



# CONSTRUCTION EQUIPMENT

## SWO-066738 VOLVO A45G 352799 - HYDRAULIC SYSTEM



**Sample No:** VCP431957  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-066738



### SAMPLE INFORMATION

Sample Number	<b>VCP431957</b>	VCP417099	VCP405913	VCP369035
Sample Date	<b>25 Oct 2023</b>	12 Jul 2023	29 Mar 2023	16 Nov 2022
Machine Hours	<b>4451</b>	3946	3445	2976
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.9</b>	44.5	45.0	45.1
Acid Number (AN)	mg KOH/g	<b>0.37</b>	0.37	0.50	0.43



### CONTAMINATION

Particles >4µm		<b>2216</b>	721	3783	3964
Particles >6µm		<b>463</b>	110	1216	1055
Particles >14µm		<b>46</b>	8	83	69
ISO 4406:1999 (c)		<b>18/16/13</b>	17/14/10	19/17/14	19/17/13
Silicon	ppm	<b>4</b>	7	5	4
Sodium	ppm	<b>2</b>	0	<1	1
Potassium	ppm	<b>0</b>	<1	1	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>&lt;1</b>	9	<1	1
Copper	ppm	<b>6</b>	3	9	13
Lead	ppm	<b>&lt;1</b>	3	2	1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	1	0	<1
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>0</b>	<1	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>18</b>	68	52	52
Magnesium	ppm	<b>0</b>	2	11	6
Zinc	ppm	<b>335</b>	457	451	426
Phosphorus	ppm	<b>232</b>	345	346	326
Barium	ppm	<b>0</b>	1	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10714771  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

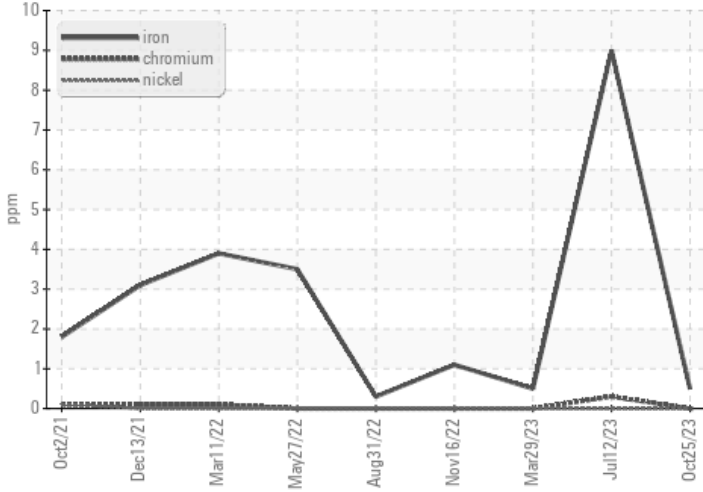


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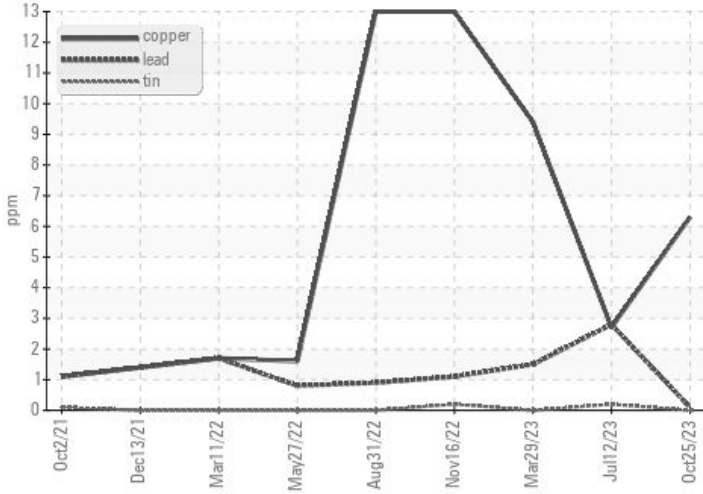


