



# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area  
**1A1**  
 Machine Id  
**17-046S16-1**  
 Component  
**Gearbox**  
 Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0837628</b>	---	---
Sample Date	Client Info	<b>10 Dec 2023</b>	---	---
Machine Age	mls Client Info	<b>0</b>	---	---
Oil Age	mls Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>200	<b>0</b>	---	---
Chromium ppm ASTM D5185m	>15	<b>0</b>	---	---
Nickel ppm ASTM D5185m	>15	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>0</b>	---	---
Lead ppm ASTM D5185m	>100	<b>0</b>	---	---
Copper ppm ASTM D5185m	>200	<b>0</b>	---	---
Tin ppm ASTM D5185m	>25	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>364</b>	---	---
Barium ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>0</b>	---	---
Magnesium ppm ASTM D5185m		<b>0</b>	---	---
Calcium ppm ASTM D5185m		<b>28</b>	---	---
Phosphorus ppm ASTM D5185m		<b>1171</b>	---	---
Zinc ppm ASTM D5185m		<b>0</b>	---	---
Sulfur ppm ASTM D5185m		<b>257</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>1</b>	---	---
Sodium ppm ASTM D5185m		<b>0</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>2</b>	---	---
Water % ASTM D6304	>0.2	<b>0.069</b>	---	---
ppm Water ppm ASTM D6304	>2000	<b>692</b>	---	---

## FLUID CLEANLINESS

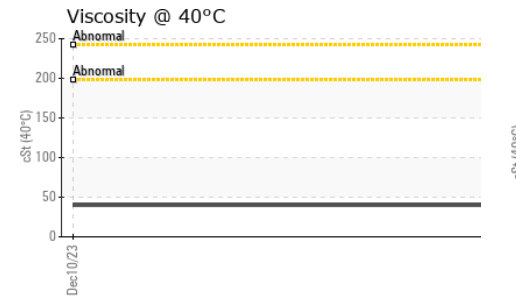
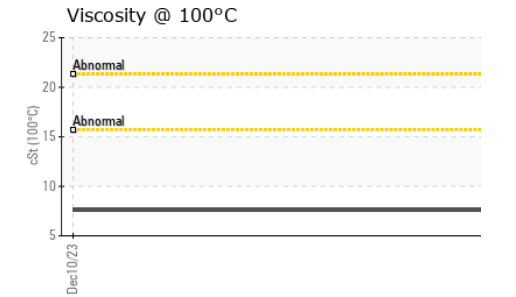
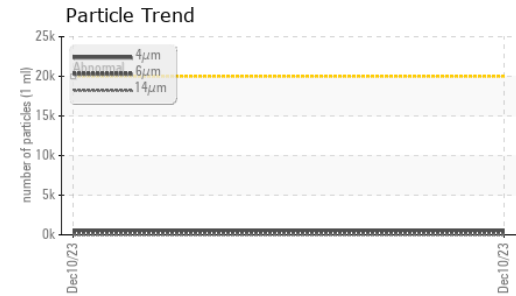
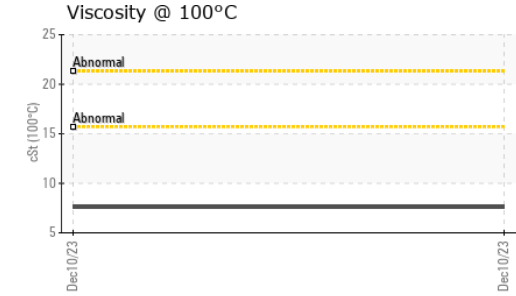
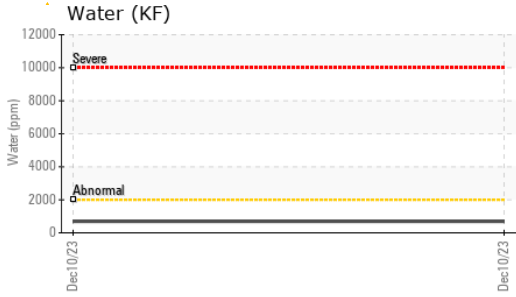
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	<b>577</b>	---	---
Particles >6µm ASTM D7647	>5000	<b>138</b>	---	---
Particles >14µm ASTM D7647	>640	<b>8</b>	---	---
Particles >21µm ASTM D7647	>160	<b>1</b>	---	---
Particles >38µm ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	<b>16/14/10</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>▲ 4.34</b>	---	---



# OIL ANALYSIS REPORT

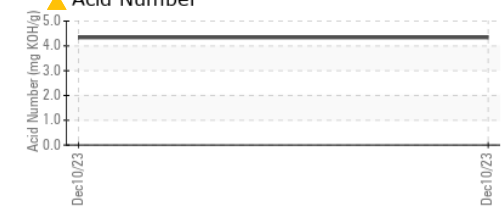
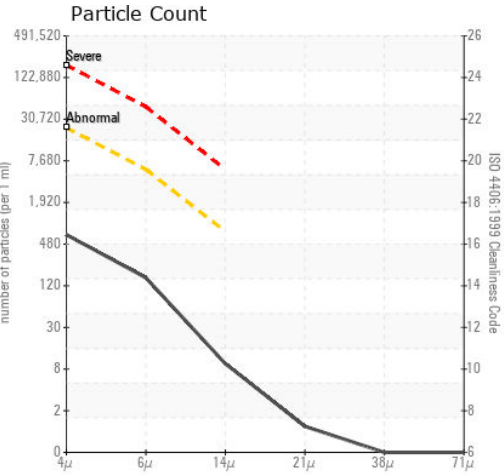
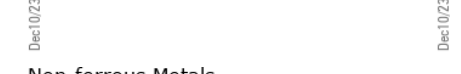
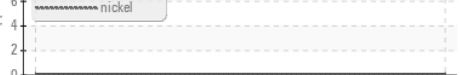


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	39.84	---	---
Visc @ 100°C	cSt	ASTM D445	7.59	---	---
Viscosity Index (VI)	Scale	ASTM D2270	161	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0837628 **Received** : 08 Dec 2023  
**Lab Number** : 06030028 **Diagnosed** : 19 Dec 2023  
**Unique Number** : 10779819 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PRTCOUNT, VI )

**BASF - GIANNA CREDAROLI**  
 500 WHITE PLAINS RD  
 TARRYTOWN, NY  
 US 10591  
 Contact: KEVIN MARSON  
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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)