



# CONSTRUCTION EQUIPMENT

## SWO-066739 VOLVO A45G 352698 - HYDRAULIC SYSTEM



**Sample No:** VCP427466  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-066739



### SAMPLE INFORMATION

Sample Number	<b>VCP427466</b>	VCP406867	VCP410133	VCP367725
Sample Date	<b>23 Oct 2023</b>	07 Aug 2023	16 May 2023	17 Jan 2023
Machine Hours	<b>5103</b>	4553	4038	3513
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</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>44.1</b>	46.3	43.9	43.6
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.46	0.29	0.36



### CONTAMINATION

Particles >4µm		<b>925</b>	1661	703	2480
Particles >6µm		<b>174</b>	401	195	849
Particles >14µm		<b>20</b>	16	15	61
ISO 4406:1999 (c)		<b>17/15/11</b>	18/16/11	17/15/11	18/17/13
Silicon	ppm	<b>4</b>	5	6	6
Sodium	ppm	<b>2</b>	2	2	0
Potassium	ppm	<b>&lt;1</b>	<1	<1	2

### 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>1</b>	2	8	3
Copper	ppm	<b>4</b>	5	2	12
Lead	ppm	<b>&lt;1</b>	2	2	2
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>0</b>	<1	2	0
Chromium	ppm	<b>0</b>	0	<1	0
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>46</b>	58	72	60
Magnesium	ppm	<b>0</b>	9	4	5
Zinc	ppm	<b>353</b>	385	464	425
Phosphorus	ppm	<b>240</b>	306	352	318
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10714772  
**Signed:** Don Baldrige  
**Report Date:** 31 Oct 2023