## VOLVO GRAPHS

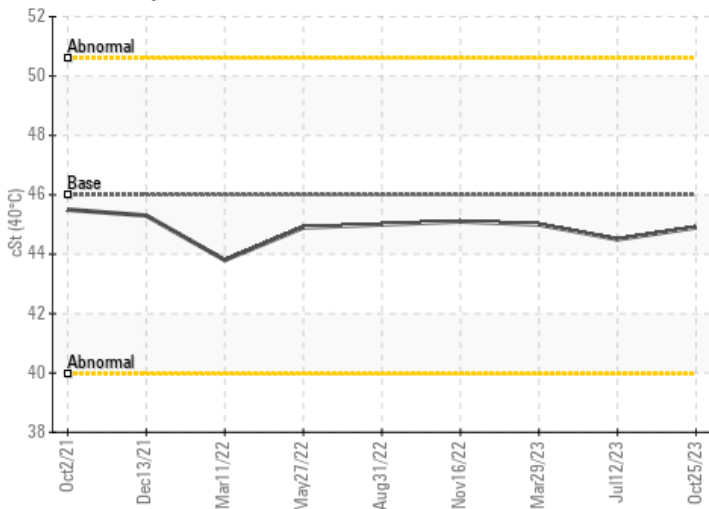
### Ferrous Alloys



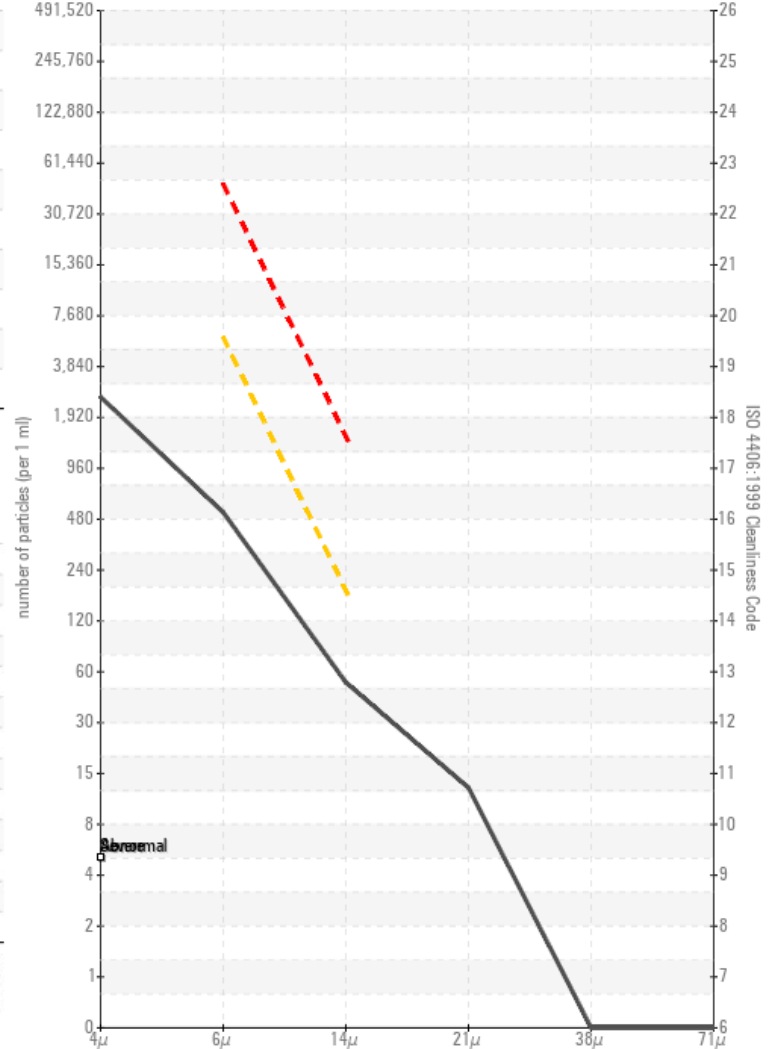
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

