



# CONSTRUCTION EQUIPMENT

## SWO-068028 VOLVO A45G 352915 - HYDRAULIC SYSTEM



**Sample No:** VCP447553  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-068028



### SAMPLE INFORMATION

Sample Number	<b>VCP447553</b>	VCP413522	VCP414247	VCP397697
Sample Date	<b>06 Dec 2023</b>	15 Aug 2023	26 May 2023	19 Jan 2023
Machine Hours	<b>2854</b>	2344	1912	1420
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	43.2	43.3	43.5
Acid Number (AN)	mg KOH/g	<b>0.30</b>	0.35	0.38	0.40



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>967</b>	1318	2722	3576
Particles >6µm		<b>96</b>	280	699	1178
Particles >14µm		<b>11</b>	19	40	132
ISO 4406:1999 (c)		<b>17/14/11</b>	18/15/11	19/17/12	19/17/14
Silicon	ppm	<b>7</b>	7	7	6
Sodium	ppm	<b>2</b>	<1	0	0
Potassium	ppm	<b>0</b>	0	1	<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>0</b>	7	6	5
Copper	ppm	<b>4</b>	3	3	2
Lead	ppm	<b>1</b>	2	2	2
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	1	0	0
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>56</b>	58	59	61
Magnesium	ppm	<b>0</b>	0	1	<1
Zinc	ppm	<b>432</b>	415	441	456
Phosphorus	ppm	<b>324</b>	334	331	334
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	0	0

**Depot:** SAIBIR  
**Unique No:** 10780268  
**Signed:** Don Baldrige  
**Report Date:** 13 Dec 2023

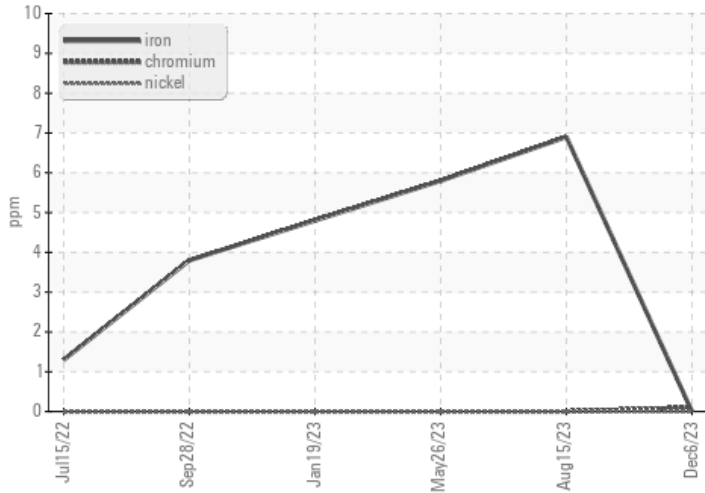


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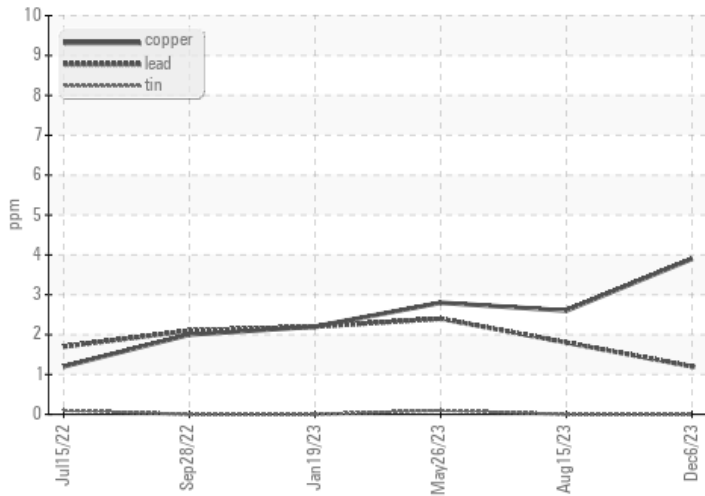


