



# OIL ANALYSIS REPORT

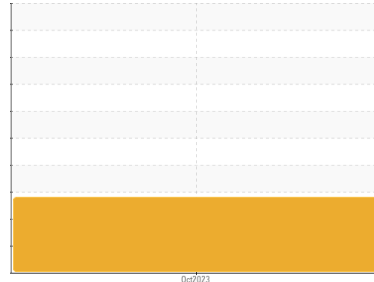
Sample Rating Trend

**WATER**



Area  
**TANNER LEANDER**  
Machine Id  
**17-046S14-4 PRE**

Component  
**Hydraulic System**  
Fluid  
**NOT GIVEN (--- QTS)**



## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a light concentration of water present 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>WC0837655</b>	---	---
Sample Date	Client Info	<b>12 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs 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 >20	<b>0</b>	---	---
Chromium ppm	ASTM D5185m >10	<b>0</b>	---	---
Nickel ppm	ASTM D5185m >10	<b>0</b>	---	---
Titanium ppm	ASTM D5185m	<b>0</b>	---	---
Silver ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m >10	<b>0</b>	---	---
Lead ppm	ASTM D5185m >10	<b>0</b>	---	---
Copper ppm	ASTM D5185m >75	<b>0</b>	---	---
Tin ppm	ASTM D5185m >10	<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>289</b>	---	---
Barium ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Manganese ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium ppm	ASTM D5185m	<b>0</b>	---	---
Calcium ppm	ASTM D5185m	<b>45</b>	---	---
Phosphorus ppm	ASTM D5185m	<b>1132</b>	---	---
Zinc ppm	ASTM D5185m	<b>0</b>	---	---
Sulfur ppm	ASTM D5185m	<b>6806</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	<b>0</b>	---	---
Sodium ppm	ASTM D5185m	<b>1</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Water %	ASTM D6304 >0.1	<b>▲ 0.106</b>	---	---
ppm Water	ASTM D6304 >1000	<b>▲ 1066.4</b>	---	---

## FLUID CLEANLINESS

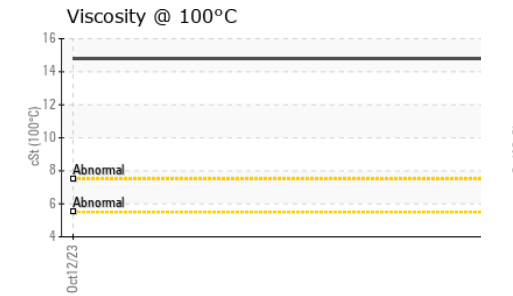
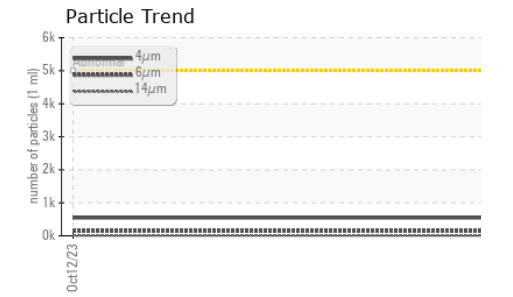
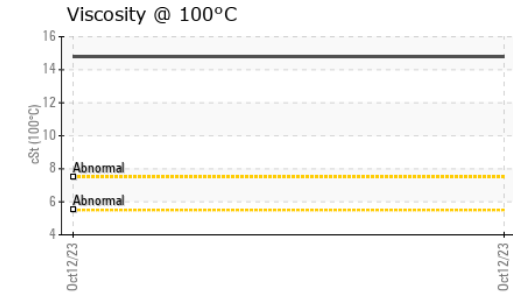
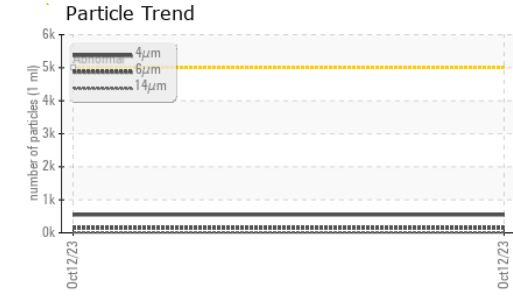
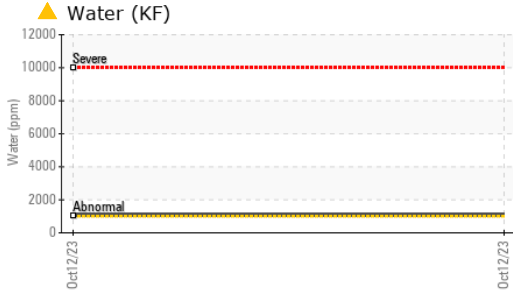
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>547</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>147</b>	---	---
Particles >14µm	ASTM D7647 >160	<b>11</b>	---	---
Particles >21µm	ASTM D7647 >40	<b>3</b>	---	---
Particles >38µm	ASTM D7647 >10	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>16/14/11</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	<b>▲ 4.30</b>	---	---



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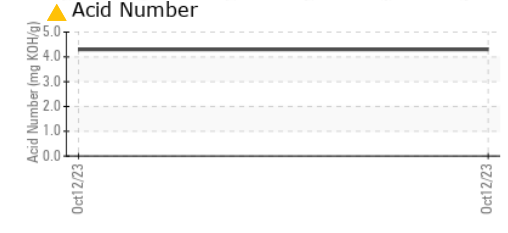
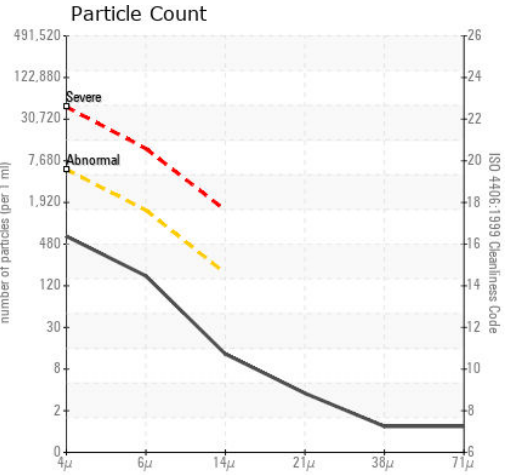
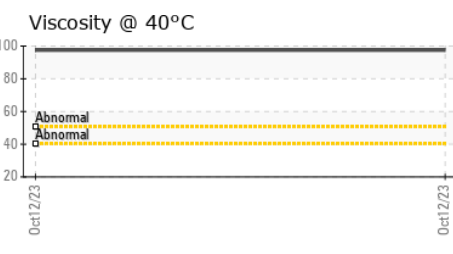
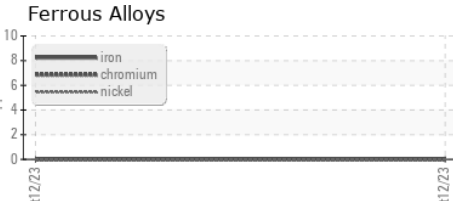


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97.5	---	---
Visc @ 100°C	cSt	ASTM D445	14.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270	158	---	---

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.** : WC0837655 **Received** : 13 Oct 2023  
**Lab Number** : 05978889 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 10696184 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, VI )

**BASF - TARRYTOWN**  
 500 WHITE PLAINS RD  
 TARRYTOWN, NY  
 US 10591  
 Contact: TANNER LEANDER  
 leander.tanner@basf.com  
 T:  
 F: (914)785-2166

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)