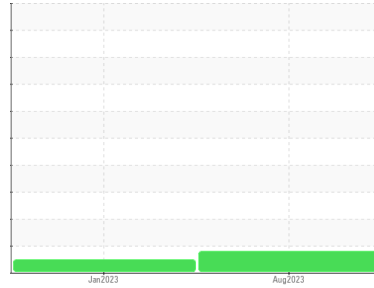




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**TK25269**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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>WC0772611</b>	WC0741563	---
Sample Date	Client Info		<b>14 Aug 2023</b>	25 Jan 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ATTENTION</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>5</b>	4	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >75	<b>2</b>	2	---
Tin	ppm	ASTM D5185m >10	<b>0</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 5	<b>0</b>	0	---
Barium	ppm	ASTM D5185m 5	<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m 5	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m 25	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m 200	<b>51</b>	52	---
Phosphorus	ppm	ASTM D5185m 300	<b>356</b>	348	---
Zinc	ppm	ASTM D5185m 370	<b>438</b>	452	---
Sulfur	ppm	ASTM D5185m 2500	<b>5842</b>	5283	---

## CONTAMINANTS

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

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 5080</b>	2908	---
Particles >6µm	ASTM D7647	>1300	<b>604</b>	370	---
Particles >14µm	ASTM D7647	>160	<b>31</b>	22	---
Particles >21µm	ASTM D7647	>40	<b>11</b>	10	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 20/16/12</b>	19/16/12	---

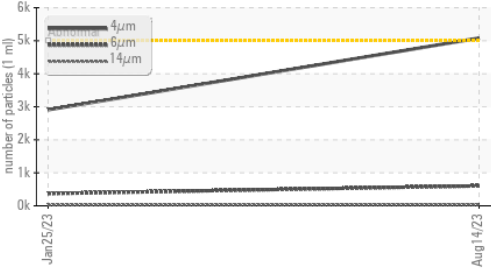
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	<b>0.29</b>	0.27	---



# OIL ANALYSIS REPORT

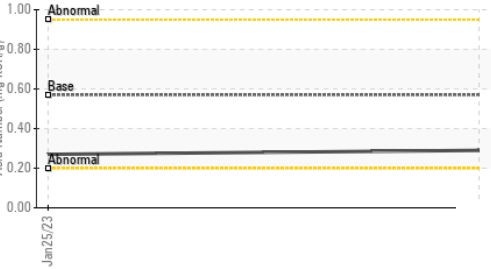
### ▲ Particle Trend



### ● Viscosity @ 100°C



### ● Acid Number



### ● Viscosity @ 100°C



### ● Viscosity @ 40°C



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	VLITE
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	---

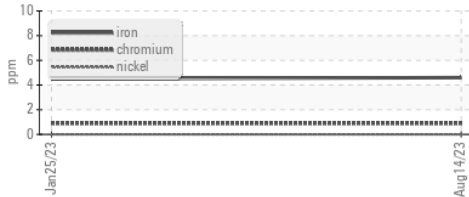
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	35.8	35.7
Visc @ 100°C	cSt	ASTM D445	5.4	6.7	6.6
Viscosity Index (VI)	Scale	ASTM D2270	102	146	141

### SAMPLE IMAGES

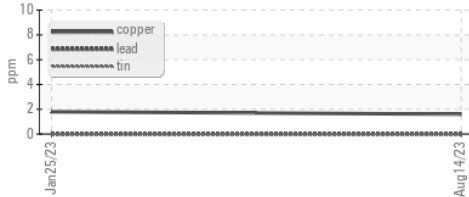
method	limit/base	current	history1	history2
Color				no image
Bottom				no image

### GRAPHS

#### Ferrous Alloys



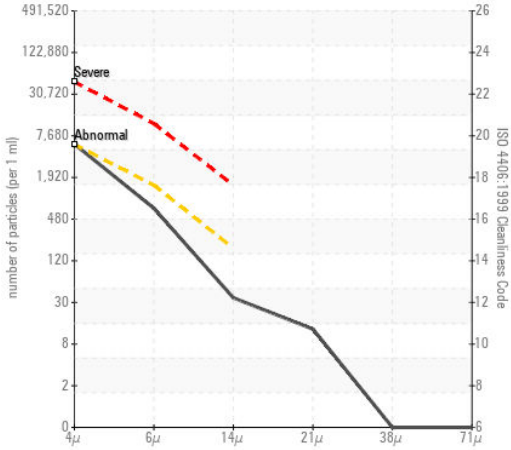
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### ▲ Particle Count



#### ● Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0772611 **Received** : 14 Aug 2023  
**Lab Number** : 05924210 **Diagnosed** : 15 Aug 2023  
**Unique Number** : 10604157 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

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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)