

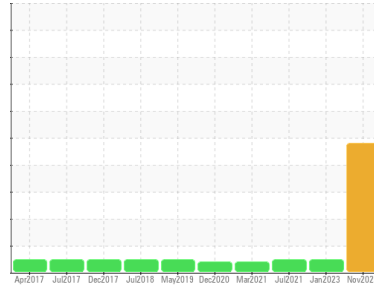


# PROBLEM SUMMARY



Area  
**OKLAHOMA/102/EG - EXCAVATOR**  
 Machine Id  
**20.512L [OKLAHOMA^102^EG - EXCAVATOR]**  
 Component  
**Swing Drive**  
 Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**

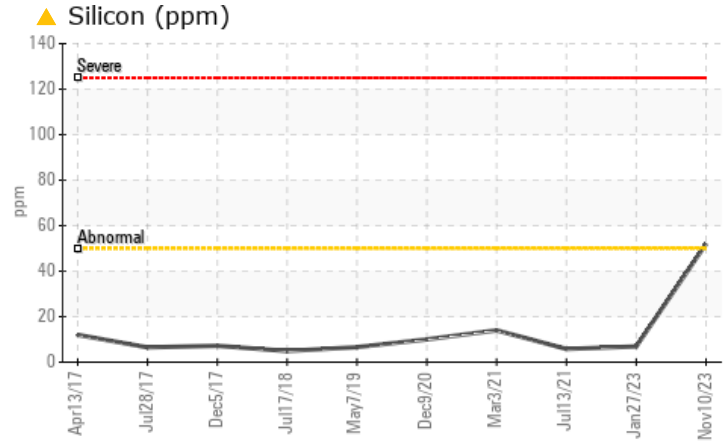
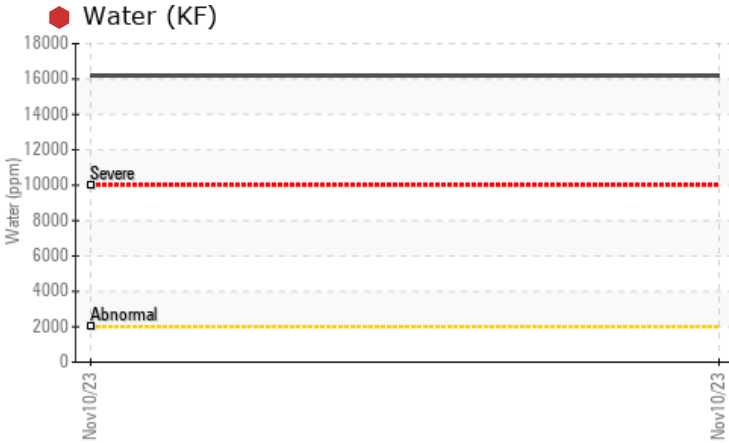
Sample Rating Trend



**WATER**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	NORMAL	NORMAL
Silicon	ppm	ASTM D5185m	>50	<b>▲ 52</b>	7	6
Water	%	ASTM D6304	>0.2	<b>● 1.62</b>	NEG	NEG
ppm Water	ppm	ASTM D6304	>2000	<b>● 16200</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>● 0.2%</b>	NEG	NEG

Customer Id: SHEWIC  
 Sample No.: WC0857258  
 Lab Number: 06012741  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### 27 Jan 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 13 Jul 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



### 03 Mar 2021 Diag: Don Baldrige

VIS DEBRIS



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report





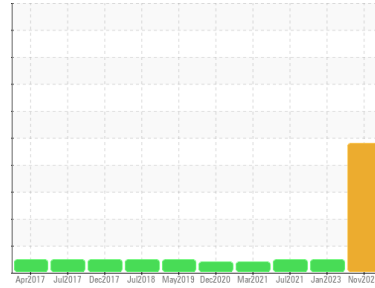
# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Area  
**OKLAHOMA/102/EG - EXCAVATOR**  
 Machine Id  
**20.512L [OKLAHOMA^102^EG - EXCAVATOR]**  
 Component  
**Swing Drive**  
 Fluid  
**MOBIL MOBILTRANS HD 50 (--- GAL)**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0857258</b>	WC0634207	WC0603232
Sample Date	Client Info		<b>10 Nov 2023</b>	27 Jan 2023	13 Jul 2021
Machine Age	hrs	Client Info	<b>8545</b>	7536	6281
Oil Age	hrs	Client Info	<b>1009</b>	5994	0
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >400	<b>113</b>	30	48
Chromium	ppm	ASTM D5185m >10	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>10</b>	<1	1
Lead	ppm	ASTM D5185m >50	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >200	<b>1</b>	0	<1
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m >5	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>26</b>	5	18
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>4</b>	3	4
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>39</b>	25	33
Calcium	ppm	ASTM D5185m	<b>2892</b>	2599	3000
Phosphorus	ppm	ASTM D5185m	<b>1009</b>	887	998
Zinc	ppm	ASTM D5185m	<b>1259</b>	1073	1235
Sulfur	ppm	ASTM D5185m	<b>8937</b>	10251	10677

