

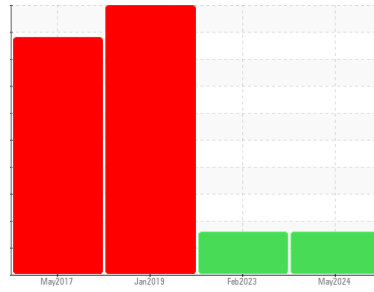


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/102/EG - BACKHOE LOADER**  
 Machine Id  
**53.513L [OKLAHOMA^102^EG - BACKHOE LOADER]**  
 Component  
**Front Left Final Drive**  
 Fluid  
**MOBIL MOBILTRANS AST 30 (--- GAL)**

Sample Rating Trend



**WATER**



## DIAGNOSIS

### ▲ Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 5634 hours )

### Wear

All component wear rates are normal.

### ▲ Contamination

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>WC0864418</b>	WC0603261	WCCF1209
Sample Date	Client Info		<b>03 May 2024</b>	17 Feb 2023	11 Jan 2019
Machine Age	hrs	Client Info	<b>5634</b>	5700	2224
Oil Age	hrs	Client Info	<b>5634</b>	5700	1341
Oil Changed	Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status			<b>MARGINAL</b>	ABNORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>79</b>	151	204
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	2	3
Nickel	ppm	ASTM D5185m >5	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >75	<b>3</b>	2	2
Lead	ppm	ASTM D5185m >10	<b>5</b>	15	▲ 135
Copper	ppm	ASTM D5185m >75	<b>56</b>	▲ 190	▲ 1746
Tin	ppm	ASTM D5185m >8	<b>7</b>	▲ 21	▲ 182
Antimony	ppm	ASTM D5185m >50	<b>---</b>	---	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>20</b>	34	22
Barium	ppm	ASTM D5185m	<b>0</b>	2	6
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	2	5
Manganese	ppm	ASTM D5185m	<b>2</b>	2	3
Magnesium	ppm	ASTM D5185m	<b>16</b>	17	15
Calcium	ppm	ASTM D5185m	<b>3183</b>	2905	2807
Phosphorus	ppm	ASTM D5185m	<b>998</b>	939	882
Zinc	ppm	ASTM D5185m	<b>1234</b>	1194	1014
Sulfur	ppm	ASTM D5185m	<b>5385</b>	5634	5877

## CONTAMINANTS

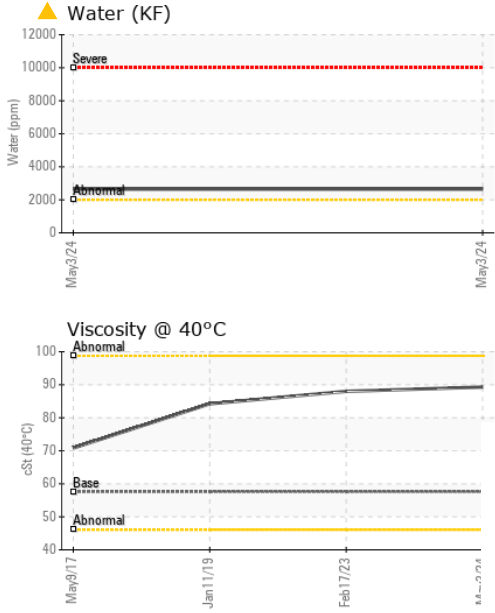
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>18</b>	13	14
Sodium	ppm	ASTM D5185m	<b>4</b>	3	6
Potassium	ppm	ASTM D5185m >20	<b>0</b>	2	6
Water	%	ASTM D6304 >0.2	▲ <b>0.265</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ <b>2650</b>	---	---

## 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	▲ VHEVY
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 >0.2	▲ <b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



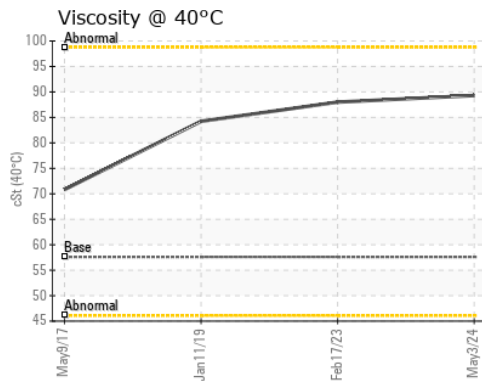
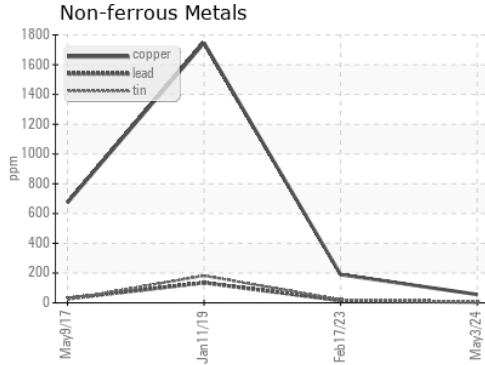
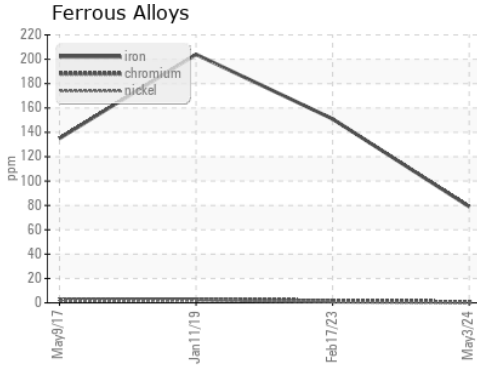
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.6	<b>89.3</b>	88.0	84.23

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.** : WC0864418      **Received** : 13 May 2024  
**Lab Number** : **06177533**      **Tested** : 15 May 2024  
**Unique Number** : 11023586      **Diagnosed** : 15 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF )

**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)