

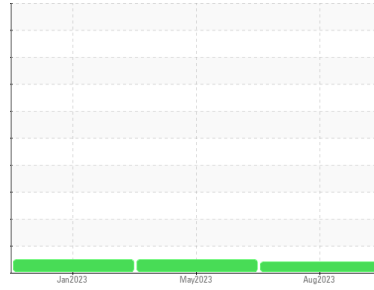


# PROBLEM SUMMARY

Sample Rating Trend

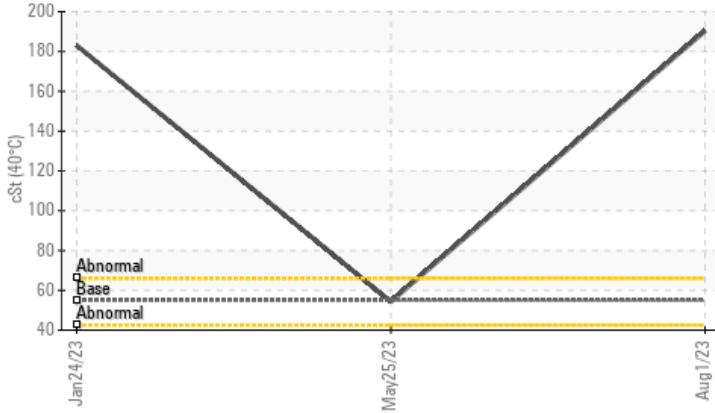
VISCOSITY

Area  
**OKLAHOMA/105/COOL - Loader**  
 Machine Id  
**46.102L [OKLAHOMA^105^COOL - Loader]**  
 Component  
**Rear Differential**  
 Fluid  
**MOBIL MOBILFLUID 424 (11 GAL)**



## COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



## RECOMMENDATION

Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	NORMAL
Visc @ 40°C	cSt	ASTM D445	55	▲ 190.3	54.3	183

Customer Id: SHEWIC  
 Sample No.: WC0834154  
 Lab Number: 05923721  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 25 May 2023 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 24 Jan 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



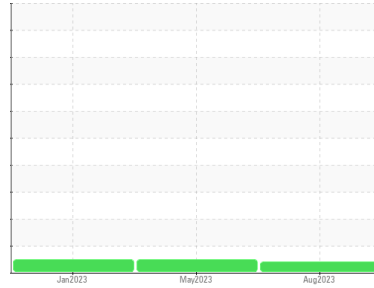


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**OKLAHOMA/105/COOL - Loader**  
 Machine Id  
**46.102L [OKLAHOMA^105^COOL - Loader]**  
 Component  
**Rear Differential**  
 Fluid  
**MOBIL MOBILFLUID 424 (11 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 oil viscosity is higher than normal. Confirm oil type.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0834154</b>	WC0808104	WC0778395
Sample Date	Client Info		<b>01 Aug 2023</b>	25 May 2023	24 Jan 2023
Machine Age	hrs	Client Info	<b>13548</b>	13113	12564
Oil Age	hrs	Client Info	<b>13113</b>	12983	12561
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ATTENTION</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>193</b>	303	34
Chromium	ppm	ASTM D5185m >10	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>6</b>	<1	0
Lead	ppm	ASTM D5185m >25	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >100	<b>6</b>	0	0
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>25</b>	116	10
Barium	ppm	ASTM D5185m	<b>11</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>5</b>	1	2
Manganese	ppm	ASTM D5185m	<b>2</b>	2	<1
Magnesium	ppm	ASTM D5185m	<b>35</b>	26	23
Calcium	ppm	ASTM D5185m	<b>4035</b>	3493	2552
Phosphorus	ppm	ASTM D5185m	<b>1464</b>	1157	874
Zinc	ppm	ASTM D5185m	<b>1823</b>	1481	1066
Sulfur	ppm	ASTM D5185m	<b>14800</b>	5624	6774

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>23</b>	17	5
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	<1

## VISUAL

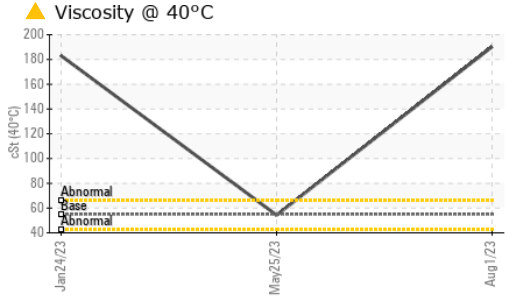
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

## FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	<b>▲ 190.3</b>	54.3	183

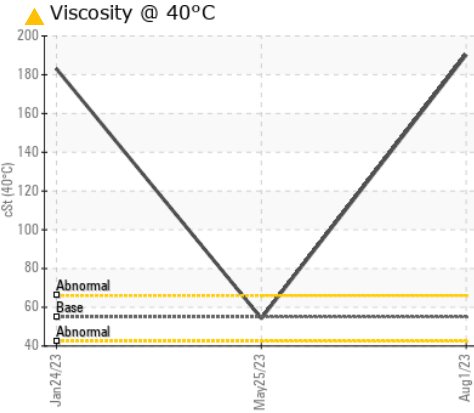
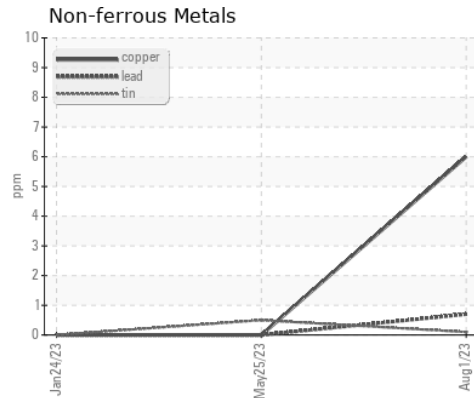
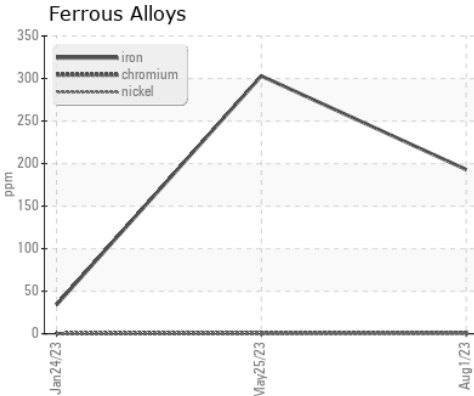


# OIL ANALYSIS REPORT



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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0834154      **Received** : 14 Aug 2023  
**Lab Number** : **05923721**      **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10603668      **Diagnostician** : Doug Bogart  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
 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)