



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**26146**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0924409</b>	WC0846597	---
Sample Date		Client Info		<b>10 Jun 2024</b>	13 Feb 2024	---
Machine Age	hrs	Client Info		<b>787</b>	274	---
Oil Age	hrs	Client Info		<b>1000</b>	500	---
Filter Age	hrs	Client Info		<b>1000</b>	500	---
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Not Changed	---
Sample Status				<b>ATTENTION</b>	ATTENTION	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>4</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>75	<b>3</b>	3	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

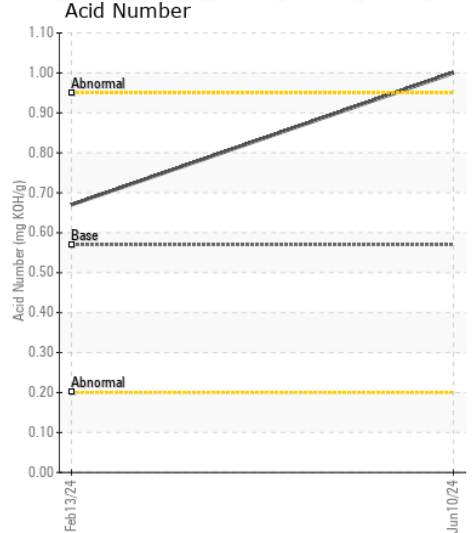
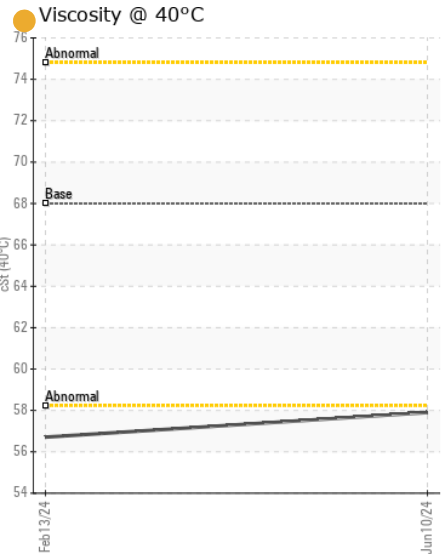
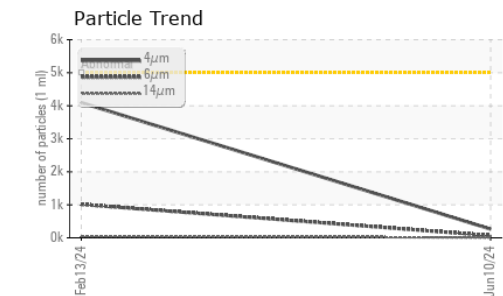
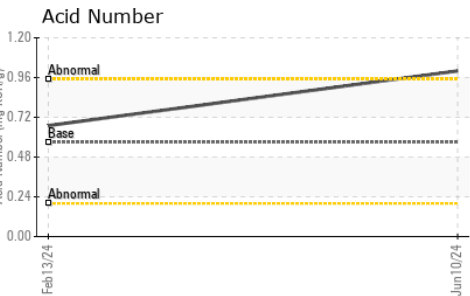
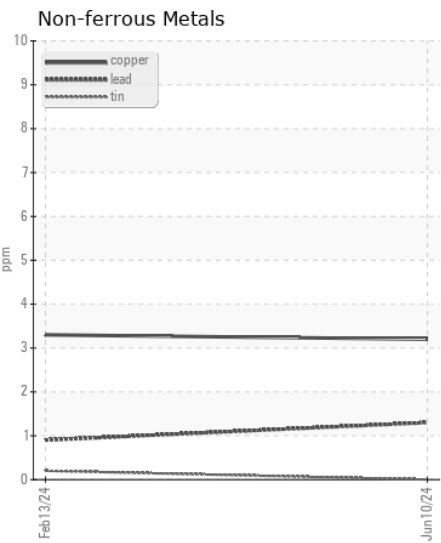
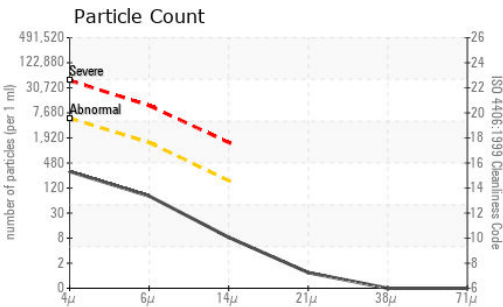
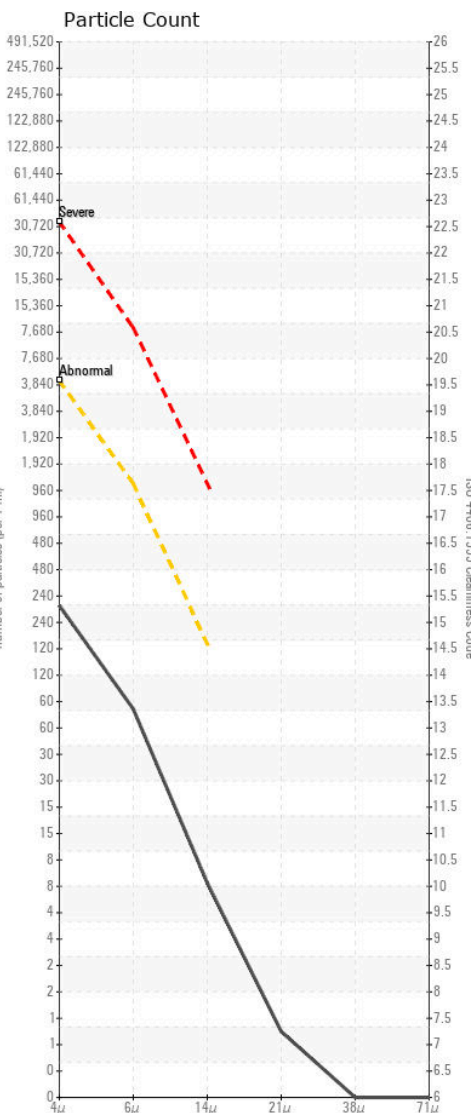
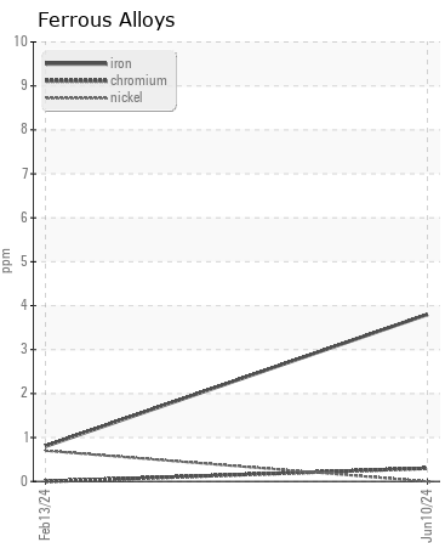
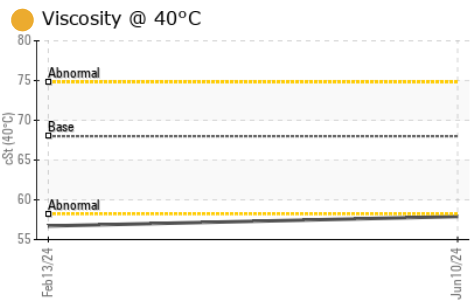
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>264</b>	4095	---
Particles >6µm		ASTM D7647	>1300	<b>68</b>	1010	---
Particles >14µm		ASTM D7647	>160	<b>7</b>	49	---
Particles >21µm		ASTM D7647	>40	<b>1</b>	10	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>15/13/10</b>	19/17/13	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
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	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Boron	ppm	ASTM D5185m	5	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	25	<b>2</b>	6	---
Calcium	ppm	ASTM D5185m	200	<b>77</b>	93	---
Phosphorus	ppm	ASTM D5185m	300	<b>566</b>	551	---
Zinc	ppm	ASTM D5185m	370	<b>983</b>	721	---
Sulfur	ppm	ASTM D5185m	2500	<b>2378</b>	1359	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>1.00</b>	0.67	---
Visc @ 40°C	cSt	ASTM D445	68	<b>57.9</b>	56.71	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924409  
**Lab Number** : 06214567  
**Unique Number** : 11087431  
**Test Package** : CONST  
**Received** : 19 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 21 Jun 2024 - Don Baldrige

**SULLIVAN EASTERN INC**  
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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)