



# CONSTRUCTION EQUIPMENT

## SWO-066738 VOLVO A45G 352639 - HYDRAULIC SYSTEM



**Sample No:** VCP427470  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-066738



### SAMPLE INFORMATION

Sample Number	<b>VCP427470</b>	VCP369322	VCP410479	VCP395235
Sample Date	<b>23 Oct 2023</b>	07 Aug 2023	12 May 2023	17 Feb 2023
Machine Hours	<b>4956</b>	4377	3923	3418
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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 US 35207

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.5</b>	43.2	42.3	42.3
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.36	0.38	0.35



### CONTAMINATION

Particles >4µm		<b>973</b>	1992	193	1912
Particles >6µm		<b>190</b>	424	84	689
Particles >14µm		<b>27</b>	27	14	63
ISO 4406:1999 (c)		<b>17/15/12</b>	18/16/12	15/14/11	18/17/13
Silicon	ppm	<b>3</b>	4	6	5
Sodium	ppm	<b>1</b>	2	1	2
Potassium	ppm	<b>0</b>	<1	0	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>3</b>	4	8	6
Copper	ppm	<b>1</b>	2	2	2
Lead	ppm	<b>0</b>	1	1	2
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	<1	2	<1
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>67</b>	108	64	58
Magnesium	ppm	<b>0</b>	11	<1	<1
Zinc	ppm	<b>385</b>	419	425	388
Phosphorus	ppm	<b>258</b>	334	343	308
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10714773  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

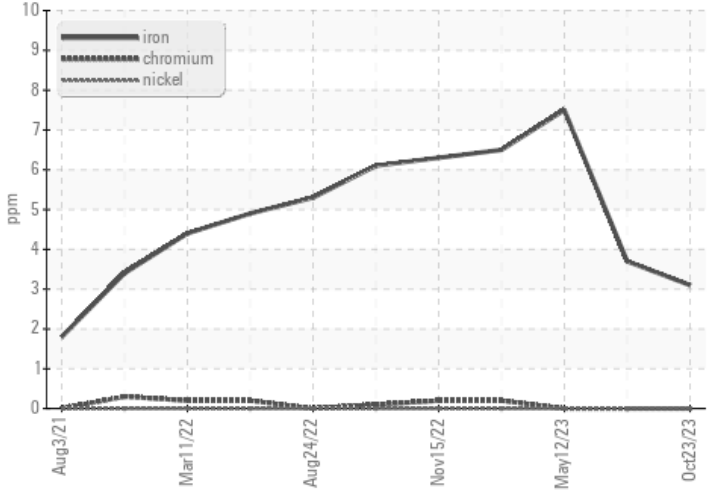


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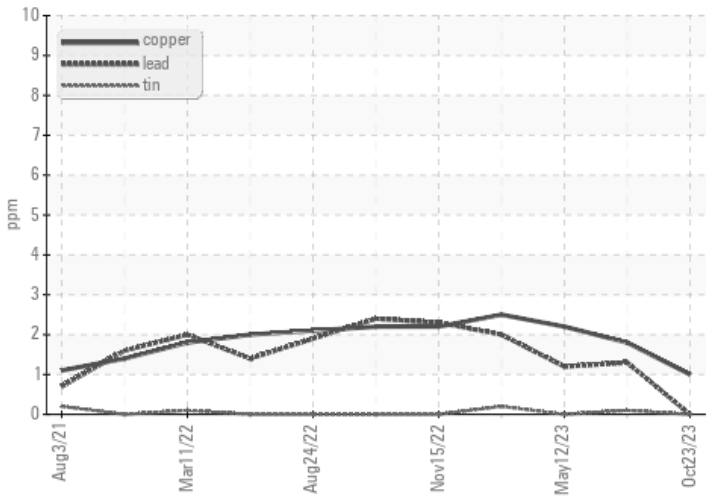


