



# OIL ANALYSIS REPORT

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



Area  
**OKLAHOMA/102/EG - EXCAVATOR**  
Machine Id  
**20.209L [OKLAHOMA^102^EG - EXCAVATOR]**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL MOBILTRANS AST 30 (23 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: 478 hours )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0901287</b>	WC0746070	---
Sample Date		Client Info		<b>07 May 2024</b>	07 Sep 2023	---
Machine Age	hrs	Client Info		<b>478</b>	0	---
Oil Age	hrs	Client Info		<b>478</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>8</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Copper	ppm	ASTM D5185m	>75	<b>4</b>	2	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

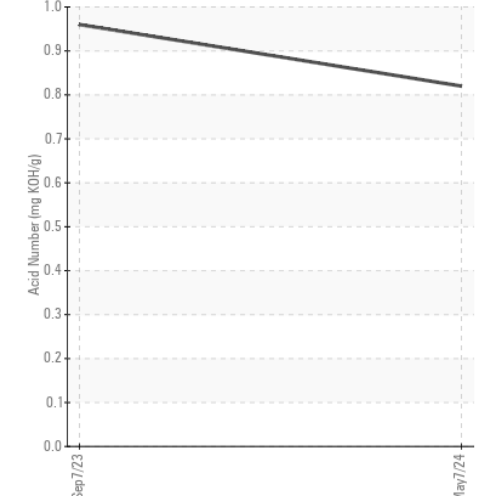
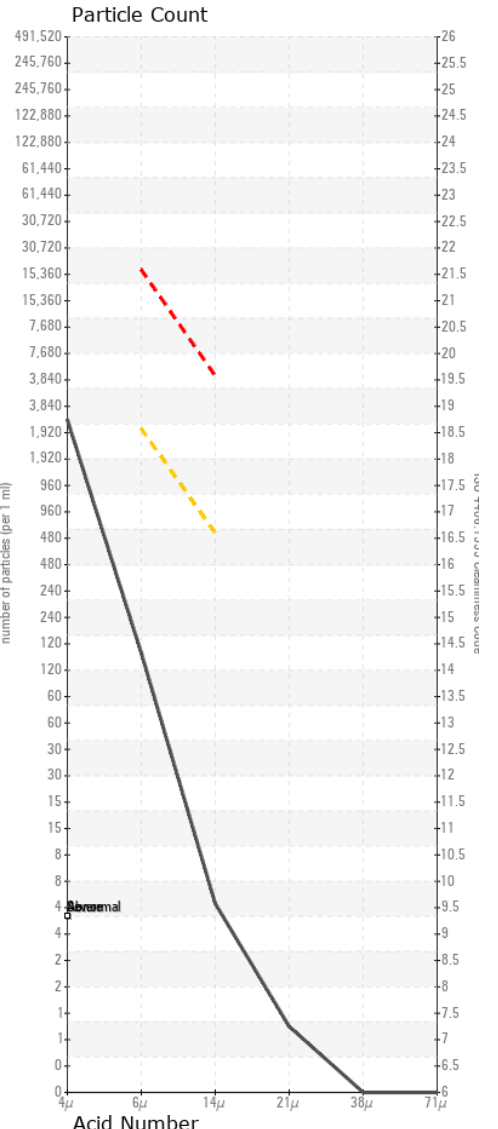
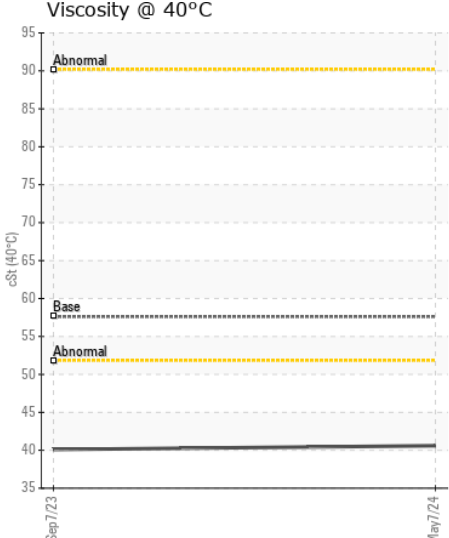
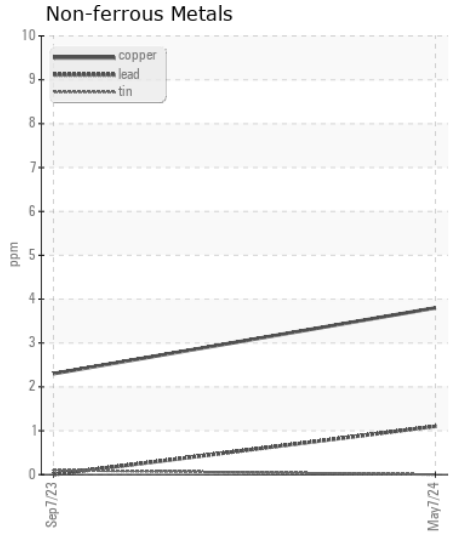
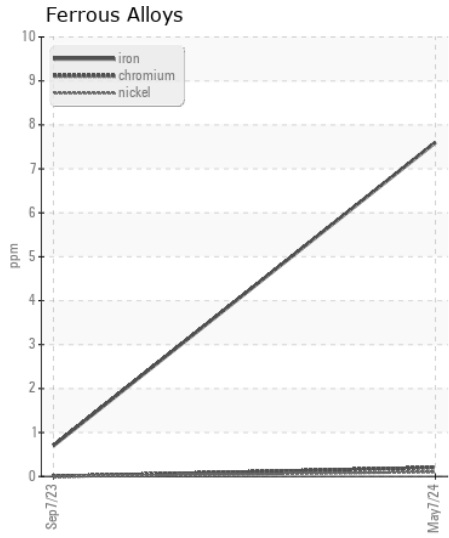
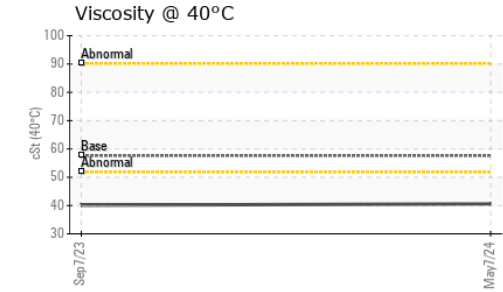
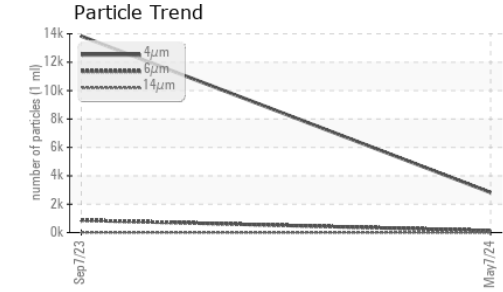
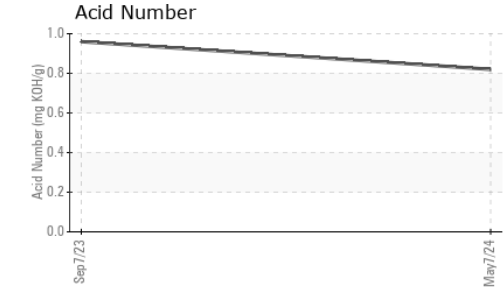
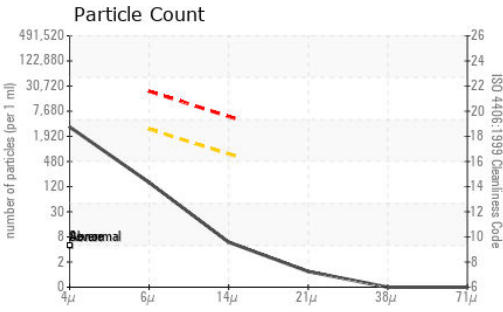
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647		<b>2822</b>	13834	---
Particles >6µm		ASTM D7647	>2500	<b>133</b>	869	---
Particles >14µm		ASTM D7647	>640	<b>5</b>	10	---
Particles >21µm		ASTM D7647	>160	<b>1</b>	2	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/18/16	<b>19/14/10</b>	21/17/10	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>3</b>	4	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	2	---
Calcium	ppm	ASTM D5185m		<b>237</b>	160	---
Phosphorus	ppm	ASTM D5185m		<b>697</b>	691	---
Zinc	ppm	ASTM D5185m		<b>919</b>	897	---
Sulfur	ppm	ASTM D5185m		<b>2020</b>	2032	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.82</b>	0.96	---
Visc @ 40°C	cSt	ASTM D445	57.6	<b>40.6</b>	40.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901287 **Received** : 21 May 2024  
**Lab Number** : 06186651 **Tested** : 23 May 2024  
**Unique Number** : 11043403 **Diagnosed** : 23 May 2024 - Don Baldrige  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: SHAWN SOUTH  
 shawn.south@sherwood.net

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)

T: x:  
 F: x: