

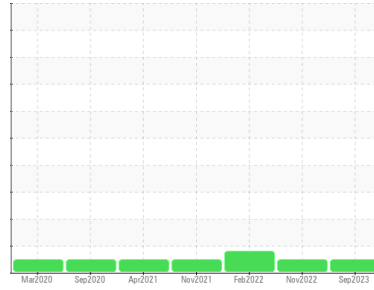


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/102/EG - LOADER**  
 Machine Id  
**45.43L [OKLAHOMA^102^EG - LOADER]**  
 Component  
**Rear Differential**  
 Fluid  
**MOBIL MOBILFLUID 424 (--- GAL)**

Sample Rating Trend



**NORMAL**

## 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>WC0834081</b>	WC0702073	WC0662449
Sample Date	Client Info	<b>06 Sep 2023</b>	02 Nov 2022	15 Feb 2022
Machine Age	hrs	<b>5420</b>	4650	4650
Oil Age	hrs	<b>770</b>	1000	700
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >500	<b>56</b>	71	▲ 320
Chromium	ppm	ASTM D5185m >3	<b>&lt;1</b>	1	4
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	5	0
Aluminum	ppm	ASTM D5185m >30	<b>2</b>	2	2
Lead	ppm	ASTM D5185m >13	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >103	<b>&lt;1</b>	1	6
Tin	ppm	ASTM D5185m >5	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	<1

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>113</b>	113	64
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>6</b>	9	22
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	5
Magnesium	ppm	ASTM D5185m	<b>16</b>	21	20
Calcium	ppm	ASTM D5185m	<b>3546</b>	3563	3450
Phosphorus	ppm	ASTM D5185m	<b>1135</b>	1069	1135
Zinc	ppm	ASTM D5185m	<b>1394</b>	1396	1428
Sulfur	ppm	ASTM D5185m	<b>4944</b>	5023	5008

## CONTAMINANTS

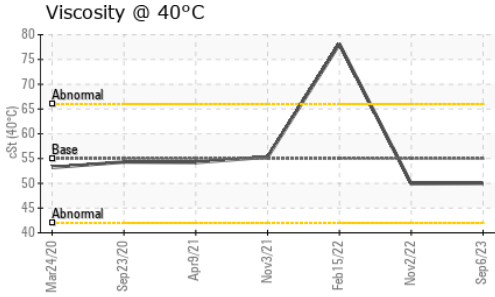
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >100	<b>14</b>	12	10
Sodium	ppm	ASTM D5185m	<b>0</b>	8	7
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	<1

## VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	MODER	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>	NONE	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



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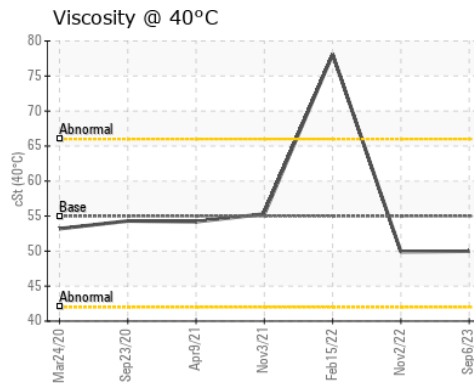
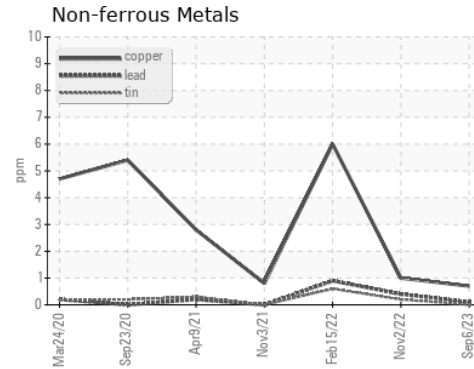
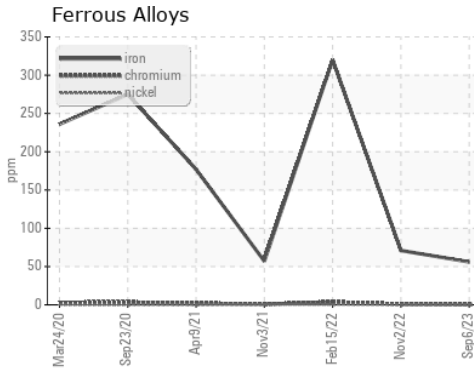


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	<b>49.98</b>	49.9	78.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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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.** : WC0834081      **Received** : 22 Sep 2023  
**Lab Number** : **05958832**      **Diagnosed** : 27 Sep 2023  
**Unique Number** : 10660045      **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)