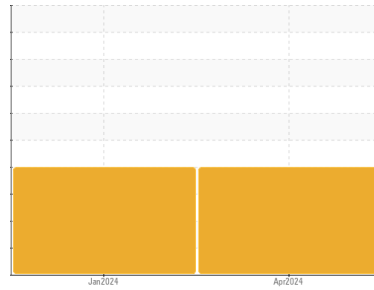




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
PLOGER
 Machine Id
9212 - 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.

Wear

Bearing and/or gear wear is indicated.

Contamination

There is a moderate 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		WC0900790	WC0900852	---
Sample Date	Client Info		06 Apr 2024	03 Jan 2024	---
Machine Age	mls	Client Info	350822	314792	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 564	▲ 583	---
Chromium	ppm	ASTM D5185m >10	6	6	---
Nickel	ppm	ASTM D5185m >10	6	5	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	2	<1	---
Lead	ppm	ASTM D5185m >25	▲ 25	21	---
Copper	ppm	ASTM D5185m >100	▲ 136	▲ 159	---
Tin	ppm	ASTM D5185m >10	▲ 17	▲ 17	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	58	56	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	0	1	---
Manganese	ppm	ASTM D5185m	15	14	---
Magnesium	ppm	ASTM D5185m	167	168	---
Calcium	ppm	ASTM D5185m	14	11	---
Phosphorus	ppm	ASTM D5185m	1722	1676	---
Zinc	ppm	ASTM D5185m	7	10	---
Sulfur	ppm	ASTM D5185m	28798	27984	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	42	44	---
Sodium	ppm	ASTM D5185m	6	5	---
Potassium	ppm	ASTM D5185m >20	4	0	---
Water	%	ASTM D6304 >.2	0.040	0.033	---
ppm Water	ppm	ASTM D6304 >2000	408	338	---

FLUID CLEANLINESS

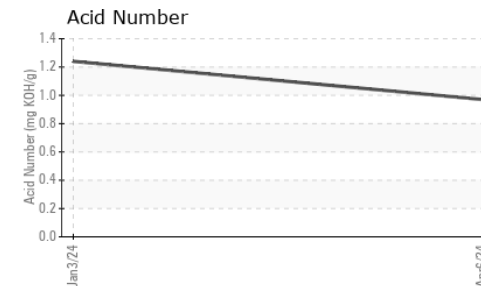
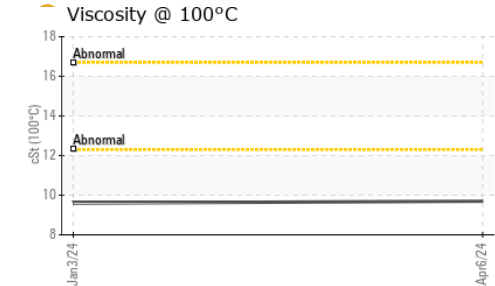
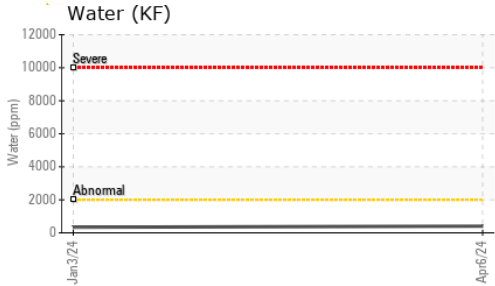
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	● 21507	▲ 75925	---
Particles >6µm	ASTM D7647	>5000	2064	▲ 14088	---
Particles >14µm	ASTM D7647	>640	56	▲ 654	---
Particles >21µm	ASTM D7647	>160	12	145	---
Particles >38µm	ASTM D7647	>40	1	6	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	● 22/18/13	▲ 23/21/17	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.97	1.24	---



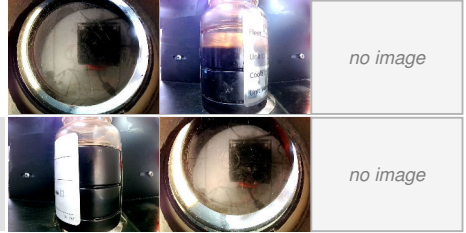
OIL ANALYSIS REPORT



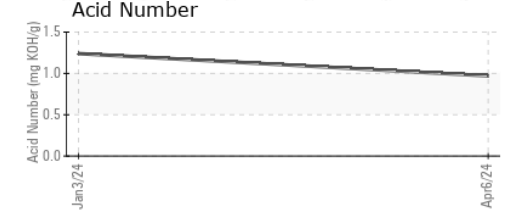
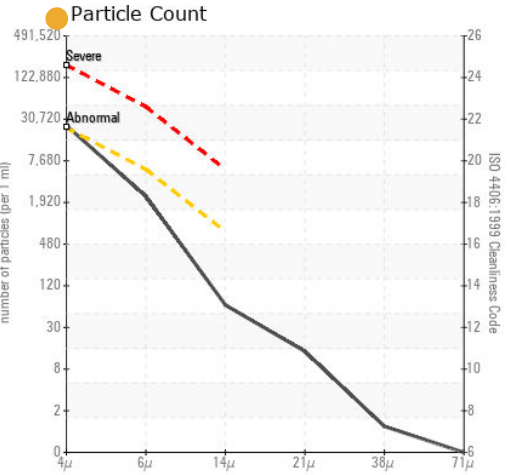
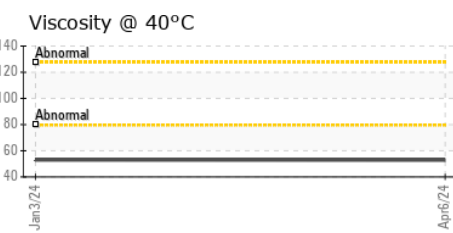
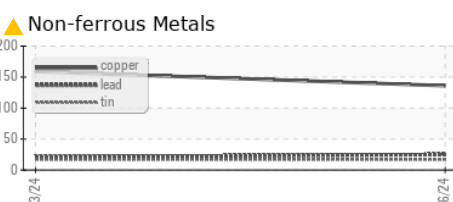
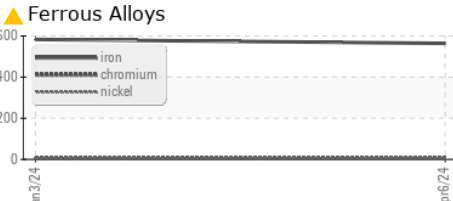
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	52.9	53.0	---
Visc @ 100°C	cSt	ASTM D445	9.7	9.6	---
Viscosity Index (VI)	Scale	ASTM D2270	170	167	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900790 **Received** : 16 Apr 2024
Lab Number : 06151065 **Tested** : 18 Apr 2024
Unique Number : 10981143 **Diagnosed** : 19 Apr 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
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 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)