



# CONSTRUCTION EQUIPMENT

## SWO066742 VOLVO EC250E 310275 - HYDRAULIC SYSTEM



**Sample No:** VCP434418  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO066742



### SAMPLE INFORMATION

Sample Number	<b>VCP434418</b>	VCP408945	VCP395260	VCP381249
Sample Date	<b>13 Oct 2023</b>	23 Jun 2023	17 Feb 2023	18 Oct 2022
Machine Hours	<b>8082</b>	7550	7053	6547
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>49.0</b>	46.7	45.2	46.1
Acid Number (AN)	mg KOH/g	<b>0.45</b>	0.51	0.42	0.54



### CONTAMINATION

Particles >4µm		<b>7935</b>	31127	1707	17104
Particles >6µm		<b>1809</b>	5244	413	887
Particles >14µm		<b>92</b>	201	81	26
ISO 4406:1999 (c)		<b>20/18/14</b>	22/20/15	18/16/14	21/17/12
Silicon	ppm	<b>5</b>	5	6	5
Sodium	ppm	<b>1</b>	2	2	0
Potassium	ppm	<b>&lt;1</b>	2	0	1

### 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>10</b>	13	11	13
Copper	ppm	<b>4</b>	4	4	7
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	4	3
Chromium	ppm	<b>10</b>	12	12	12
Molybdenum	ppm	<b>0</b>	2	2	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>86</b>	109	102	165
Magnesium	ppm	<b>4</b>	10	5	4
Zinc	ppm	<b>522</b>	543	424	516
Phosphorus	ppm	<b>376</b>	412	330	372
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>0</b>	0	0	2

