



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 342321 - HYDRAULIC SYSTEM



**Sample No:** VCP412978  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP412978</b>	VCP403656	VCP369487	VCP330061
Sample Date	<b>11 Jul 2023</b>	22 Mar 2023	23 Nov 2022	16 Aug 2022
Machine Hours	<b>8493</b>	8012	7534	6948
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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

Visc @ 40°C	cSt	█ <b>42.3</b>	█ 42.7	█ 42.3	█ 41.1
Acid Number (AN)	mg KOH/g	█ <b>0.38</b>	█ 0.41	█ 0.38	█ 0.38

### CONTAMINATION

Particles >4µm		<b>38652</b>	708	9120	25941
Particles >6µm		▲ <b>14197</b>	█ 209	█ 2509	█ 3500
Particles >14µm		▲ <b>759</b>	█ 28	█ 96	█ 62
ISO 4406:1999 (c)		<b>22/21/17</b>	17/15/12	20/19/14	22/19/13
Silicon	ppm	█ <b>6</b>	█ 7	█ 6	█ 7
Sodium	ppm	█ <b>0</b>	█ 3	█ <1	█ 3
Potassium	ppm	█ <b>1</b>	█ 0	█ 1	█ <1

**Diagnosis**  
 We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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>	█ 11	█ 11	█ 12
Copper	ppm	█ <b>7</b>	█ 9	█ 10	█ 10
Lead	ppm	█ <b>2</b>	█ 3	█ 4	█ 5
Tin	ppm	█ <b>0</b>	█ 0	█ 0	█ <1
Aluminum	ppm	█ <b>&lt;1</b>	█ 2	█ 2	█ 3
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ <1
Molybdenum	ppm	█ <b>3</b>	█ 4	█ 4	█ 4
Nickel	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	█ <b>0</b>	█ <1	█ 0	█ 0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	█ <b>133</b>	█ 124	█ 128	█ 113
Magnesium	ppm	█ <b>14</b>	█ 12	█ 14	█ 14
Zinc	ppm	█ <b>472</b>	█ 460	█ 454	█ 479
Phosphorus	ppm	█ <b>356</b>	█ 358	█ 340	█ 354
Barium	ppm	█ <b>2</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>2</b>	█ 3	█ 4	█ 5

**Depot:** SAIBIR  
**Unique No:** 10574249  
**Signed:** Don Baldrige  
**Report Date:** 28 Jul 2023

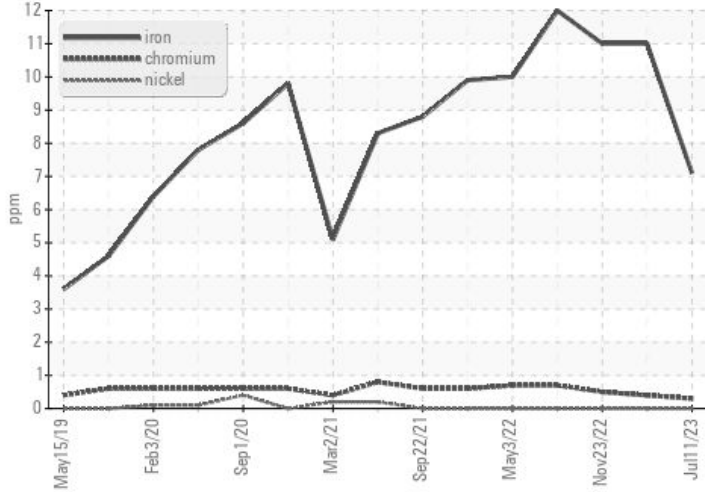


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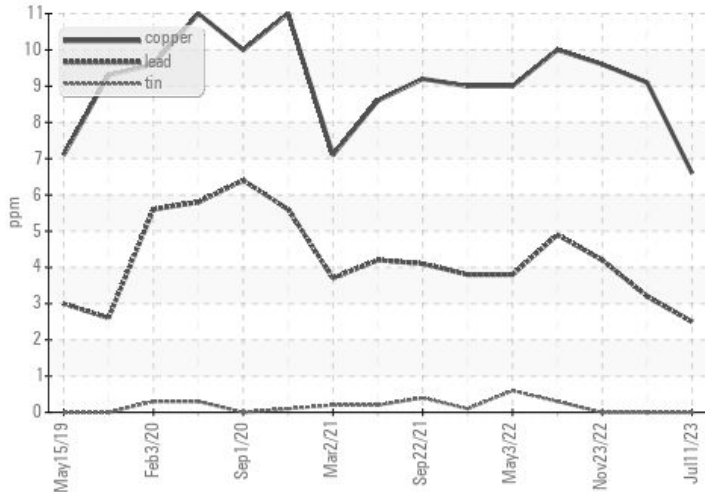