## CONTAMINANTS

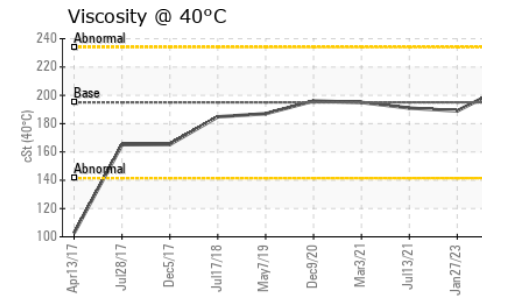
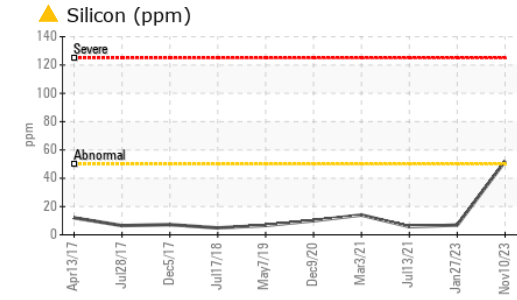
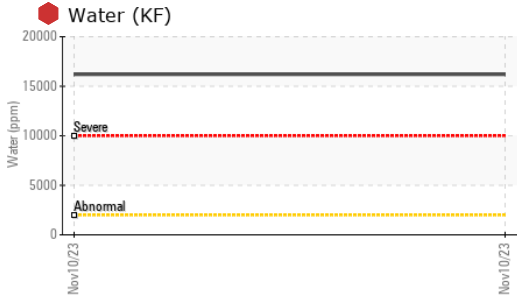
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>▲ 52</b>	7	6
Sodium	ppm	ASTM D5185m	<b>1</b>	0	2
Potassium	ppm	ASTM D5185m >20	<b>15</b>	2	<1
Water	%	ASTM D6304 >0.2	<b>● 1.62</b>	NEG	NEG
ppm Water	ppm	ASTM D6304 >2000	<b>● 16200</b>	---	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
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>● 0.2%</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



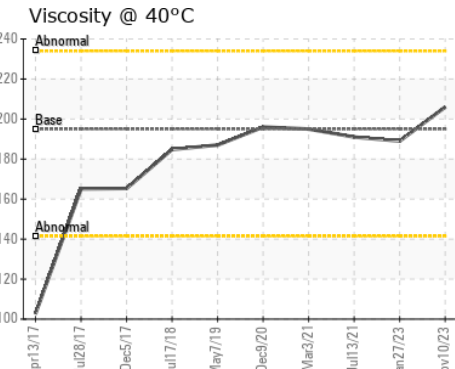
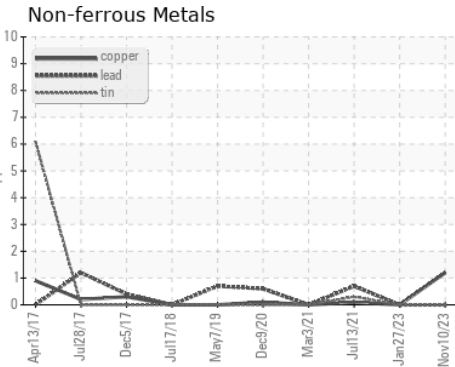
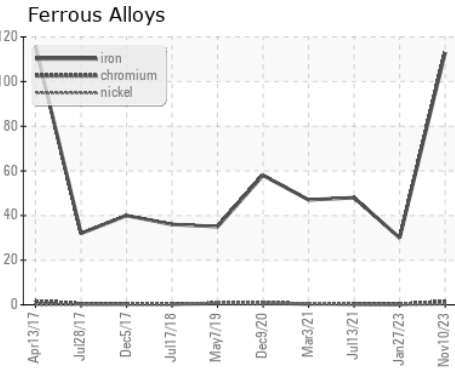
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	195	<b>206</b>	189	191

SAMPLE IMAGES	method	limit/base	current	history1	history2	
Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0857258  
**Lab Number** : 06012741  
**Unique Number** : 10751885  
**Test Package** : CONST ( Additional Tests: KF )

**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)