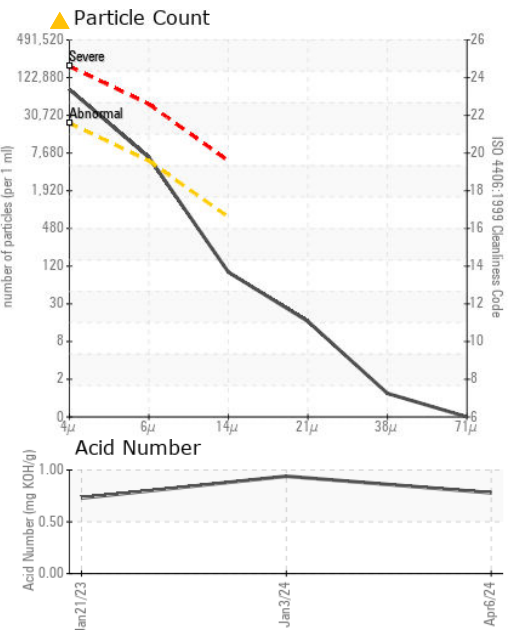
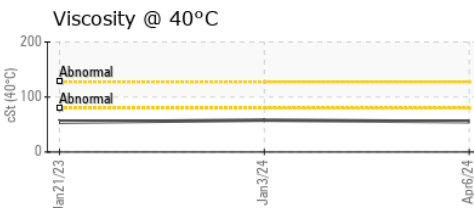
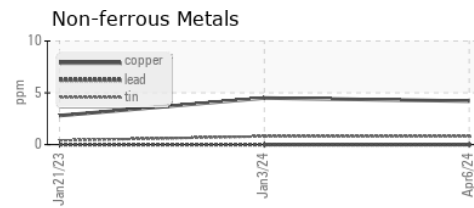
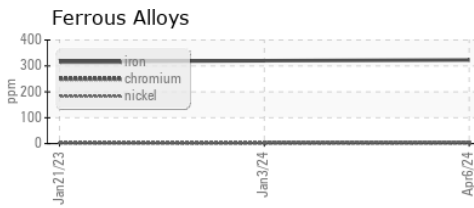
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.1	58.0	54.3
Visc @ 100°C	cSt	ASTM D445	10.0	10.0	10.1
Viscosity Index (VI)	Scale	ASTM D2270	170	159	176

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



Certificate L2367

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

Sample No. : WC0900789

Lab Number : 06151069

Unique Number : 10981147

Test Package : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

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)

Received : 16 Apr 2024

Tested : 18 Apr 2024

Diagnosed : 19 Apr 2024 - Don Baldrige

BASF - GIANNA CREDAROLI

500 WHITE PLAINS RD

TARRYTOWN, NY

US 10591

Contact: GIANNA CREDAROLI

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