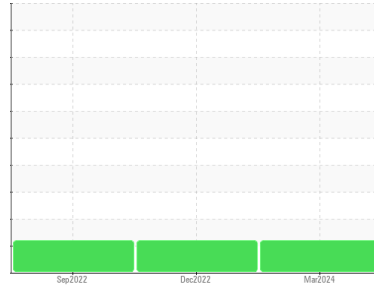




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
PLOGER
 Machine Id
9211 - PLOGER
 Component
Front Differential
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.

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			WC0900792	WC0771196	WC0728459
Sample Date	Client Info			29 Mar 2024	15 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	>500	407	310	283
Chromium	ppm	ASTM D5185m	>10	4	3	3
Nickel	ppm	ASTM D5185m	>10	6	3	5
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	9	13	16
Lead	ppm	ASTM D5185m	>25	11	2	2
Copper	ppm	ASTM D5185m	>100	24	20	20
Tin	ppm	ASTM D5185m	>10	2	2	2
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		66	64	64
Barium	ppm	ASTM D5185m		<1	3	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		15	11	11
Magnesium	ppm	ASTM D5185m		166	143	151
Calcium	ppm	ASTM D5185m		17	12	0
Phosphorus	ppm	ASTM D5185m		1716	1418	1567
Zinc	ppm	ASTM D5185m		9	12	0
Sulfur	ppm	ASTM D5185m		29133	24052	25056

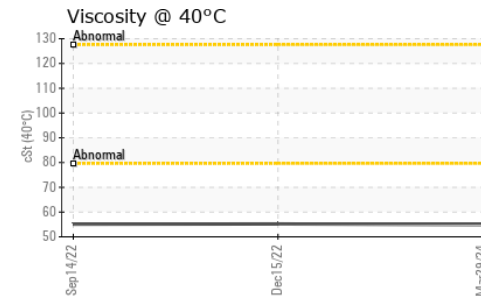
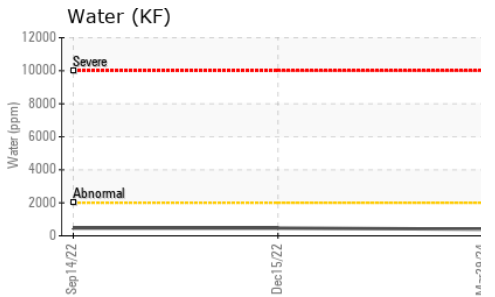
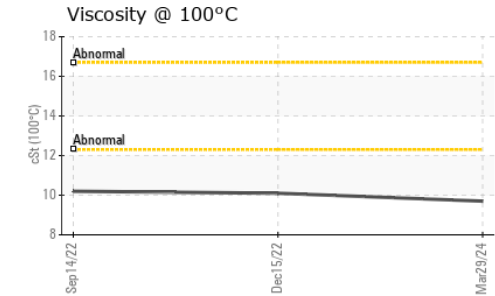
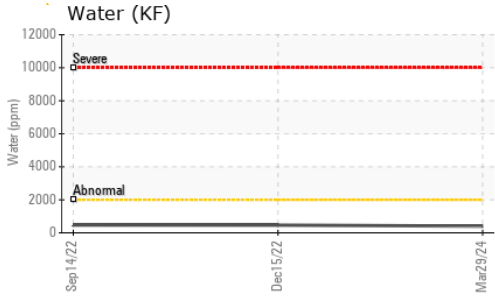
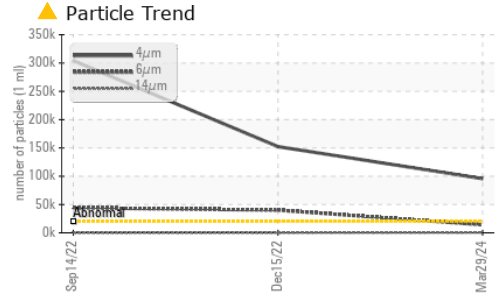
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	56	32	30
Sodium	ppm	ASTM D5185m		7	3	5
Potassium	ppm	ASTM D5185m	>20	4	2	2
Water	%	ASTM D6304	>.2	0.040	0.046	0.047
ppm Water	ppm	ASTM D6304	>2000	402	468.0	473.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 95730	▲ 152304	▲ 304252
Particles >6µm		ASTM D7647	>5000	▲ 14126	▲ 40017	▲ 44166
Particles >14µm		ASTM D7647	>640	314	92	64
Particles >21µm		ASTM D7647	>160	61	7	17
Particles >38µm		ASTM D7647	>40	2	0	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 24/21/15	▲ 24/23/14	▲ 25/23/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.07	1.25	0.87



