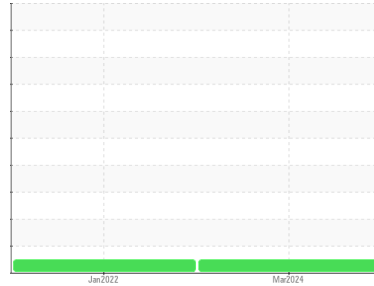




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**MB8768A**

Component  
**Hydraulic System**

Fluid  
**PHILLIPS 66 Powerflow NZ AW46 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0891816</b>	WC0653899	---
Sample Date	Client Info	<b>18 Mar 2024</b>	14 Jan 2022	---
Machine Age	hrs	<b>0</b>	0	---
Oil Age	hrs	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.05	<b>NEG</b>	NEG	---

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>6</b>	4	---
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >20	<b>6</b>	6	---
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
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>0</b>	1	---
Barium	ppm	ASTM D5185m	<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>7</b>	7	---
Calcium	ppm	ASTM D5185m	<b>27</b>	28	---
Phosphorus	ppm	ASTM D5185m	<b>237</b>	250	---
Zinc	ppm	ASTM D5185m	<b>265</b>	281	---
Sulfur	ppm	ASTM D5185m	<b>3753</b>	3974	---

## CONTAMINANTS

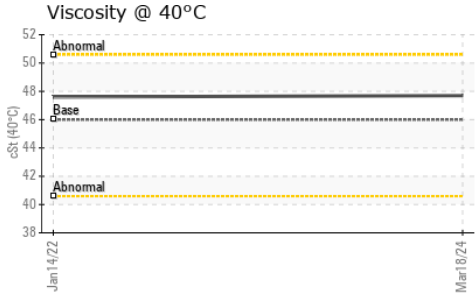
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>2</b>	1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	---

## VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.05	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---



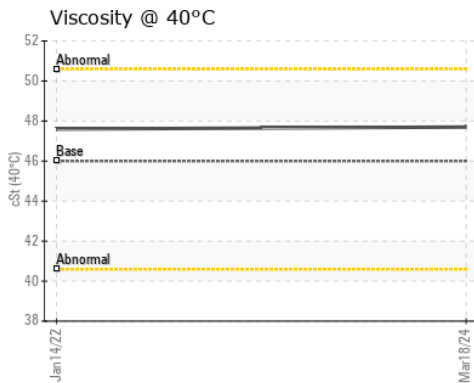
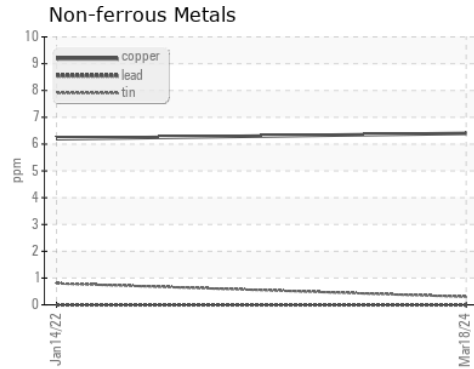
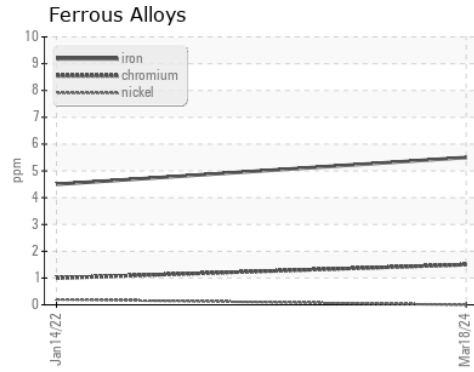
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	<b>47.7</b>	47.6	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0891816 **Received** : 19 Mar 2024  
**Lab Number** : **06122821** **Tested** : 20 Mar 2024  
**Unique Number** : 10936972 **Diagnosed** : 21 Mar 2024 - Don Baldrige  
**Test Package** : IND 1

**SUMIRIKO TENNESSEE INC**  
 150 HESTER LN  
 TAZEWELL, TN  
 US 37879  
 Contact: JEREMY COLLINS  
 jcollins@us.sumiriko.com  
 T: (423)626-8805  
 F: (423)626-2065

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)