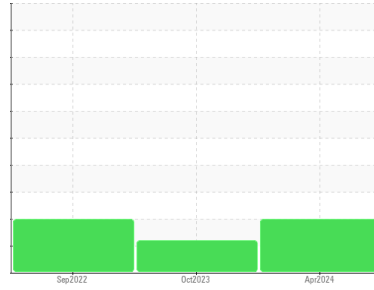




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
VENEZIA
 Machine Id
VENEZIA 2269
 Component
Rear Differential
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris 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		WC0934467	WC0876084	WC0751700
Sample Date	Client Info		01 Apr 2024	17 Oct 2023	26 Sep 2022
Machine Age	mls	Client Info	102273	71075	114
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	201	225	14
Chromium	ppm	ASTM D5185m >10	2	3	0
Nickel	ppm	ASTM D5185m >10	7	6	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	34	28	<1
Lead	ppm	ASTM D5185m >25	0	<1	0
Copper	ppm	ASTM D5185m >100	<1	1	0
Tin	ppm	ASTM D5185m >10	1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	128	125	114
Barium	ppm	ASTM D5185m	2	9	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	9	9	<1
Magnesium	ppm	ASTM D5185m	135	135	162
Calcium	ppm	ASTM D5185m	14	11	6
Phosphorus	ppm	ASTM D5185m	1615	1632	1652
Zinc	ppm	ASTM D5185m	9	5	2
Sulfur	ppm	ASTM D5185m	29900	28534	28635

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	51	48	9
Sodium	ppm	ASTM D5185m	6	<1	2
Potassium	ppm	ASTM D5185m >20	2	2	0
Water	%	ASTM D6304 >.2	0.024	0.028	0.035
ppm Water	ppm	ASTM D6304 >2000	244	287	357.3

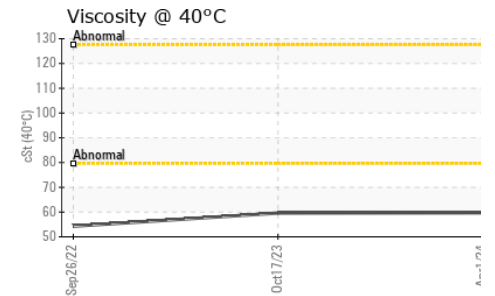
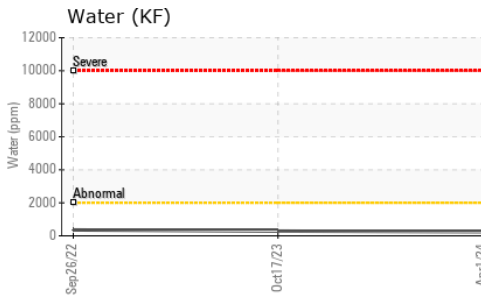
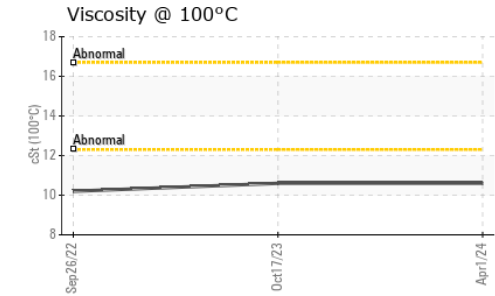
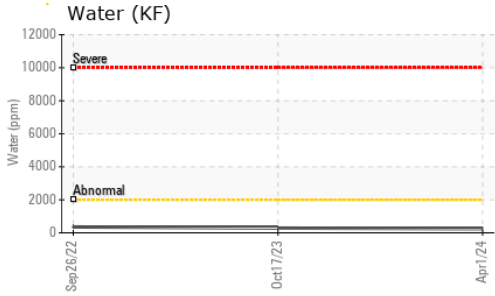
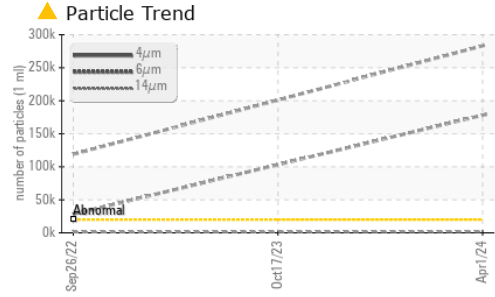
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 283176	---	▲ 118959
Particles >6µm	ASTM D7647	>5000	▲ 178212	---	▲ 28221
Particles >14µm	ASTM D7647	>640	▲ 1766	---	▲ 1017
Particles >21µm	ASTM D7647	>160	96	---	▲ 201
Particles >38µm	ASTM D7647	>40	1	---	23
Particles >71µm	ASTM D7647	>10	0	---	3
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/25/18	---	▲ 24/22/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.19	1.02	0.77

OIL ANALYSIS REPORT

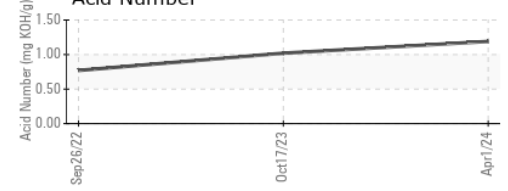
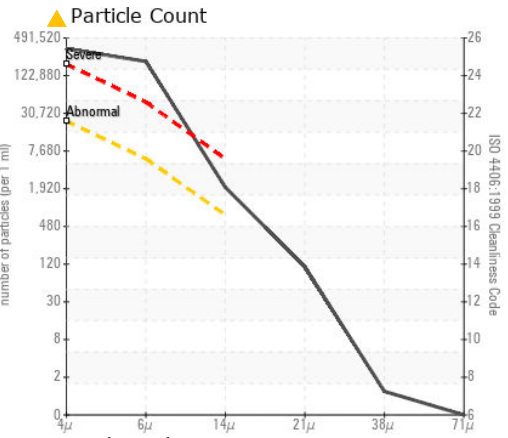
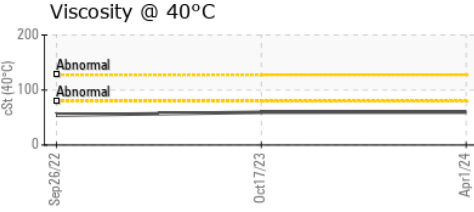
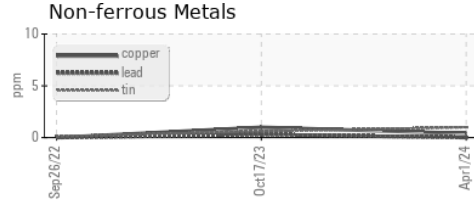
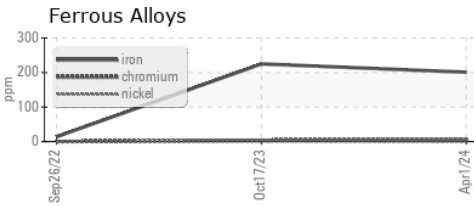


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ HEAVY	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	59.7	59.6	54.3
Visc @ 100°C	cSt	ASTM D445	10.6	10.6	10.2
Viscosity Index (VI)	Scale	ASTM D2270	169	169	178

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0934467 **Received** : 14 May 2024
Lab Number : 06179392 **Tested** : 16 May 2024
Unique Number : 11030718 **Diagnosed** : 16 May 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)