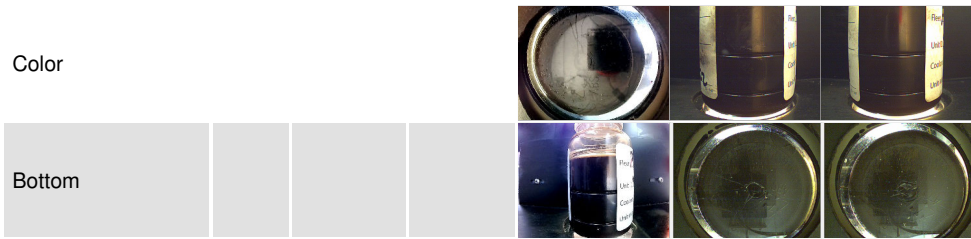
OIL ANALYSIS REPORT



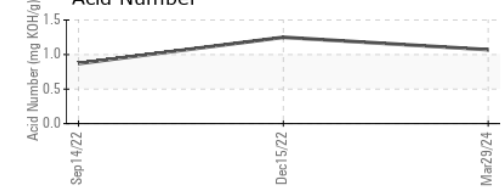
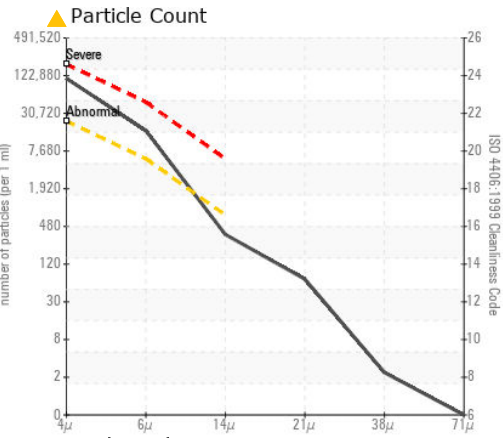
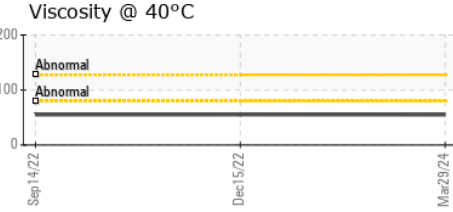
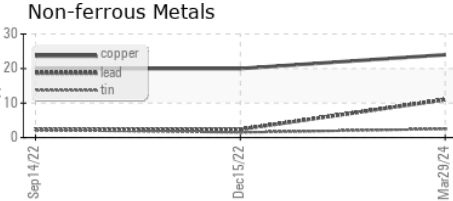
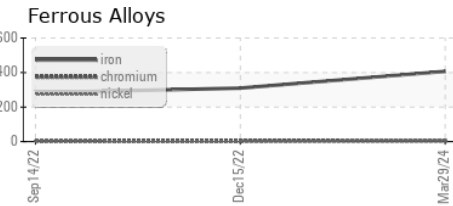
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	54.9	55.2	55.1
Visc @ 100°C	cSt	ASTM D445	9.7	10.1	10.2
Viscosity Index (VI)	Scale	ASTM D2270	163	172	175

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900792 **Received** : 16 Apr 2024
Lab Number : 06151067 **Tested** : 22 Apr 2024
Unique Number : 10981145 **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)