

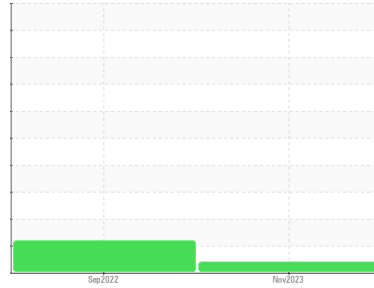


OIL ANALYSIS REPORT

Sample Rating Trend

VIS DEBRIS

Area
VENEZIA
 Machine Id
VENEZIA 2298
 Component
Rear Differential
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

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		WC0876019	WC0751708	---
Sample Date	Client Info		02 Nov 2023	30 Sep 2022	---
Machine Age	mls	Client Info	99109	2141	---
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	223	17	---
Chromium	ppm	ASTM D5185m	>10	3	0	---
Nickel	ppm	ASTM D5185m	>10	6	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	7	<1	---
Lead	ppm	ASTM D5185m	>25	0	0	---
Copper	ppm	ASTM D5185m	>100	<1	0	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		118	113	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		12	1	---
Magnesium	ppm	ASTM D5185m		153	167	---
Calcium	ppm	ASTM D5185m		6	2	---
Phosphorus	ppm	ASTM D5185m		1694	1657	---
Zinc	ppm	ASTM D5185m		0	<1	---
Sulfur	ppm	ASTM D5185m		24818	28437	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	23	6	---
Sodium	ppm	ASTM D5185m		4	1	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water	%	ASTM D6304	>.2	0.031	0.042	---
ppm Water	ppm	ASTM D6304	>2000	317	422.0	---

FLUID CLEANLINESS

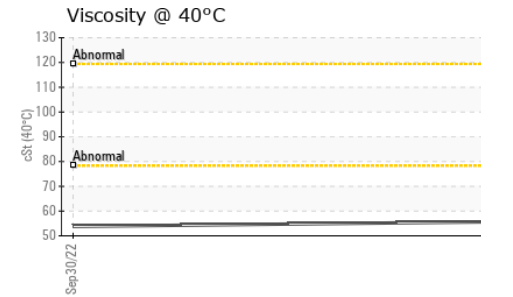
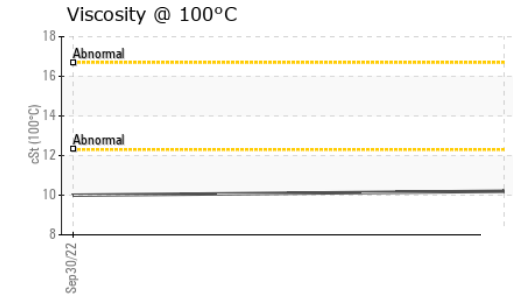
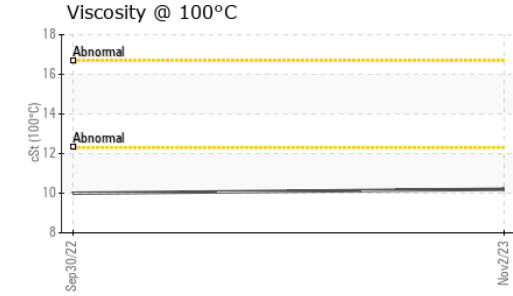
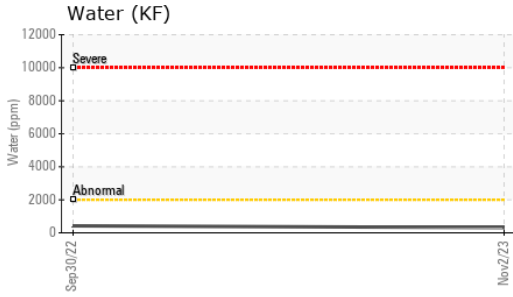
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 131811	---
Particles >6µm	ASTM D7647	>5000	---	▲ 26183	---
Particles >14µm	ASTM D7647	>640	---	450	---
Particles >21µm	ASTM D7647	>160	---	57	---
Particles >38µm	ASTM D7647	>40	---	4	---
Particles >71µm	ASTM D7647	>10	---	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 24/22/16	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.78	0.72	---



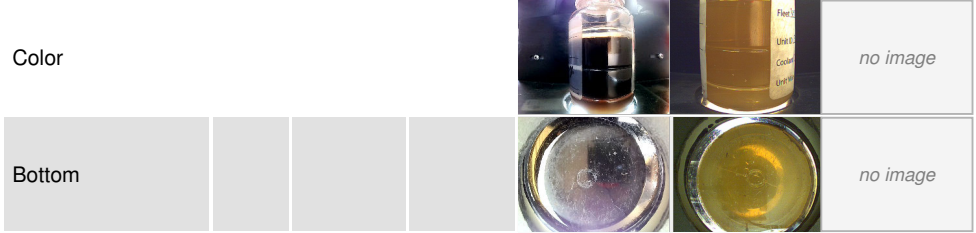
OIL ANALYSIS REPORT



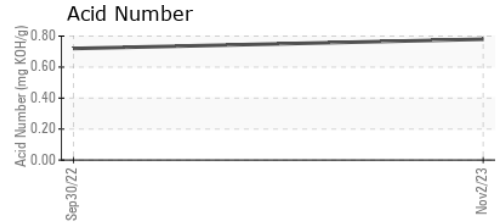
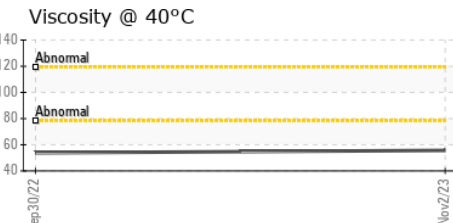
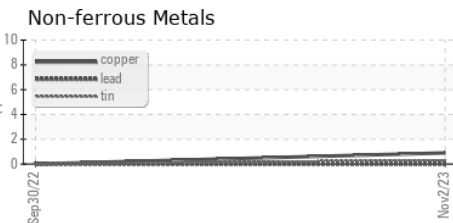
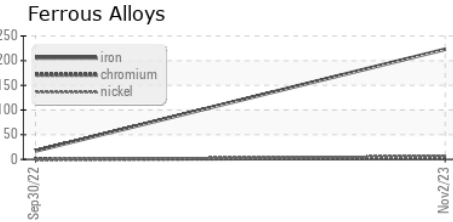
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	---
Sand/Dirt	scalar	*Visual	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	55.7	53.8	---
Visc @ 100°C	cSt	ASTM D445	10.2	10.0	---
Viscosity Index (VI)	Scale	ASTM D2270	173	175	---

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0876019 **Received** : 05 Dec 2023
Lab Number : 06025713 **Diagnosed** : 07 Dec 2023
Unique Number : 10770213 **Diagnostician** : Don Baldrige
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)

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F: