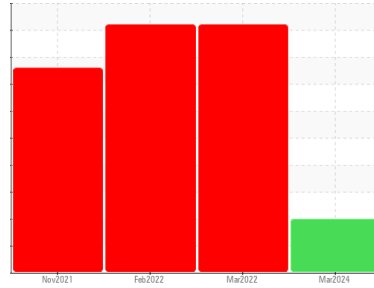




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
PLOGER
 Machine Id
116 - PLOGER
 Component
Front Differential
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for laboratory data updates.

Wear

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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0900798	WC0692911	WC0666383
Sample Date	Client Info		07 Mar 2024	14 Mar 2022	19 Feb 2022
Machine Age	mls	Client Info	781258	685087	679869
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	SEVERE	SEVERE

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 505	▲ 1923	▲ 1878
Chromium	ppm	ASTM D5185m >10	3	10	10
Nickel	ppm	ASTM D5185m >10	<1	2	2
Titanium	ppm	ASTM D5185m	<1	1	1
Silver	ppm	ASTM D5185m	0	<1	2
Aluminum	ppm	ASTM D5185m >25	2	17	16
Lead	ppm	ASTM D5185m >25	<1	<1	<1
Copper	ppm	ASTM D5185m >100	2	7	7
Tin	ppm	ASTM D5185m >10	0	0	0
Antimony	ppm	ASTM D5185m >5	---	---	<1
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	<1	<1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	44	286	332
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	2	2
Manganese	ppm	ASTM D5185m	7	30	30
Magnesium	ppm	ASTM D5185m	32	145	144
Calcium	ppm	ASTM D5185m	15	140	121
Phosphorus	ppm	ASTM D5185m	339	1597	1564
Zinc	ppm	ASTM D5185m	0	20	21
Sulfur	ppm	ASTM D5185m	5596	19812	17383

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	20	▲ 109	▲ 107
Sodium	ppm	ASTM D5185m	1	71	67
Potassium	ppm	ASTM D5185m >20	34	397	416
Water	%	ASTM D6304 >.2	0.024	▲ 0.479	▲ 0.692
ppm Water	ppm	ASTM D6304 >2000	242	▲ 4790	▲ 6920

FLUID CLEANLINESS

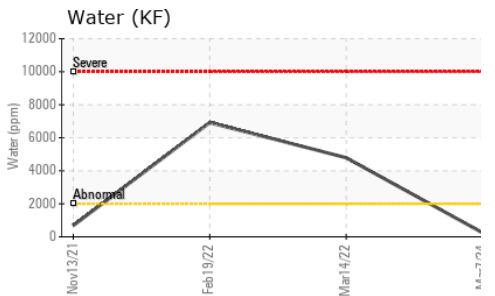
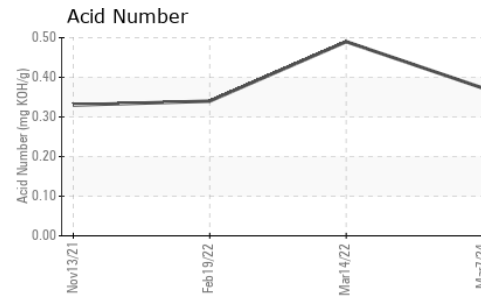
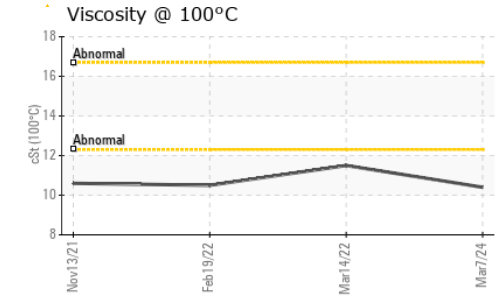
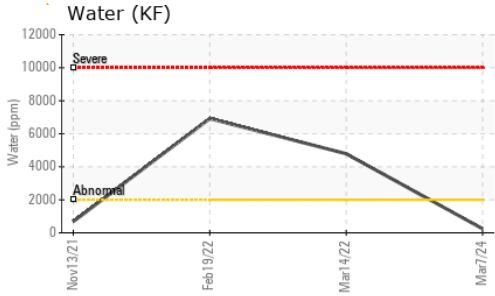
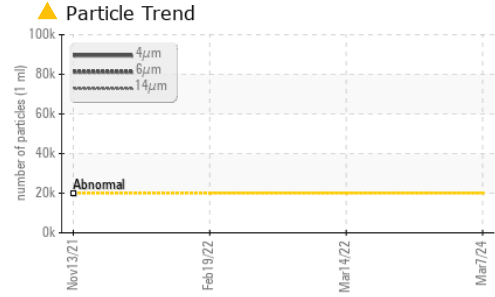
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 84044	---	---
Particles >6µm	ASTM D7647	>5000	▲ 10208	---	---
Particles >14µm	ASTM D7647	>640	253	---	---
Particles >21µm	ASTM D7647	>160	63	---	---
Particles >38µm	ASTM D7647	>40	2	---	---
Particles >71µm	ASTM D7647	>10	0	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/21/15	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.373	0.49	0.34



OIL ANALYSIS REPORT

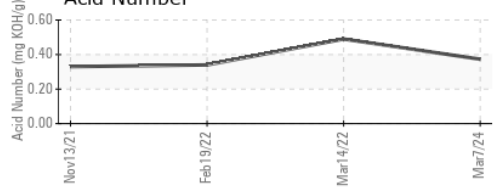
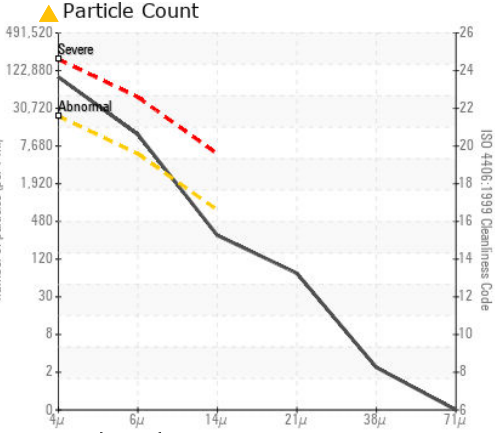
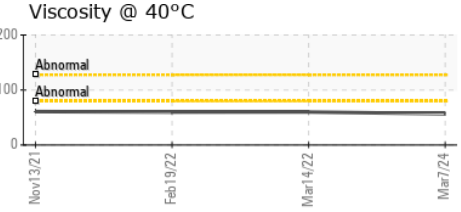
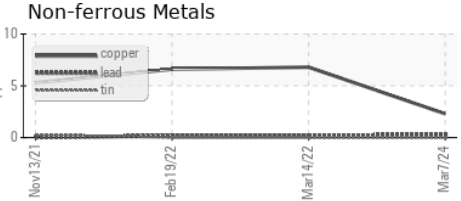
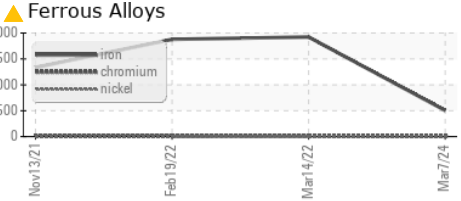


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	56.7	60.1	59.9
Visc @ 100°C	cSt	ASTM D445	10.4	11.5	10.5
Viscosity Index (VI)	Scale	ASTM D2270	174	189	166

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900798 **Received** : 16 Apr 2024
Lab Number : 06151064 **Tested** : 22 Apr 2024
Unique Number : 10981142 **Diagnosed** : 22 Apr 2024 - Doug Bogart
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)