## GRAPHS

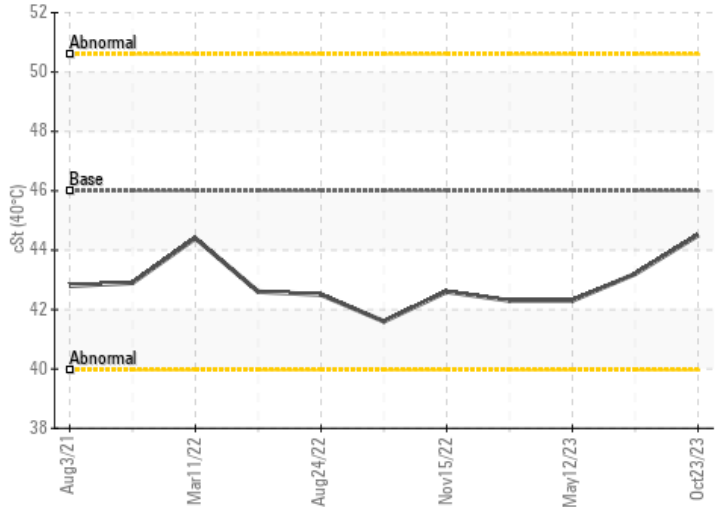
### Ferrous Alloys



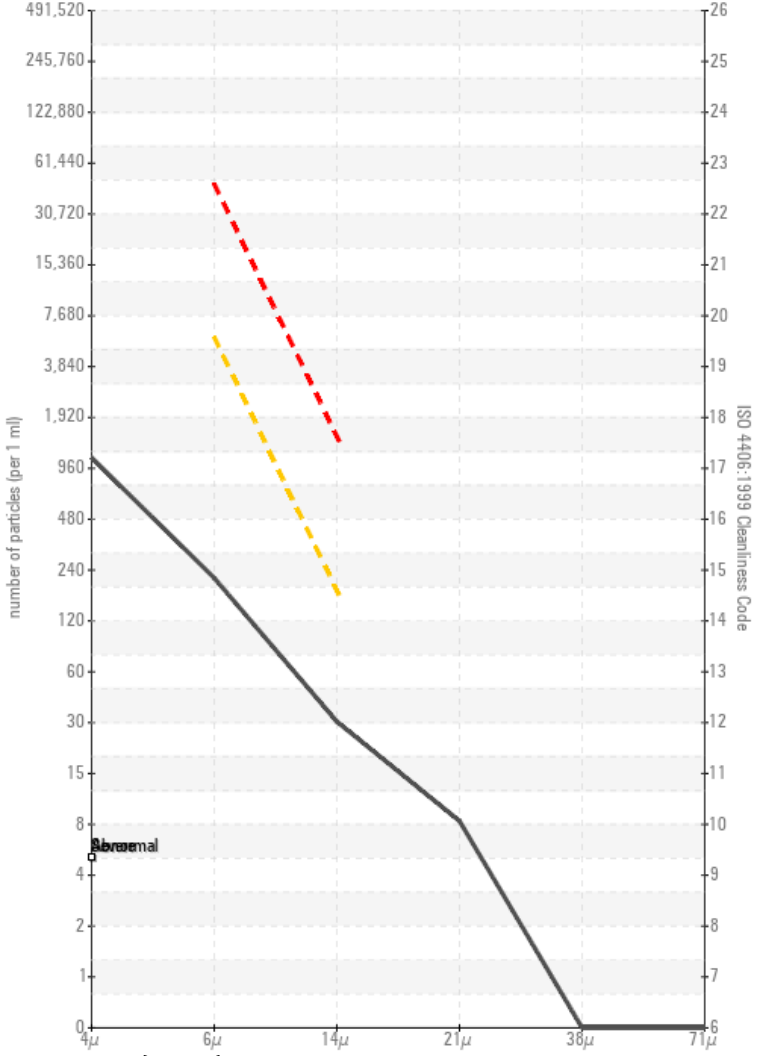
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

