



# CONSTRUCTION EQUIPMENT

## SAIT GROVE RT5HOE 224541 - HYDRAULIC SYSTEM



**Sample No:** VCP449377

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP449377</b>	VCP333920	VCP179553	---
Sample Date	<b>21 Feb 2024</b>	25 Jan 2022	25 Jan 2017	---
Machine Hours	<b>10524</b>	1953	0	---
Oil Hours	<b>0</b>	0	700	---
Oil Changed	<b>Not Changd</b>	N/A	Not Changd	---
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	---

### STRONGCO EQUIPMENT--CALGARY

7923 54TH STREET SE  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>30.9</b>	27.3	▲ 27.7	---
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### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		▲ <b>11412</b>	● 117743	10566	---
Particles >6µm		■ <b>523</b>	● 30114	■ 153	---
Particles >14µm		■ <b>26</b>	▲ 1203	■ 21	---
ISO 4406:1999 (c)		<b>21/16/12</b>	24/22/17	21/14/12	---
Silicon	ppm	● <b>4046</b>	● 5606	● 2170	---
Sodium	ppm	■ <b>1</b>	■ 1	■ 3	---
Potassium	ppm	■ <b>1</b>	■ <1	■ 0	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you flush the component thoroughly before re-filling with oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. High concentration of dirt present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

Iron	ppm	■ <b>2</b>	■ 2	■ 2	---
Copper	ppm	■ <b>4</b>	■ 6	■ 2	---
Lead	ppm	■ <b>&lt;1</b>	■ <1	■ <1	---
Tin	ppm	■ <b>0</b>	■ <1	■ 0	---
Aluminum	ppm	■ <b>&lt;1</b>	■ <1	■ <1	---
Chromium	ppm	■ <b>2</b>	■ 3	■ 3	---
Molybdenum	ppm	<b>0</b>	<1	<1	---
Nickel	ppm	■ <b>&lt;1</b>	<1	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>792</b>	1172	1419	---
Magnesium	ppm	<b>4</b>	4	6	---
Zinc	ppm	<b>627</b>	759	789	---
Phosphorus	ppm	<b>562</b>	687	659	---
Barium	ppm	<b>0</b>	<1	<1	---
Boron	ppm	<b>15</b>	17	14	---

**Depot:** VOLVO3909  
**Unique No:** 5734546  
**Signed:** Kevin Marson  
**Report Date:** 23 Feb 2024

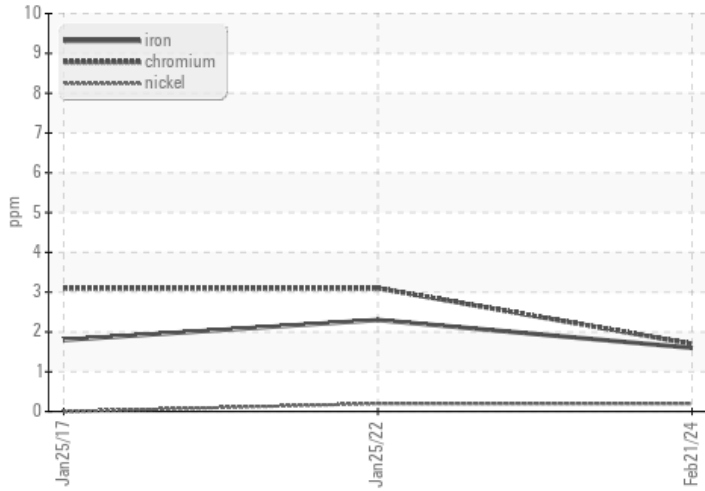


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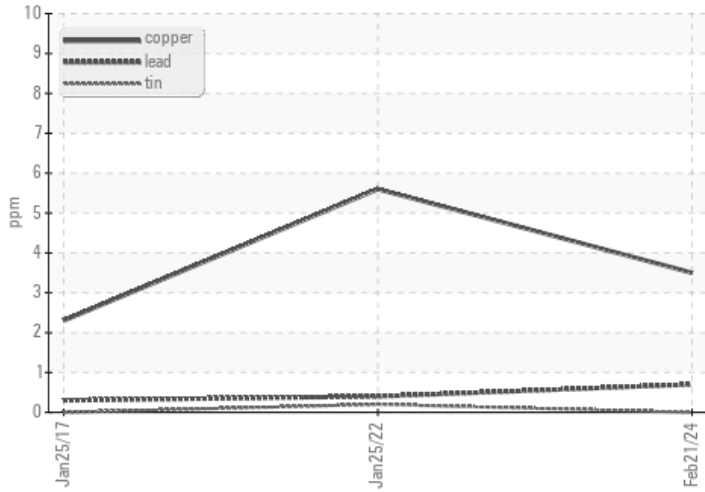


## GRAPHS

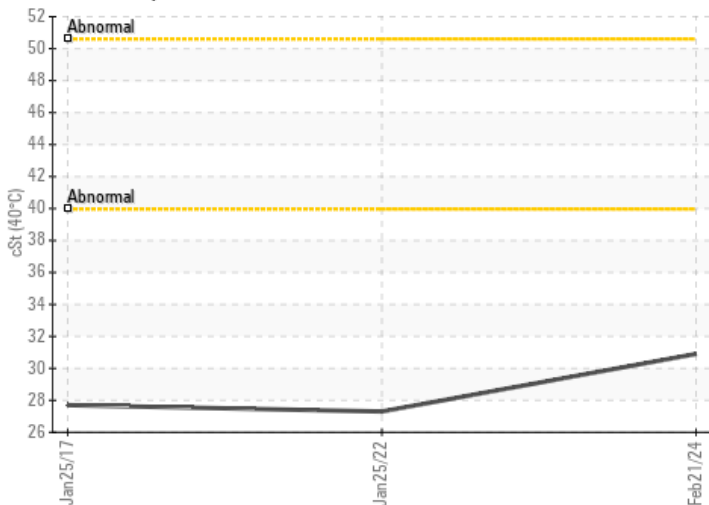
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

