



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**OKLAHOMA/102/DR - LOADER**  
 Machine Id  
**46.33L [OKLAHOMA^102^DR - LOADER]**  
 Component  
**Rear Differential**  
 Fluid  
**DEXRON III (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0908841</b>	WCMCF29266	WCMCF03838
Sample Date		Client Info		<b>11 Jun 2024</b>	28 Oct 2016	02 Aug 2014
Machine Age	hrs	Client Info		<b>8895</b>	600	1010
Oil Age	hrs	Client Info		<b>0</b>	500	500
Filter Age	hrs	Client Info		<b>0</b>	500	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>128</b>	19	41
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	1	3
Lead	ppm	ASTM D5185m	>25	<b>1</b>	2	2
Copper	ppm	ASTM D5185m	>100	<b>11</b>	6	2
Tin	ppm	ASTM D5185m	>10	<b>1</b>	4	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

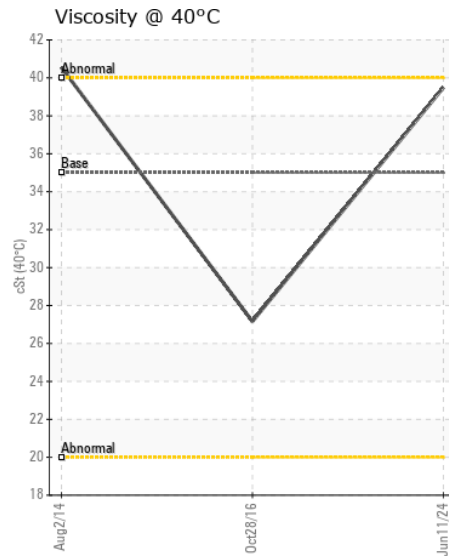
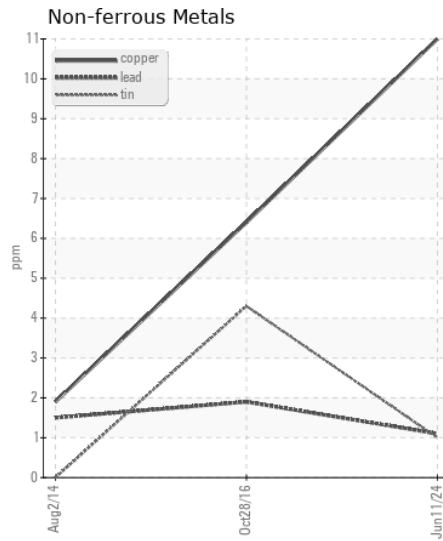
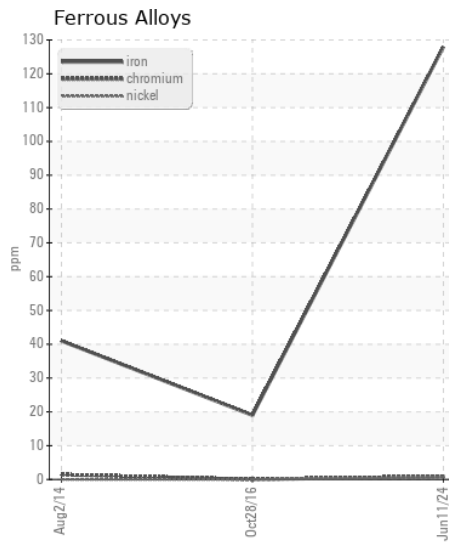
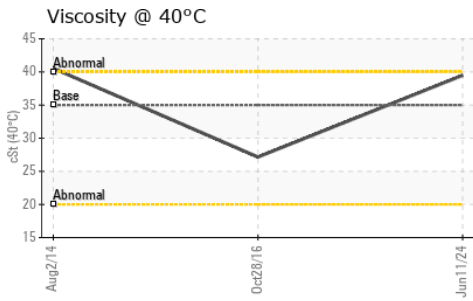
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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

## FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	5	2
Boron	ppm	ASTM D5185m		<b>0</b>	95	6
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>5</b>	1	1
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>17</b>	15	16
Calcium	ppm	ASTM D5185m		<b>3221</b>	150	2986
Phosphorus	ppm	ASTM D5185m		<b>1152</b>	252	983
Zinc	ppm	ASTM D5185m		<b>1284</b>	46	1284
Sulfur	ppm	ASTM D5185m		<b>8477</b>	2604	3445
Visc @ 40°C	cSt	ASTM D445	35.0	<b>39.49</b>	27.16	40.55



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908841  
**Lab Number** : 06230633  
**Unique Number** : 11114126  
**Test Package** : CONST

**Received** : 08 Jul 2024  
**Tested** : 11 Jul 2024  
**Diagnosed** : 11 Jul 2024 - Jonathan Hester

**SHERWOOD CONSTRUCTION CO INC**  
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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)