



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 742658 - HYDRAULIC SYSTEM



**Sample No:** VCP0008121  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0008121</b>	VCP0008119	VCP0008086	VCP303970
Sample Date	<b>11 Dec 2023</b>	04 Dec 2023	02 Oct 2023	10 Mar 2021
Machine Hours	<b>1534</b>	1534	0	938
Oil Hours	<b>1534</b>	1534	0	0
Oil Changed	<b>N/A</b>	N/A	N/A	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 96.5</b>	■ 45.3	■ 45.9	■ 47.9
Acid Number (AN)	mg KOH/g	<b>■ 1.44</b>	■ 0.41	■ 0.39	■ 0.471

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>76669</b>	1278	22300	---
Particles >6µm		<b>▲ 18713</b>	■ 490	▲ 8091	---
Particles >14µm		<b>▲ 348</b>	■ 83	▲ 706	---
ISO 4406:1999 (c)		<b>23/21/16</b>	17/16/14	22/20/17	---
Silicon	ppm	■ 8	■ 1	■ 5	■ 0
Sodium	ppm	■ 1	■ 0	■ 2	■ 1
Potassium	ppm	■ 1	■ 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 oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

### WEAR METALS

Iron	ppm	■ <1	■ 0	■ 11	■ 6
Copper	ppm	■ 0	■ 0	■ 5	■ 6
Lead	ppm	■ 0	■ 0	■ 4	■ 3
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	■ <1	■ <1	■ 5	■ 0
Chromium	ppm	■ 0	■ <1	■ 1	■ <1
Molybdenum	ppm	▲ 38	■ <1	<1	■ 0
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 0	0	■ <1
Vanadium	ppm	<1	0	0	0

### ADDITIVES

Calcium	ppm	▲ 1633	■ 55	93	■ 93
Magnesium	ppm	▲ 470	■ <1	2	■ 0
Zinc	ppm	▲ 1124	■ 420	469	■ 704
Phosphorus	ppm	▲ 955	■ 322	341	■ 558
Barium	ppm	■ 0	■ 0	0	■ 0
Boron	ppm	▲ 73	■ 0	0	■ 1

**Depot:** VOLVO0092  
**Unique No:** 10783210  
**Signed:** Jonathan Hester  
**Report Date:** 18 Dec 2023

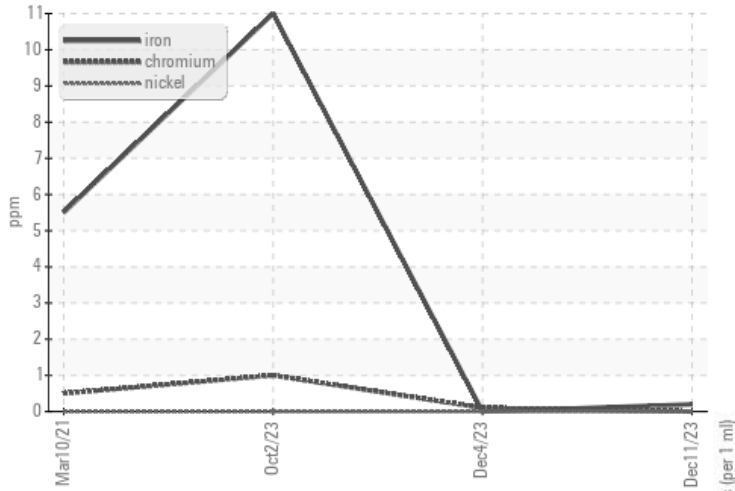


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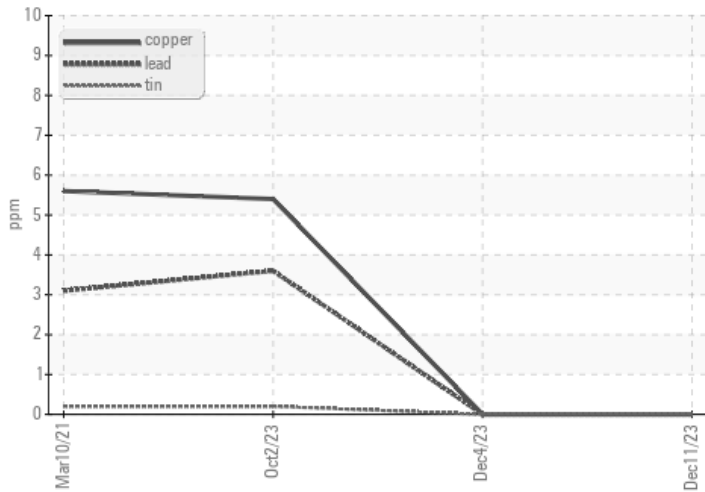


