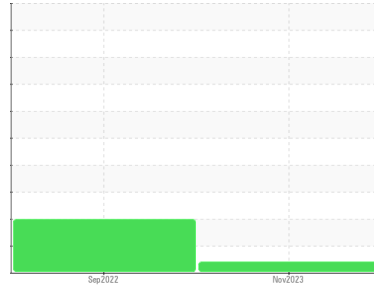




# OIL ANALYSIS REPORT

## Sample Rating Trend



## VIS DEBRIS



Area  
**VENEZIA**  
Machine Id  
**VENEZIA 2270**  
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		<b>WC0876021</b>	WC0751698	---
Sample Date	Client Info		<b>29 Nov 2023</b>	26 Sep 2022	---
Machine Age	mls	Client Info	<b>99516</b>	117	---
Oil Age	mls	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>239</b>	10	---
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>119</b>	116	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>14</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>143</b>	159	---
Calcium	ppm	ASTM D5185m		<b>5</b>	2	---
Phosphorus	ppm	ASTM D5185m		<b>1679</b>	1618	---
Zinc	ppm	ASTM D5185m		<b>0</b>	1	---
Sulfur	ppm	ASTM D5185m		<b>24708</b>	28158	---

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	<b>54</b>	8	---
Sodium	ppm	ASTM D5185m		<b>4</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water	%	ASTM D6304	>.2	<b>0.020</b>	0.041	---
ppm Water	ppm	ASTM D6304	>2000	<b>204</b>	414.4	---

### FLUID CLEANLINESS

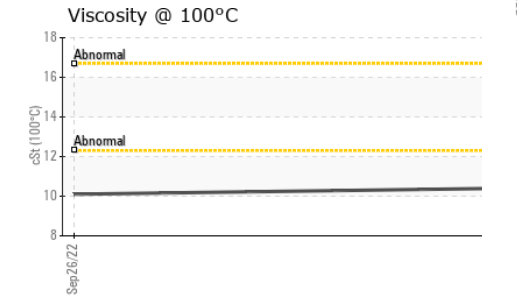
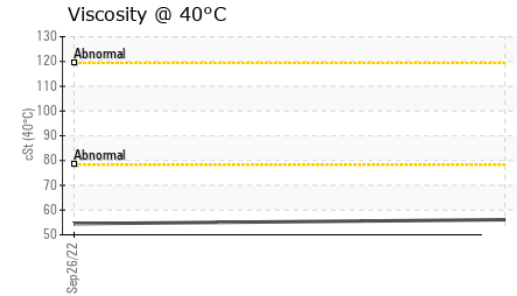
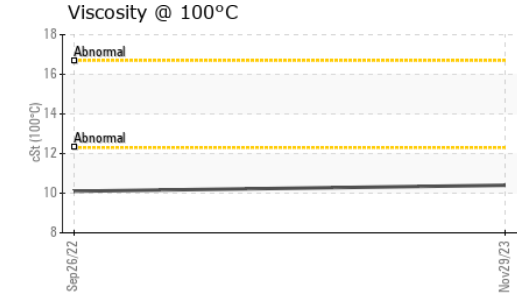
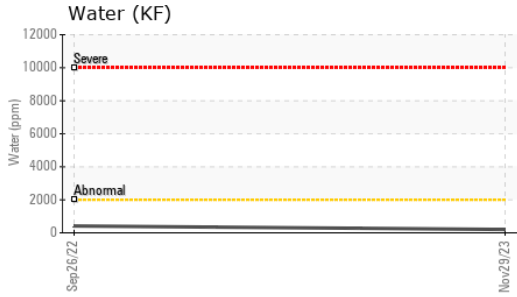
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 140670	---
Particles >6µm	ASTM D7647	>5000	---	▲ 34982	---
Particles >14µm	ASTM D7647	>640	---	▲ 1049	---
Particles >21µm	ASTM D7647	>160	---	▲ 186	---
Particles >38µm	ASTM D7647	>40	---	19	---
Particles >71µm	ASTM D7647	>10	---	2	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 24/22/17	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.80</b>	0.78	---



# OIL ANALYSIS REPORT



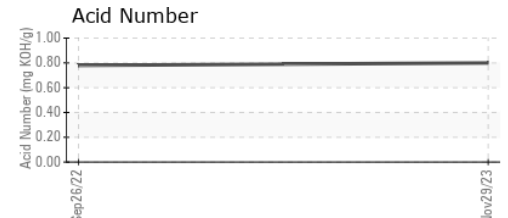
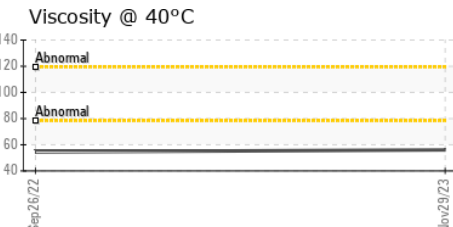
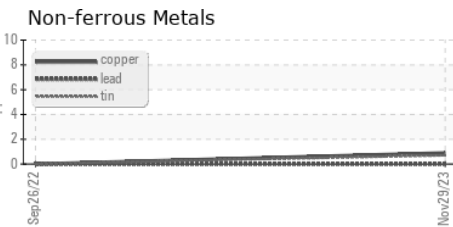
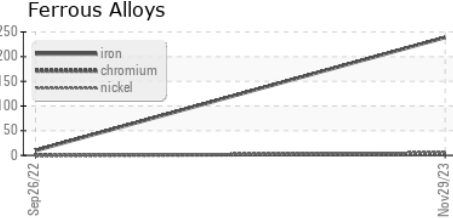
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	VLITE	---
Sand/Dirt	scalar	*Visual	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	56.1	54.5	---
Visc @ 100°C	cSt	ASTM D445	10.4	10.1	---
Viscosity Index (VI)	Scale	ASTM D2270	177	175	---

### SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					
Bottom					

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0876021 **Received** : 05 Dec 2023  
**Lab Number** : 06025716 **Diagnosed** : 07 Dec 2023  
**Unique Number** : 10770216 **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)