



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352565 - HYDRAULIC SYSTEM



**Sample No:** VCP432349  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP432349</b>	VCP431983	VCP417532	VCP412728
Sample Date	<b>06 Dec 2023</b>	03 Oct 2023	31 Jul 2023	31 May 2023
Machine Hours	<b>8568</b>	8080	7625	7148
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.0</b>	44.4	45.0	44.5
Acid Number (AN)	mg KOH/g	<b>0.40</b>	0.37	0.37	0.33

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>2083</b>	2243	2378	4192
Particles >6µm		<b>352</b>	302	267	1083
Particles >14µm		<b>16</b>	20	10	32
ISO 4406:1999 (c)		<b>18/16/11</b>	18/15/11	18/15/10	19/17/12
Silicon	ppm	<b>4</b>	6	5	4
Sodium	ppm	<b>&lt;1</b>	<1	3	1
Potassium	ppm	<b>0</b>	<1	<1	<1

**Diagnosis**  
 Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>4</b>	8	7	6
Copper	ppm	<b>4</b>	2	2	1
Lead	ppm	<b>0</b>	2	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	2	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	1	1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>181</b>	129	123	126
Magnesium	ppm	<b>13</b>	13	12	14
Zinc	ppm	<b>502</b>	481	449	471
Phosphorus	ppm	<b>416</b>	354	347	359
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>2</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10783228  
**Signed:** Don Baldrige  
**Report Date:** 17 Dec 2023

