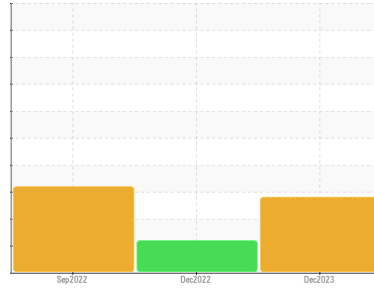




OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Area
PLOGER
 Machine Id
9211 - 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 particulates 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		WC0900775	WC0771197	WC0728474
Sample Date	Client Info		29 Dec 2023	16 Dec 2022	14 Sep 2022
Machine Age	mls	Client Info	349550	183602	149552
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	93	77	79
Chromium	ppm	ASTM D5185m >5	1	1	2
Nickel	ppm	ASTM D5185m >5	1	0	3
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m >7	0	0	0
Aluminum	ppm	ASTM D5185m >25	19	16	16
Lead	ppm	ASTM D5185m >45	<1	<1	<1
Copper	ppm	ASTM D5185m >225	185	147	134
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	261	221	205
Barium	ppm	ASTM D5185m	0	2	2
Molybdenum	ppm	ASTM D5185m	<1	2	2
Manganese	ppm	ASTM D5185m	23	22	24
Magnesium	ppm	ASTM D5185m	4	2	2
Calcium	ppm	ASTM D5185m	220	200	226
Phosphorus	ppm	ASTM D5185m	1288	1159	1317
Zinc	ppm	ASTM D5185m	36	26	26
Sulfur	ppm	ASTM D5185m	1237	863	1223

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >125	7	10	16
Sodium	ppm	ASTM D5185m	4	<1	4
Potassium	ppm	ASTM D5185m >20	3	2	2
Water	%	ASTM D6304 >0.1	0.056	0.074	0.077
ppm Water	ppm	ASTM D6304 >1000	569	742.9	772.0

FLUID CLEANLINESS

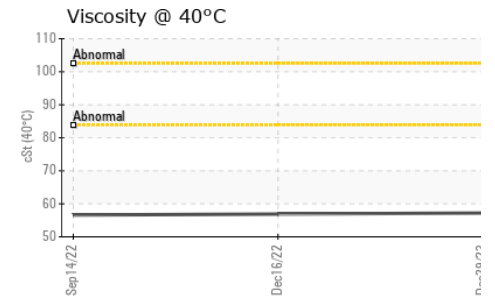
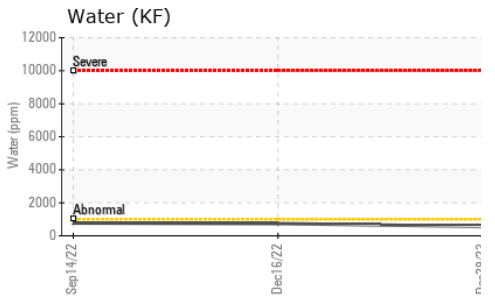
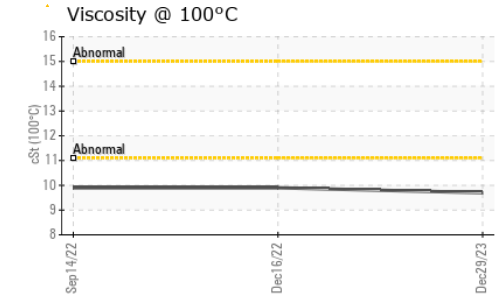
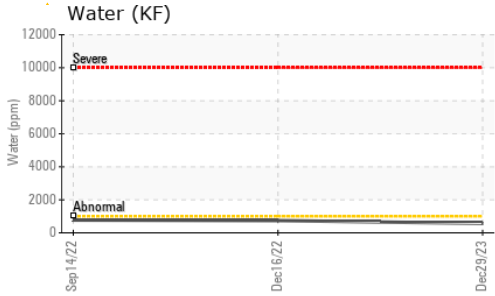
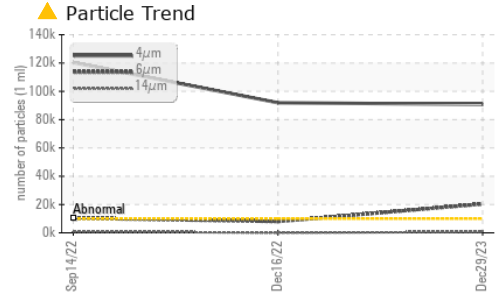
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 90773	▲ 91911	▲ 120353
Particles >6µm	ASTM D7647	>2500	▲ 20392	▲ 7981	▲ 10394
Particles >14µm	ASTM D7647	>320	● 614	75	▲ 909
Particles >21µm	ASTM D7647	>80	89	8	▲ 181
Particles >38µm	ASTM D7647	>20	1	1	0
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 24/22/16	▲ 24/20/13	▲ 24/21/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 3.65	3.249	▲ 3.80



OIL ANALYSIS REPORT

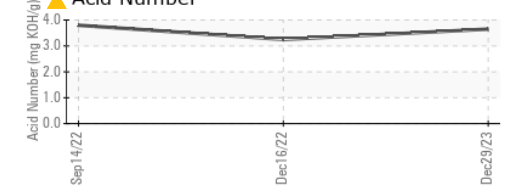
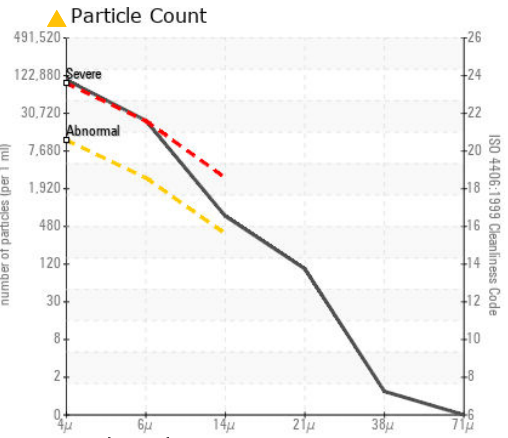
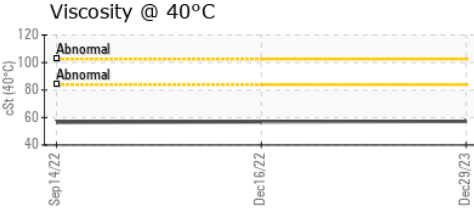
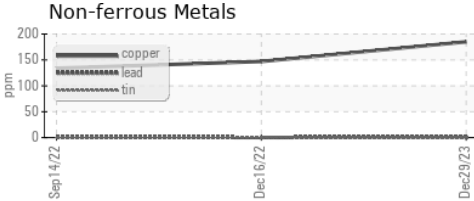
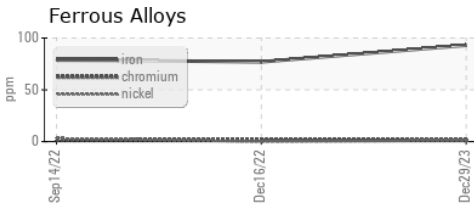


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	57.2	56.9	56.6
Visc @ 100°C	cSt	ASTM D445	9.7	9.9	9.9
Viscosity Index (VI)	Scale	ASTM D2270	154	161	162

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900775 **Received** : 18 Apr 2024
Lab Number : 06153098 **Tested** : 22 Apr 2024
Unique Number : 10983176 **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)