



# CONSTRUCTION EQUIPMENT

## SWO-066750 VOLVO A45G 352736 - HYDRAULIC SYSTEM



**Sample No:** VCP427471  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWO-066750



### SAMPLE INFORMATION

Sample Number	<b>VCP427471</b>	VCP425070	VCP400727	VCP397719
Sample Date	<b>25 Oct 2023</b>	01 Aug 2023	02 May 2023	07 Dec 2022
Machine Hours	<b>4412</b>	7719	3396	2918
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**SAIIA CONSTRUCTION LLC**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.8</b>	44.3	45.9	44.8
Acid Number (AN)	mg KOH/g	<b>0.33</b>	0.38	0.33	0.32



### CONTAMINATION

Particles >4µm		<b>637</b>	1211	1517	1373
Particles >6µm		<b>183</b>	118	392	404
Particles >14µm		<b>15</b>	10	51	39
ISO 4406:1999 (c)		<b>16/15/11</b>	17/14/10	18/16/13	18/16/12
Silicon	ppm	<b>5</b>	7	6	5
Sodium	ppm	<b>2</b>	3	2	<1
Potassium	ppm	<b>&lt;1</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>2</b>	9	4	4
Copper	ppm	<b>6</b>	3	6	5
Lead	ppm	<b>&lt;1</b>	2	<1	2
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	2	0	1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	0	<1	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>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>58</b>	66	58	59
Magnesium	ppm	<b>0</b>	3	3	0
Zinc	ppm	<b>346</b>	438	430	423
Phosphorus	ppm	<b>233</b>	333	330	327
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10714770  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

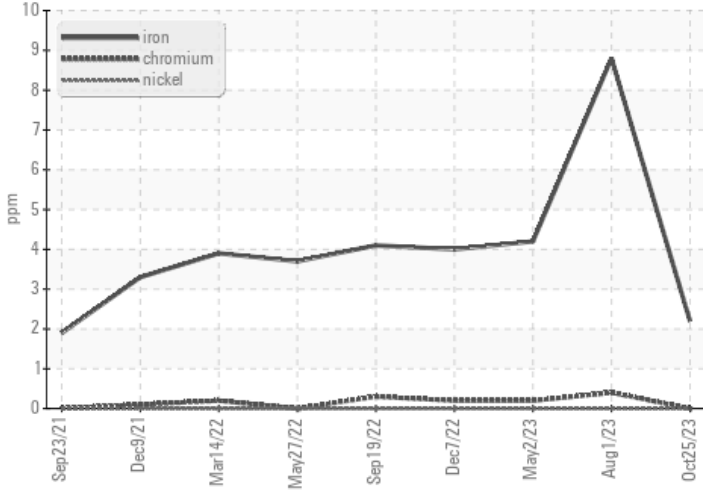


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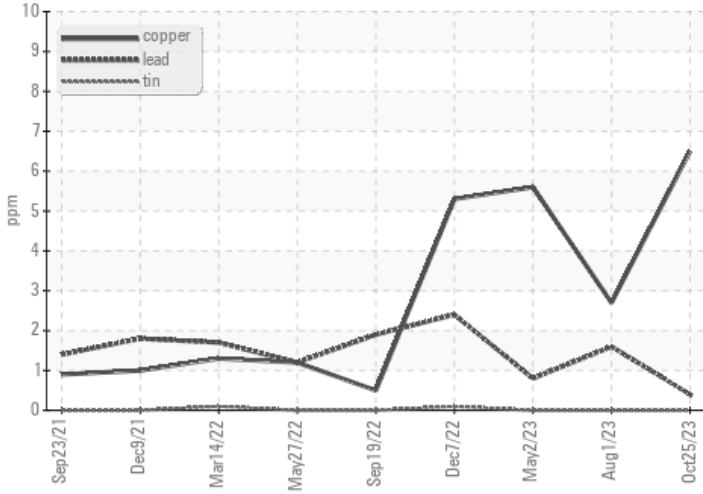