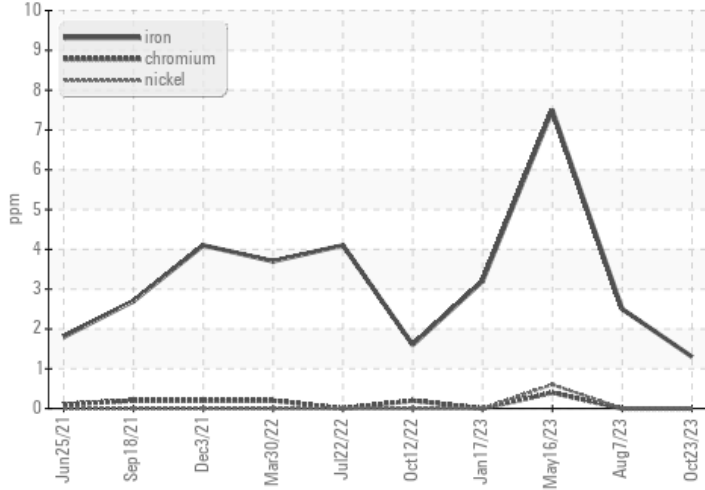


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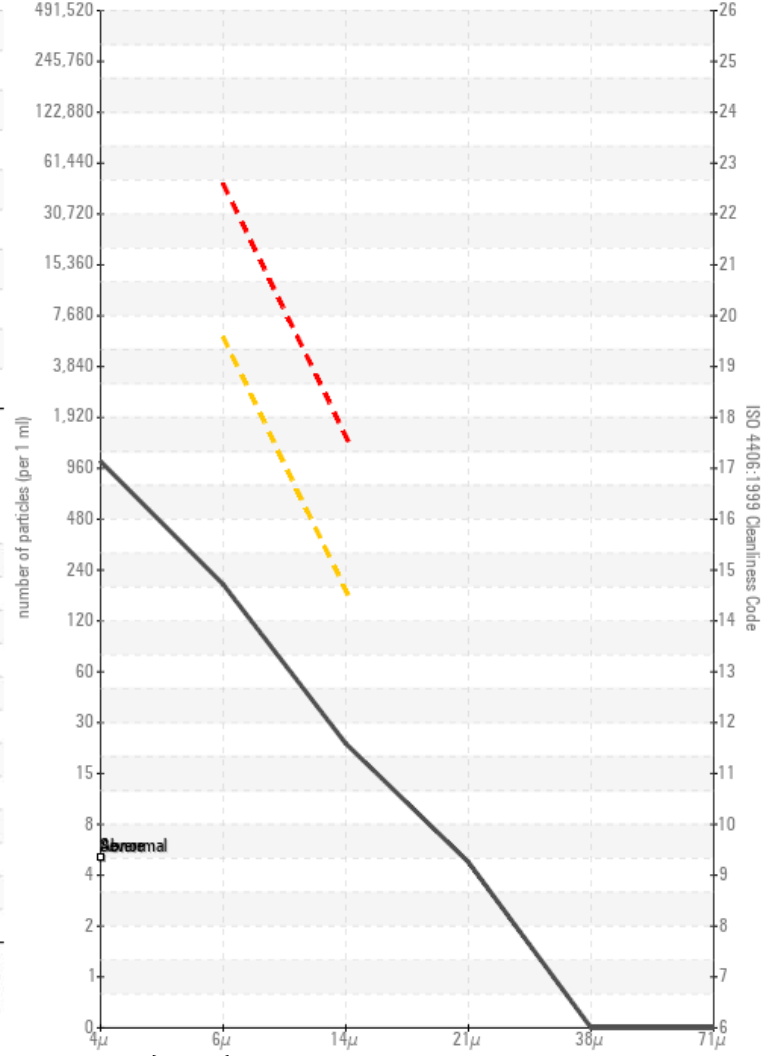


## VOLVO GRAPHS

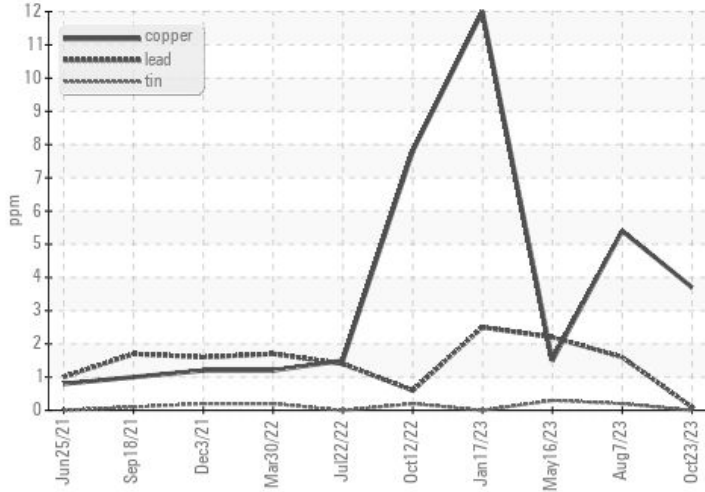
Ferrous Alloys



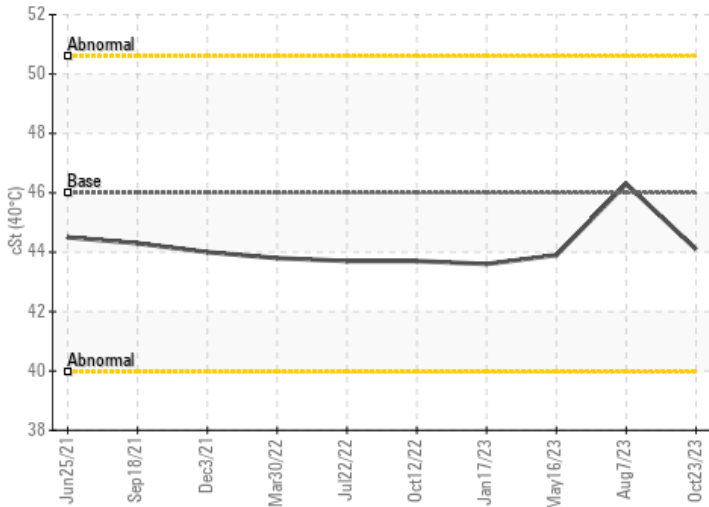
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

