



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352973 - HYDRAULIC SYSTEM



**Sample No:** VCP433866  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433866</b>	VCP426209	VCP405904	VCP405255
Sample Date	<b>08 Nov 2023</b>	24 Aug 2023	06 Jun 2023	21 Mar 2023
Machine Hours	<b>3521</b>	3044	2472	2001
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	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>41.5</b>	42.5	42.9	43.4
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.36	0.39	0.40



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>2412</b>	1813	1399	3907
Particles >6µm		<b>427</b>	500	389	1300
Particles >14µm		<b>19</b>	23	24	111
ISO 4406:1999 (c)		<b>18/16/11</b>	18/16/12	18/16/12	19/17/14
Silicon	ppm	<b>7</b>	6	6	6
Sodium	ppm	<b>&lt;1</b>	<1	0	<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>7</b>	6	5	3
Copper	ppm	<b>3</b>	2	2	<1
Lead	ppm	<b>2</b>	2	2	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>1</b>	3	0	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>57</b>	75	69	64
Magnesium	ppm	<b>0</b>	2	1	0
Zinc	ppm	<b>424</b>	459	453	443
Phosphorus	ppm	<b>320</b>	356	331	340
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10750589  
**Signed:** Don Baldrige  
**Report Date:** 21 Nov 2023

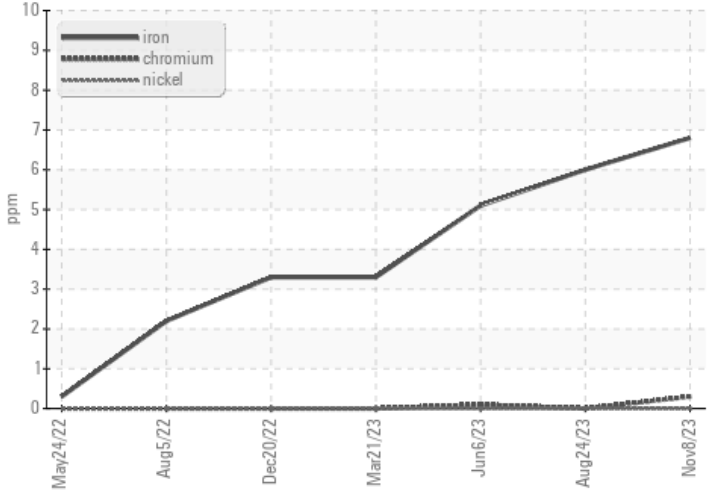


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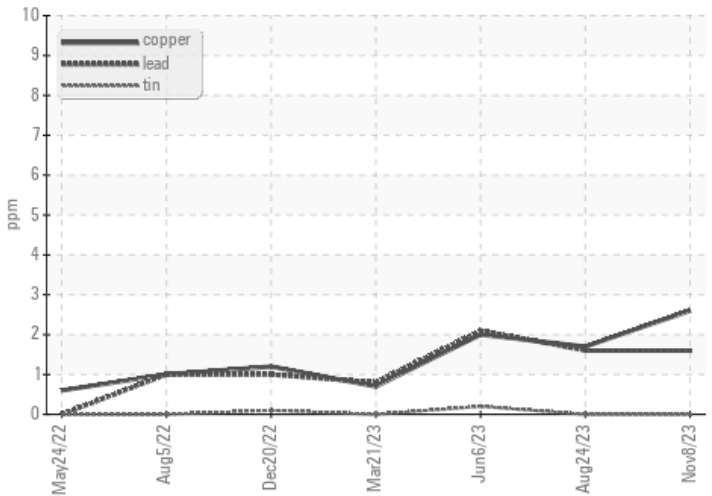


## GRAPHS

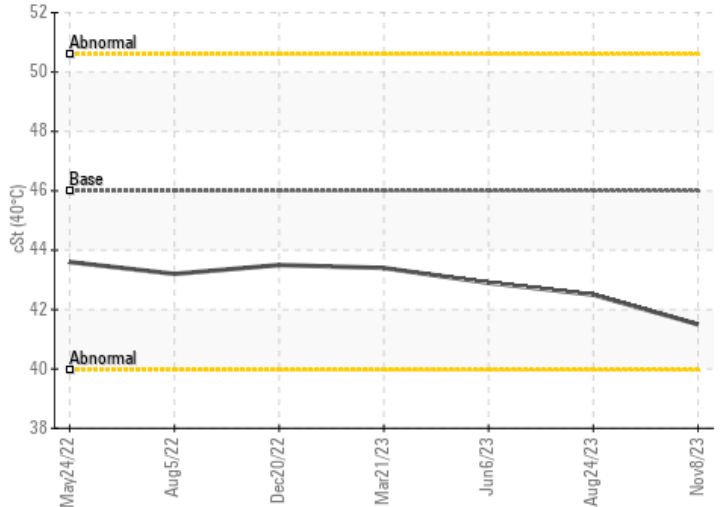
### Ferrous Alloys



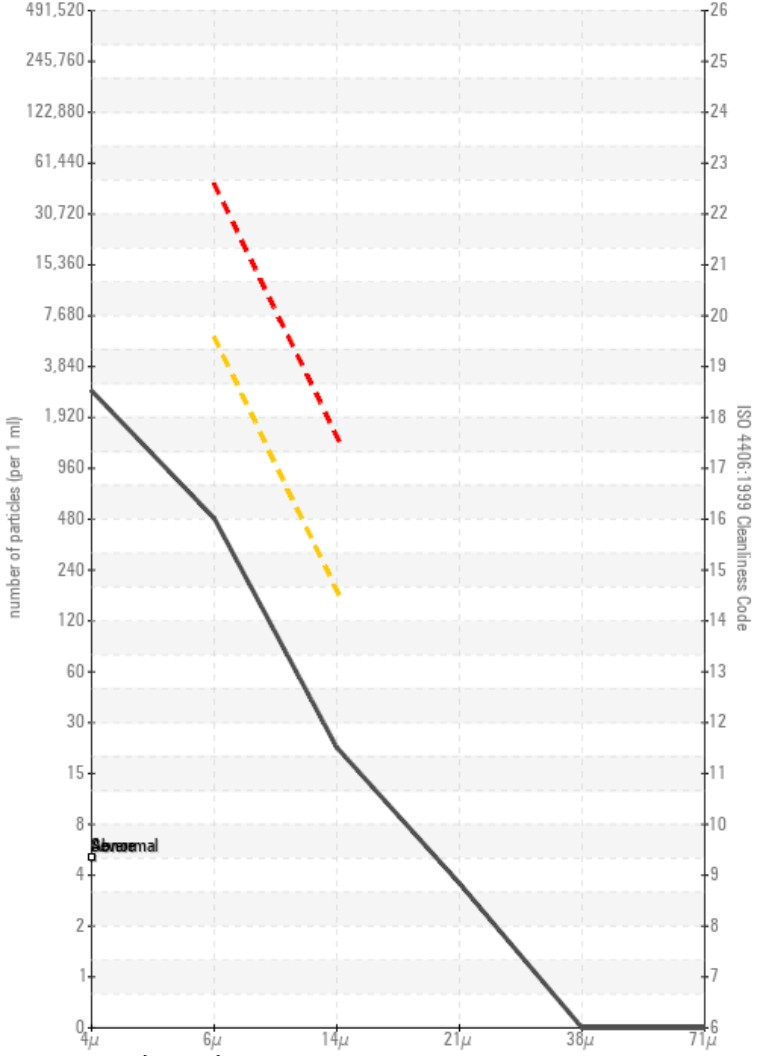
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