## VOLVO GRAPHS

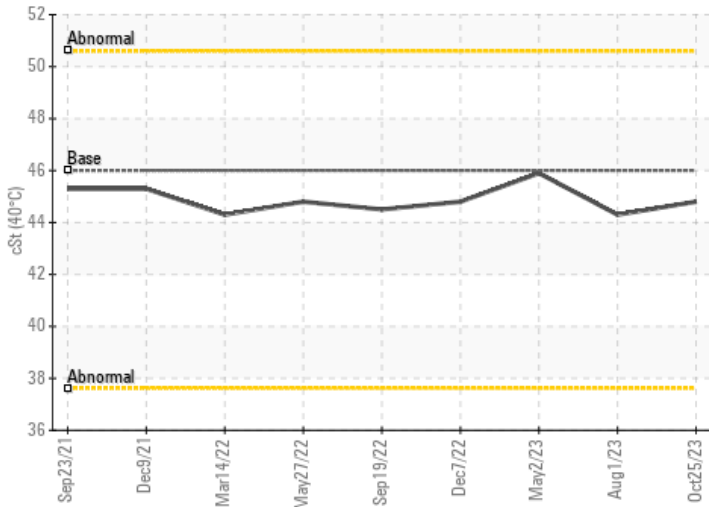
Ferrous Alloys



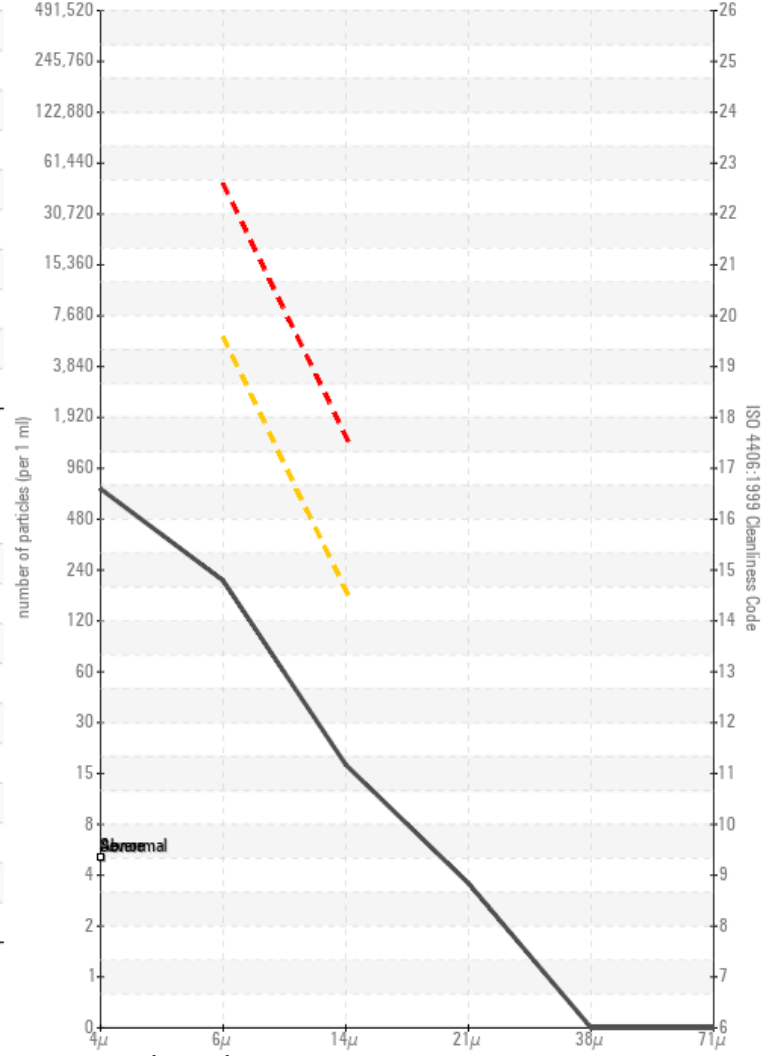
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

