

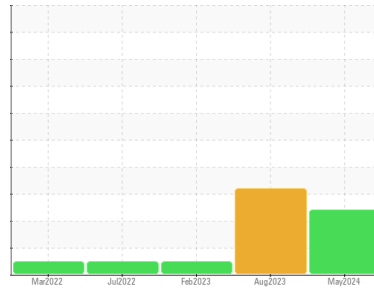


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/1052**  
 Machine Id  
**45.58L [OKLAHOMA^1052]**  
 Component  
**Rear Differential**  
 Fluid  
**MOBIL MOBILFLUID 424 (6 GAL)**

Sample Rating Trend



**WATER**



## 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

Appearance is hazy. There is a light concentration of water present 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>WC0935129</b>	WC0848911	WC0769736
Sample Date	Client Info		<b>28 May 2024</b>	28 Aug 2023	14 Feb 2023
Machine Age	hrs	Client Info	<b>8282</b>	6348	4983
Oil Age	hrs	Client Info	<b>4983</b>	500	1000
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>149</b>	224	186
Chromium	ppm	ASTM D5185m >3	<b>1</b>	3	2
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	2	<1
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>0</b>	1	0
Lead	ppm	ASTM D5185m >13	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >103	<b>3</b>	3	1
Tin	ppm	ASTM D5185m >5	<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>0</b>	1	2
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>2</b>	3	2
Magnesium	ppm	ASTM D5185m	<b>0</b>	2	1
Calcium	ppm	ASTM D5185m	<b>31</b>	109	151
Phosphorus	ppm	ASTM D5185m	<b>389</b>	470	470
Zinc	ppm	ASTM D5185m	<b>10</b>	38	65
Sulfur	ppm	ASTM D5185m	<b>218</b>	373	238

## CONTAMINANTS

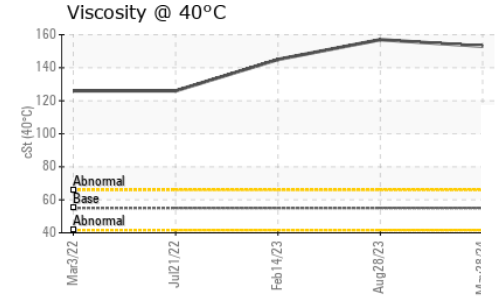
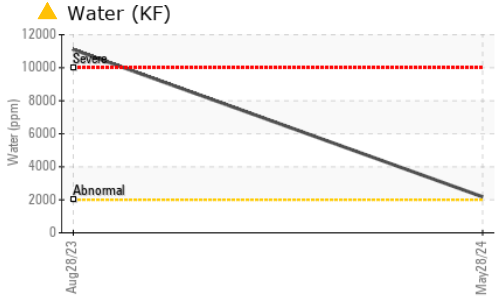
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	<b>22</b>	26	25
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	4	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304 >.2	<b>▲ 0.218</b>	▲ 1.11	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 2180</b>	▲ 11100	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>MODER</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>● HAZY</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >.2	<b>0.2%</b>	▲ 0.2%	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



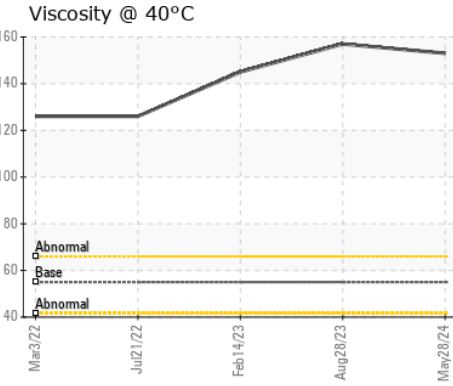
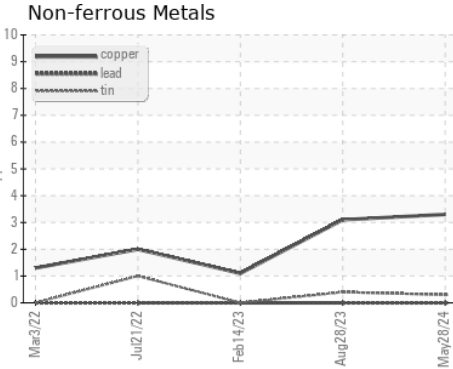
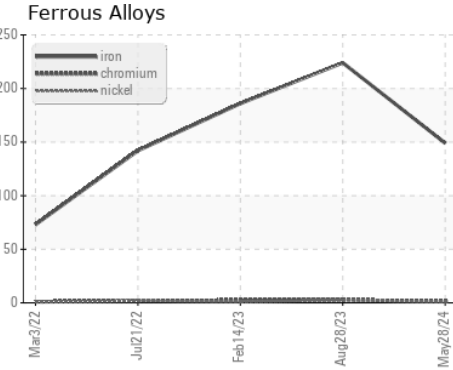
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	153	157	145

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0935129      **Received** : 05 Jun 2024  
**Lab Number** : 06200660      **Tested** : 06 Jun 2024  
**Unique Number** : 11062783      **Diagnosed** : 07 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: KF )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: SHAWN SOUTH  
 shawn.south@sherwood.net

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)

T:  
F: