

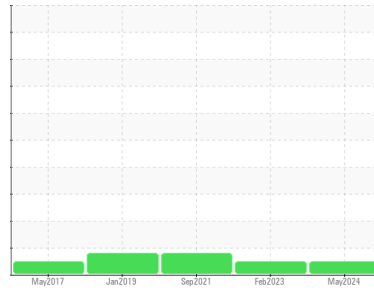


# OIL ANALYSIS REPORT



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

### Sample Rating Trend



**NORMAL**



### 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 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>WC0864411</b>	WC0603262	WC0622951
Sample Date	Client Info		<b>03 May 2024</b>	17 Feb 2023	21 Sep 2021
Machine Age	hrs	Client Info	<b>5634</b>	5700	3420
Oil Age	hrs	Client Info	<b>5634</b>	2280	500
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

### CONTAMINATION

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

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>800	<b>185</b>	364	▲ 740
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	5	11
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	3
Titanium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185m	>75	<b>1</b>	2	3
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>75	<b>4</b>	3	6
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	0
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>17</b>	33	28
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	2	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	3	6
Magnesium	ppm	ASTM D5185m		<b>16</b>	17	24
Calcium	ppm	ASTM D5185m		<b>3287</b>	2914	3270
Phosphorus	ppm	ASTM D5185m		<b>1027</b>	939	788
Zinc	ppm	ASTM D5185m		<b>1249</b>	1206	1255
Sulfur	ppm	ASTM D5185m		<b>5085</b>	5847	3420

### CONTAMINANTS

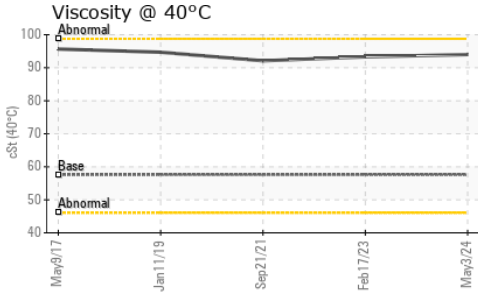
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>400	<b>12</b>	9	15
Sodium	ppm	ASTM D5185m		<b>4</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0

### VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>LIGHT</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>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



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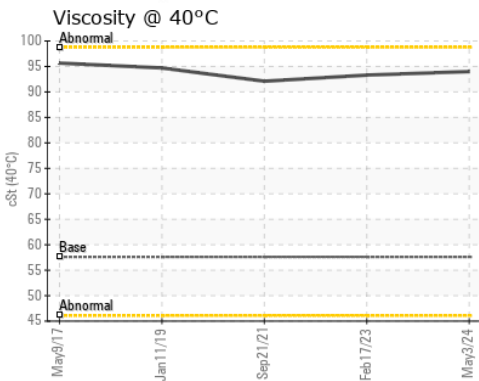
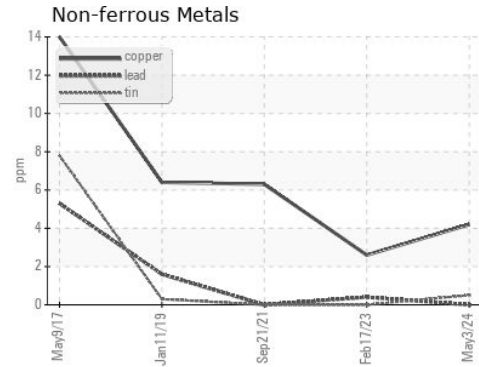
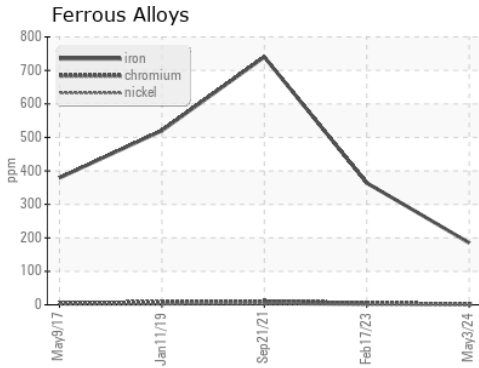
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	57.6	<b>94.0</b>	93.3 92.1

### 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.** : WC0864411  
**Lab Number** : 06177534  
**Unique Number** : 11023587  
**Test Package** : CONST

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 15 May 2024 - Don Baldrige

**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)