## GRAPHS

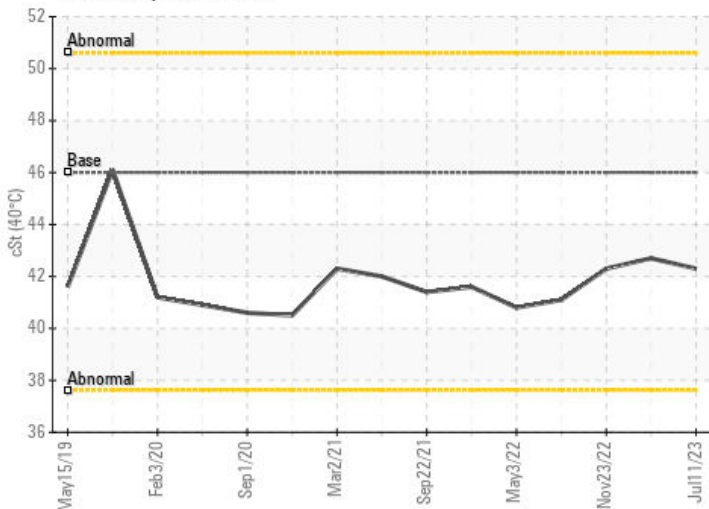
Ferrous Alloys



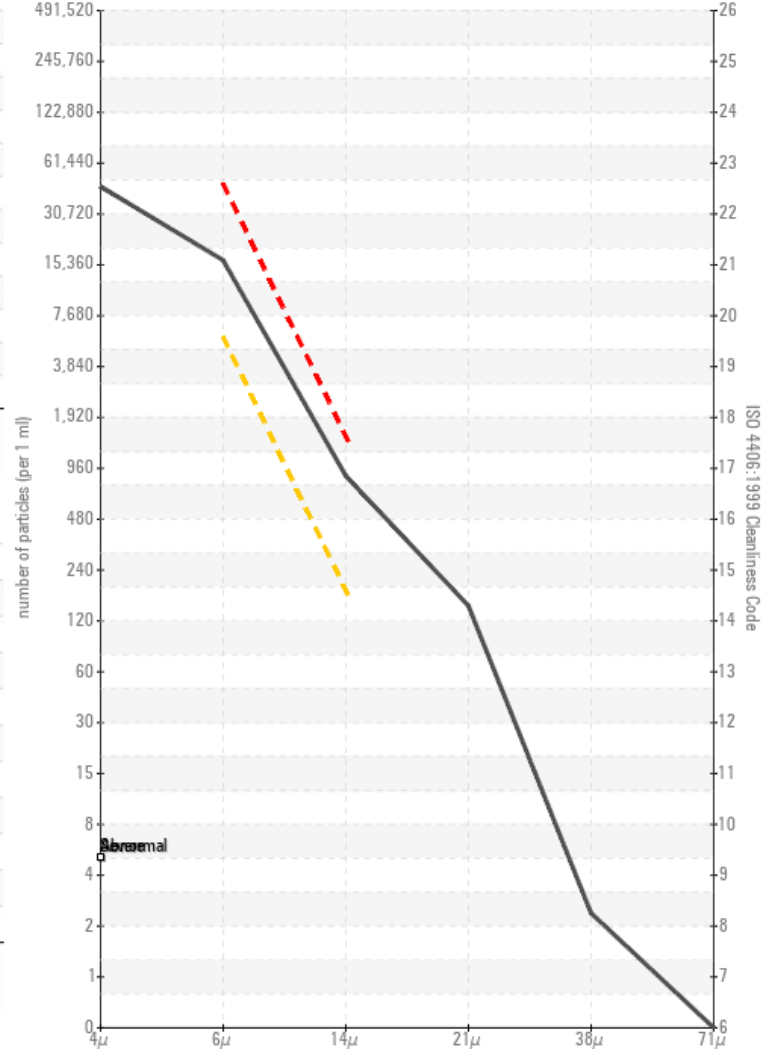
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