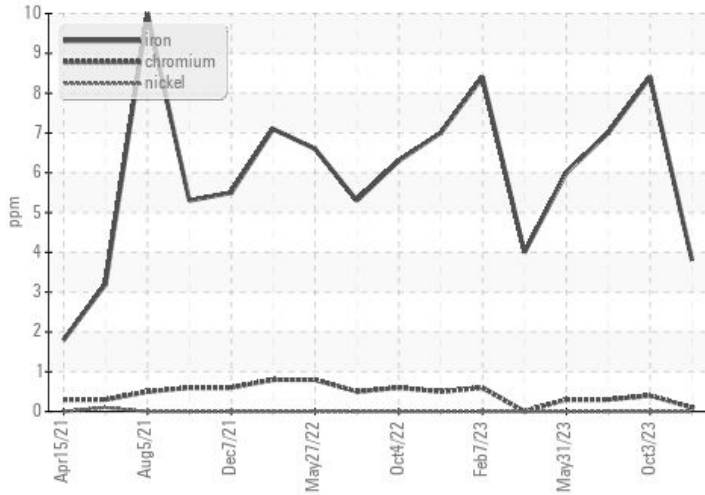


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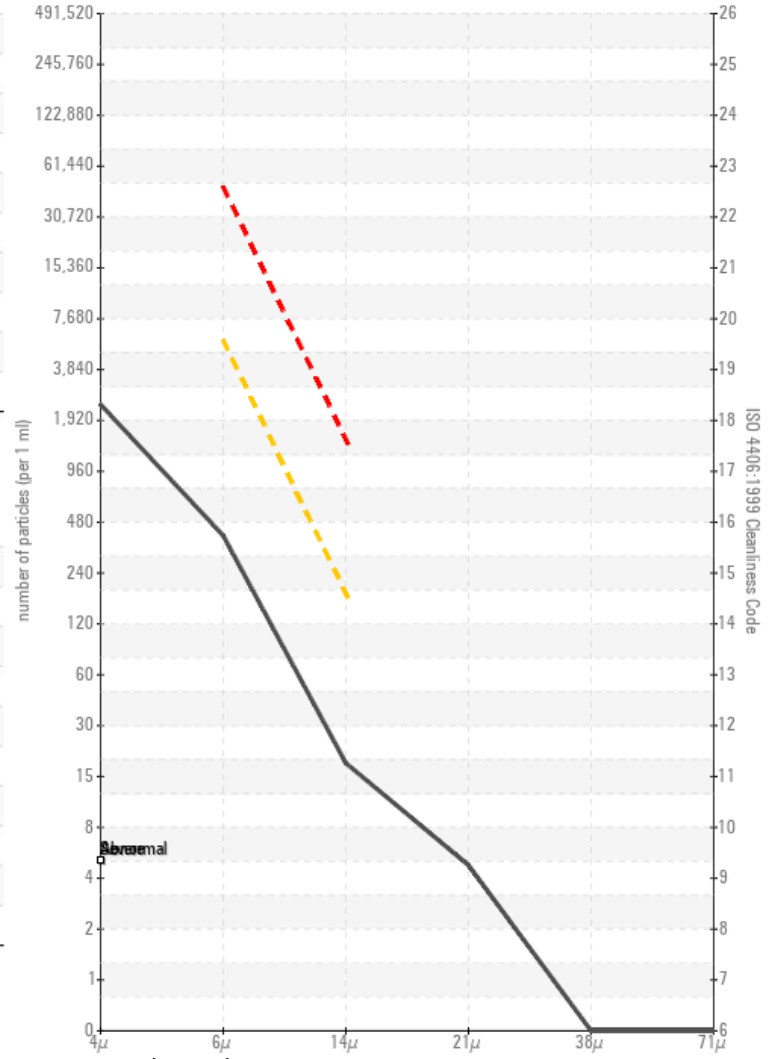


## VOLVO GRAPHS

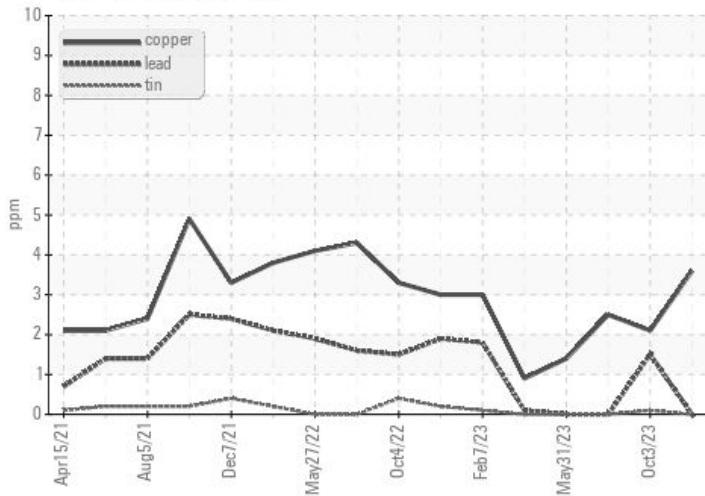
Ferrous Alloys



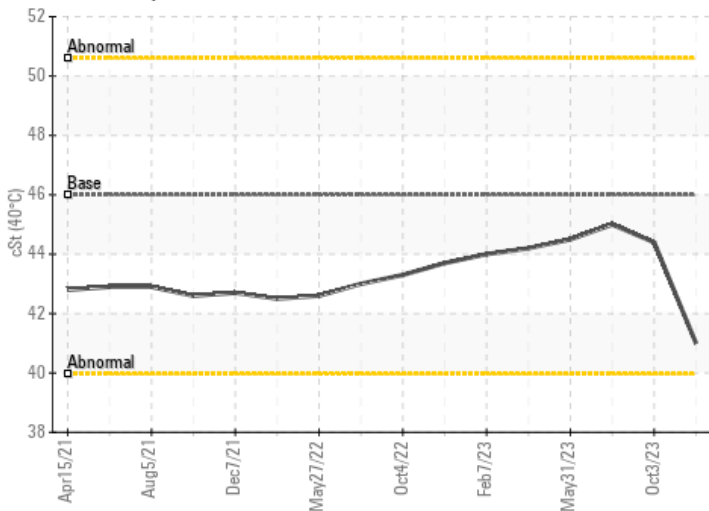
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