## GRAPHS

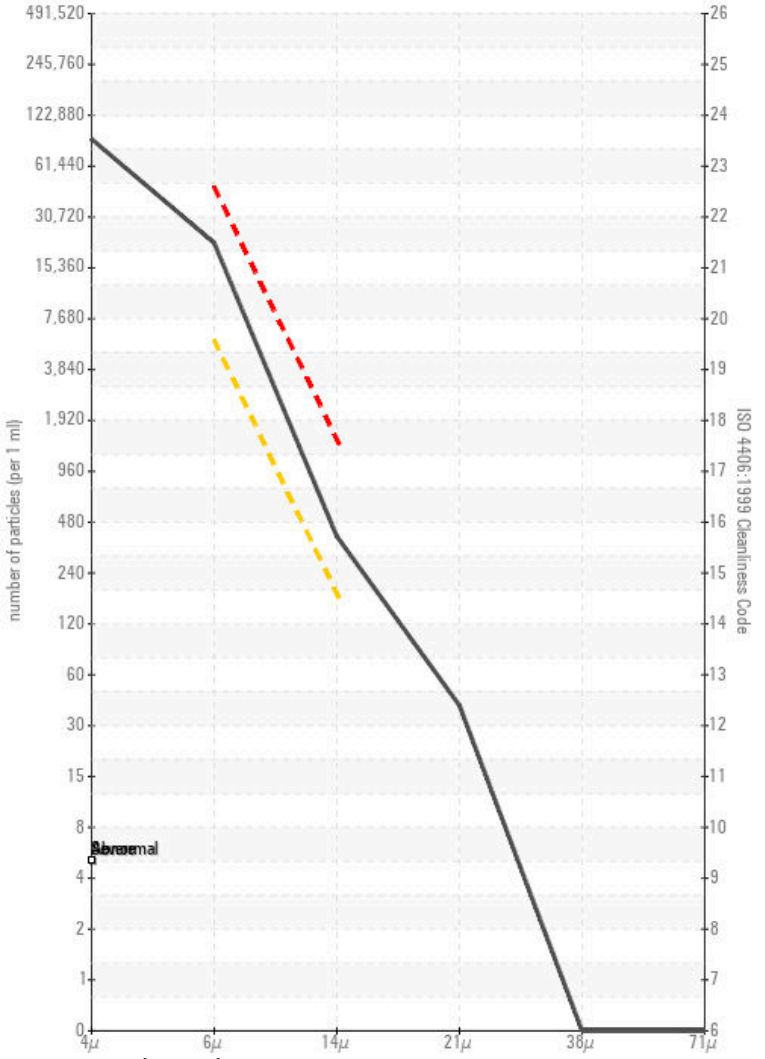
### Ferrous Alloys



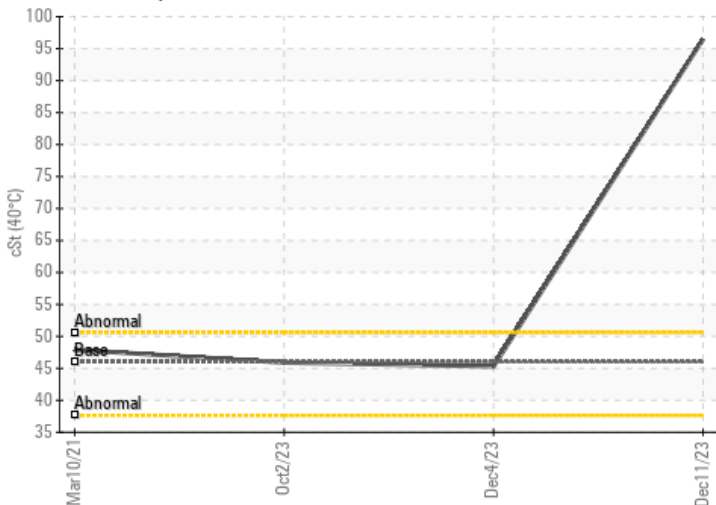
### Non-ferrous Metals



### Particle Count



### Viscosity @ 40°C



### Acid Number

