



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**KANSAS/44/EG - EXCAVATOR**

Machine Id

**20.146L [KANSAS^44^EG - EXCAVATOR]**

Component

**Left Final Drive**

Fluid

**TDTO FLUID SAE 30 (--- GAL)**

## 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>WC0789832</b>	---	---
Sample Date	Client Info	<b>16 Apr 2024</b>	---	---
Machine Age	hrs Client Info	<b>8</b>	---	---
Oil Age	hrs Client Info	<b>8</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	<b>8</b>	---	---
Chromium	ppm ASTM D5185m >10	<b>&lt;1</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 >25	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m >25	<b>0</b>	---	---
Copper	ppm ASTM D5185m >50	<b>0</b>	---	---
Tin	ppm ASTM D5185m >10	<b>&lt;1</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 37	<b>2</b>	---	---
Barium	ppm ASTM D5185m 7	<b>18</b>	---	---
Molybdenum	ppm ASTM D5185m 5	<b>0</b>	---	---
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m 40	<b>17</b>	---	---
Calcium	ppm ASTM D5185m 2650	<b>3375</b>	---	---
Phosphorus	ppm ASTM D5185m 1050	<b>895</b>	---	---
Zinc	ppm ASTM D5185m 1075	<b>1054</b>	---	---
Sulfur	ppm ASTM D5185m 5750	<b>11171</b>	---	---

## CONTAMINANTS

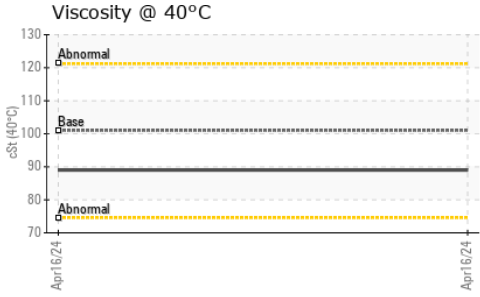
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	<b>17</b>	---	---
Sodium	ppm ASTM D5185m	<b>7</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>3</b>	---	---

## VISUAL

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



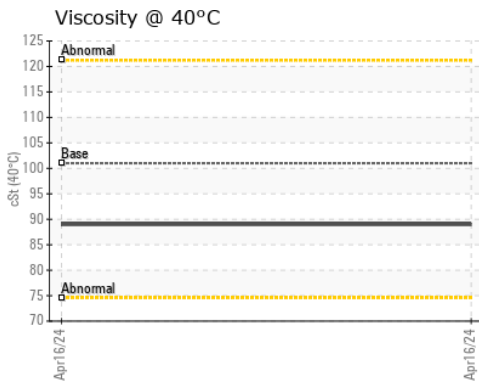
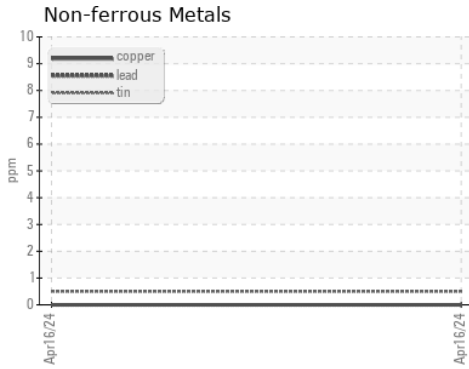
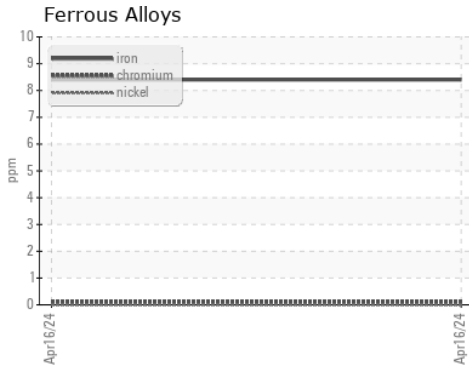
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 101	<b>89.0</b>	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0789832      **Received** : 22 Apr 2024  
**Lab Number** : **06156337**      **Tested** : 23 Apr 2024  
**Unique Number** : 10991760      **Diagnosed** : 24 Apr 2024 - Sean Felton  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS 67213  
 Contact: RANDY ROBERTS  
 randy.roberts@sherwood.net  
 T: (316)943-6491  
 F: x:

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)