



# OIL ANALYSIS REPORT

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



Area  
**OKLAHOMA/102/EG - EXCAVATOR**  
Machine Id  
**20.514L [OKLAHOMA^102^EG - EXCAVATOR]**  
Component  
**Left Final Drive**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0908849</b>	WC0778385	WC0741069
Sample Date		Client Info		<b>10 Apr 2024</b>	16 Jan 2023	18 Nov 2022
Machine Age	hrs	Client Info		<b>1850</b>	7005	6860
Oil Age	hrs	Client Info		<b>1000</b>	4724	4585
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>800	<b>▲ 1345</b>	▲ 1246	▲ 965
Chromium	ppm	ASTM D5185m	>10	<b>7</b>	7	5
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	1
Titanium	ppm	ASTM D5185m	>15	<b>7</b>	5	4
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>75	<b>● 105</b>	● 64	● 57
Lead	ppm	ASTM D5185m	>10	<b>0</b>	2	1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

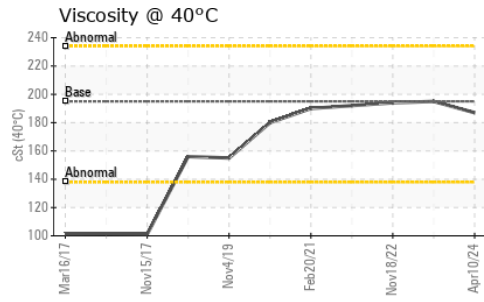
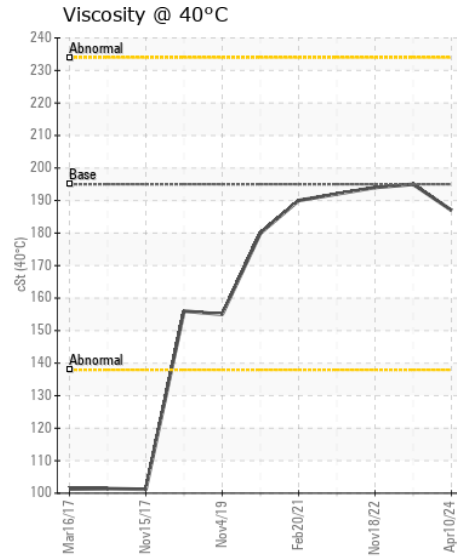
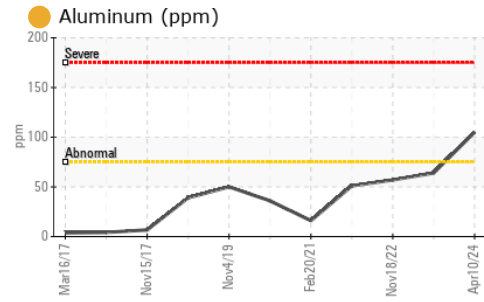
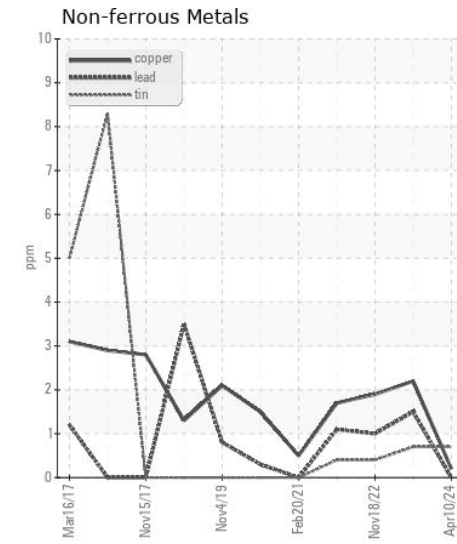
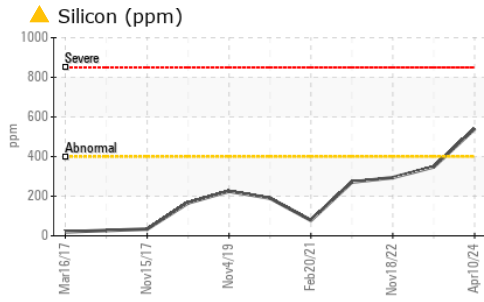
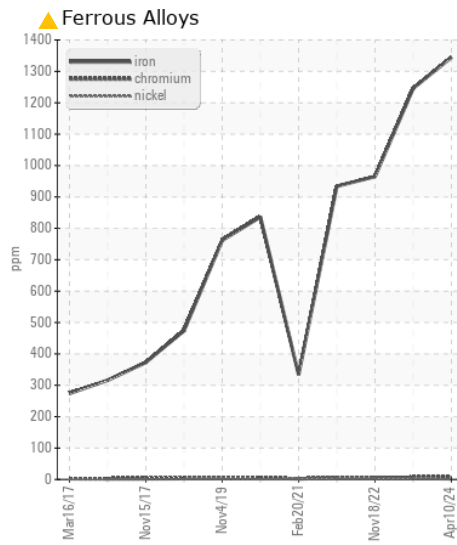
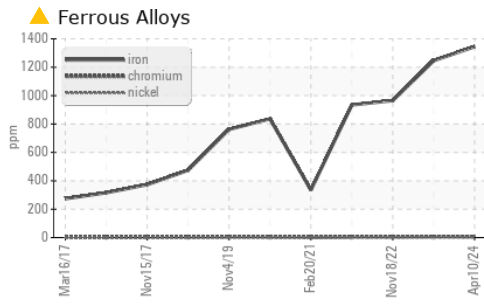
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>400	<b>▲ 540</b>	▲ 348	▲ 294
Potassium	ppm	ASTM D5185m	>20	<b>33</b>	18	16
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>11</b>	9	8
Boron	ppm	ASTM D5185m		<b>4</b>	3	7
Barium	ppm	ASTM D5185m		<b>2</b>	11	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	3	3
Manganese	ppm	ASTM D5185m		<b>13</b>	11	9
Magnesium	ppm	ASTM D5185m		<b>36</b>	31	29
Calcium	ppm	ASTM D5185m		<b>3141</b>	2593	3035
Phosphorus	ppm	ASTM D5185m		<b>1049</b>	875	1012
Zinc	ppm	ASTM D5185m		<b>1240</b>	1098	1232
Sulfur	ppm	ASTM D5185m		<b>14327</b>	13465	15875
Visc @ 40°C	cSt	ASTM D445	195	<b>187</b>	195	194



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0908849  
**Lab Number** : 06156326  
**Unique Number** : 10991749  
**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:

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)