

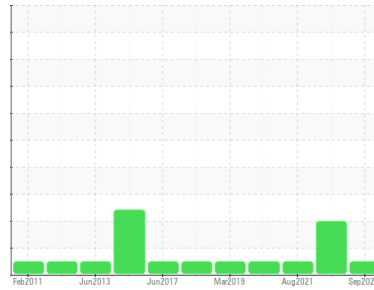


# OIL ANALYSIS REPORT



Area  
**OKLAHOMA/109/EG - ROLLER/COMPACTOR**  
 Machine Id  
**65.08L [OKLAHOMA^109^EG - ROLLER/COMPACTOR]**  
 Component  
**Hydraulic System**  
 Fluid  
**MOBIL 15W40 (--- GAL)**

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: 847 hrs )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0819833</b>	WC0769647	WC0606246
Sample Date	Client Info		<b>25 Sep 2023</b>	03 Feb 2023	04 Aug 2021
Machine Age	hrs	Client Info	<b>847</b>	608	292
Oil Age	hrs	Client Info	<b>300</b>	608	500
Oil Changed	Client Info		<b>N/A</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>4</b>	5	4
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >10	<b>4</b>	<1	0
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m >75	<b>17</b>	18	15
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>68</b>	79	92
Barium	ppm	ASTM D5185m	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	<b>30</b>	36	39
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>350</b>	445	493
Calcium	ppm	ASTM D5185m	<b>1934</b>	1766	1922
Phosphorus	ppm	ASTM D5185m	<b>813</b>	779	865
Zinc	ppm	ASTM D5185m	<b>969</b>	935	947
Sulfur	ppm	ASTM D5185m	<b>3638</b>	3004	2722

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>4</b>	5	5
Sodium	ppm	ASTM D5185m >118	<b>1</b>	<1	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	<1

## FLUID CLEANLINESS

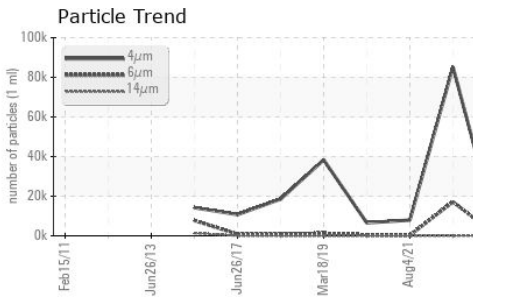
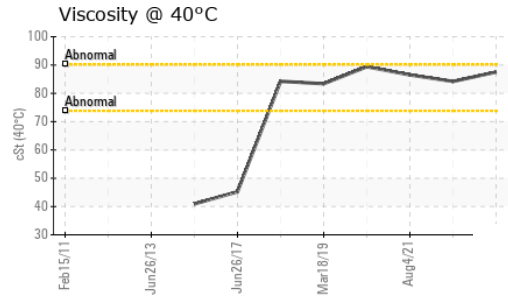
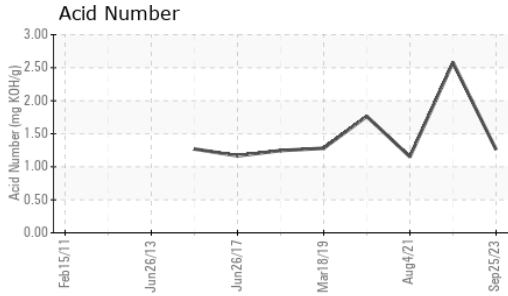
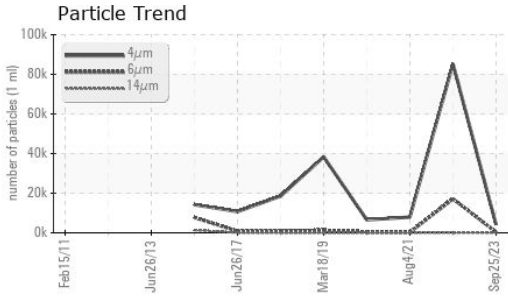
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>4167</b>	85251	7956
Particles >6µm	ASTM D7647	>2500	<b>303</b>	▲ 17165	291
Particles >14µm	ASTM D7647	>640	<b>23</b>	75	15
Particles >21µm	ASTM D7647	>160	<b>5</b>	4	2
Particles >38µm	ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/18/16	<b>19/15/12</b>	▲ 24/21/13	20/15/11

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.26</b>	▲ 2.58	1.152



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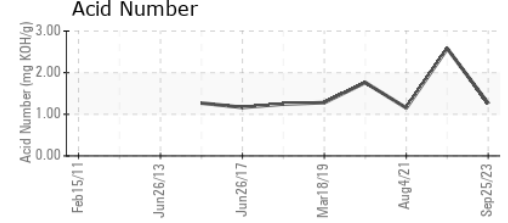
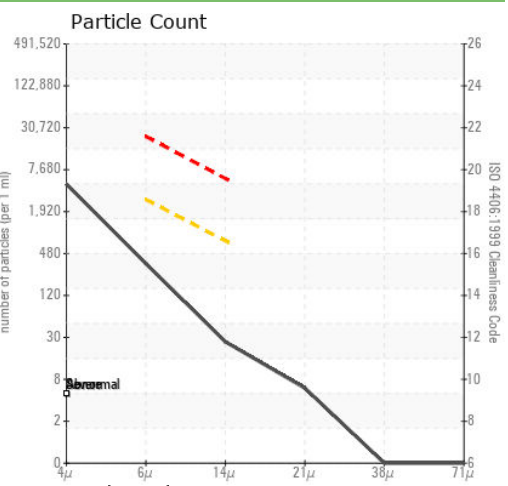
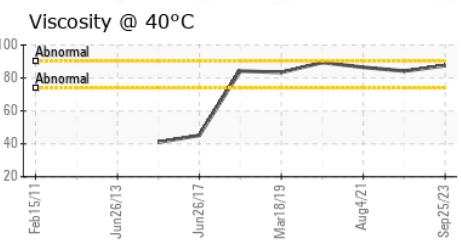
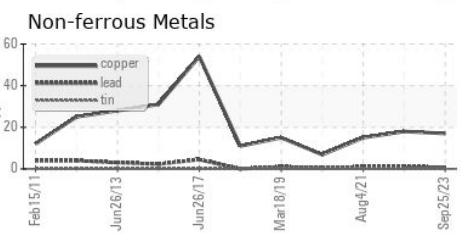
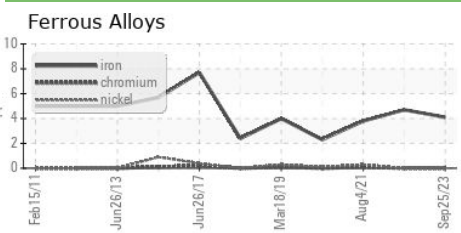


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	87.5	84.2	86.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0819833 **Received** : 02 Oct 2023  
**Lab Number** : 05966995 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10673546 **Diagnostician** : Jonathan Hester  
**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:

Certificate L2367  
 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)