**Depot:** SAIBIR  
**Unique No:** 10700386  
**Signed:** Jonathan Hester  
**Report Date:** 20 Oct 2023

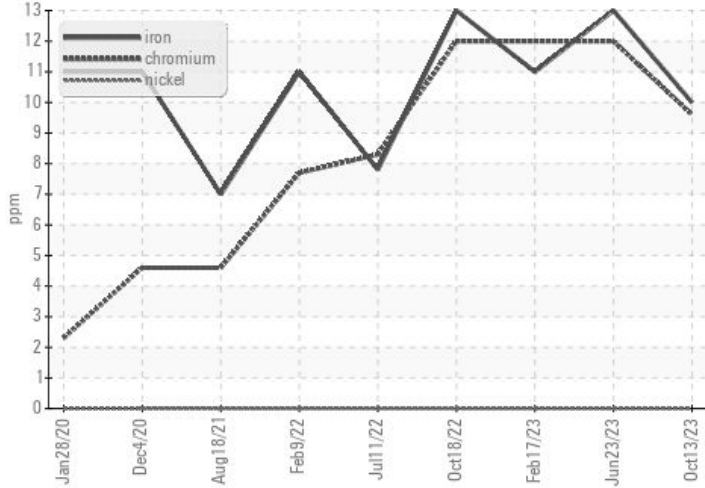


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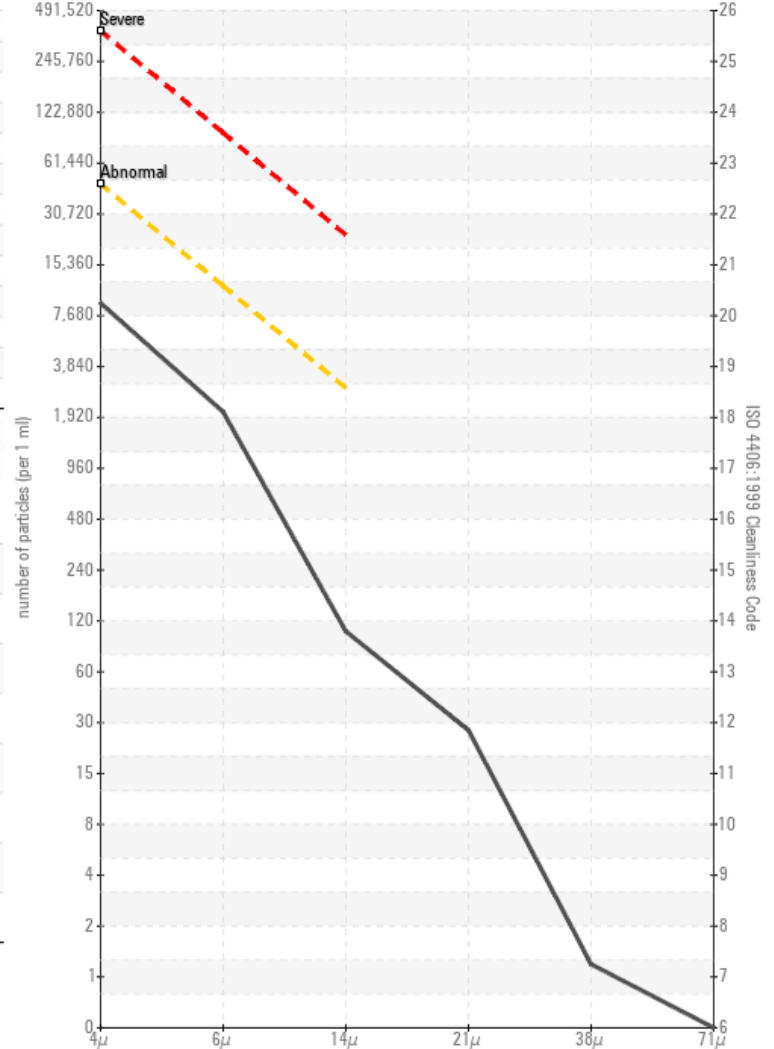


## VOLVO GRAPHS

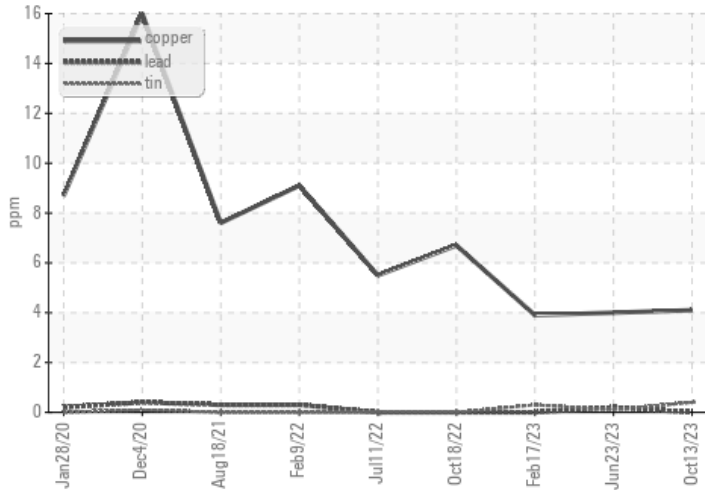
Ferrous Alloys



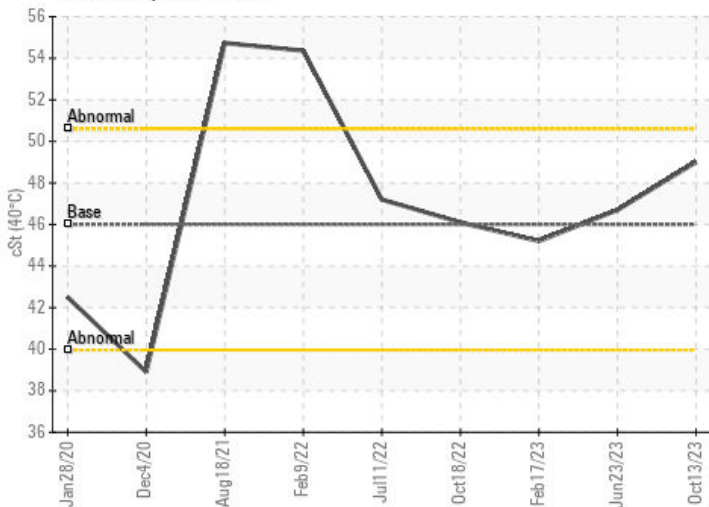
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