## VOLVO GRAPHS

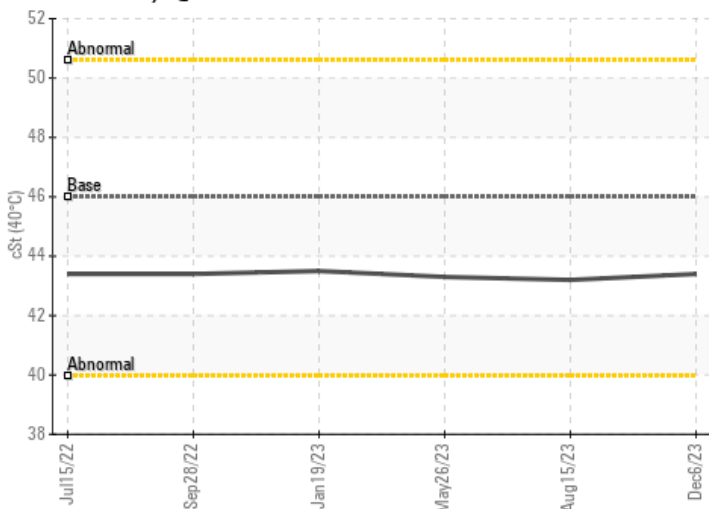
### Ferrous Alloys



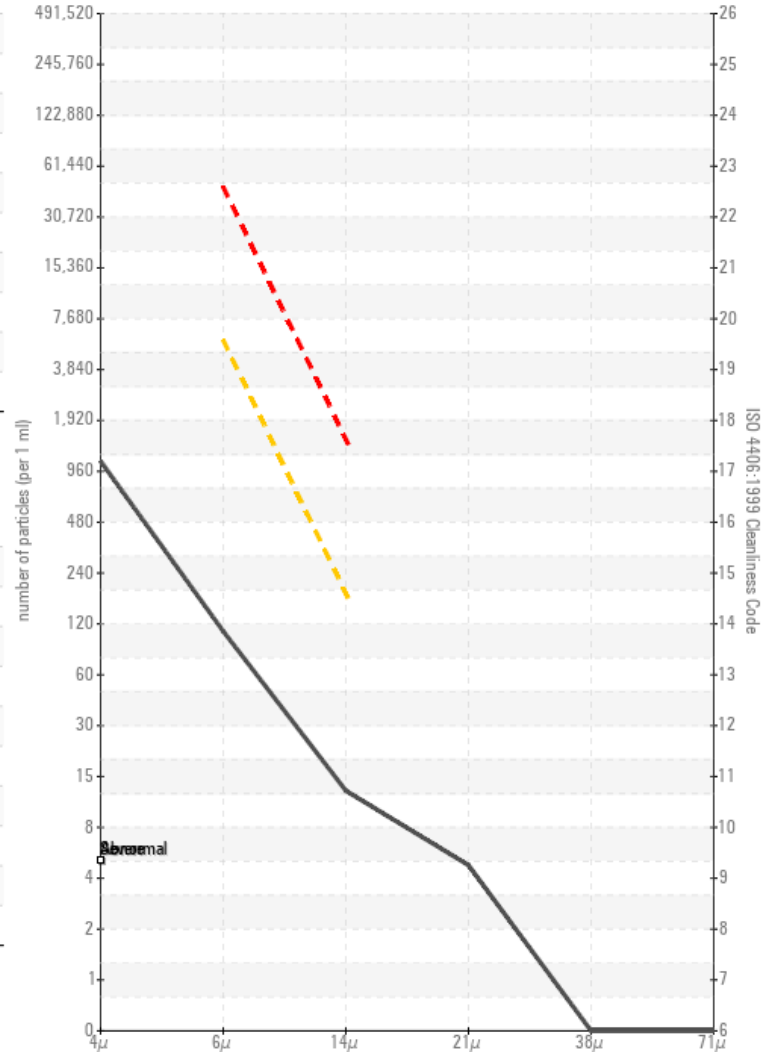
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

