



# CONSTRUCTION EQUIPMENT

## SWO-067073 VOLVO A45G 352702 - HYDRAULIC SYSTEM



**Sample No:** VCP428898  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-067073



### SAMPLE INFORMATION

Sample Number	<b>VCP428898</b>	VCP427491	VCP408680	VCP393934
Sample Date	<b>07 Nov 2023</b>	15 Aug 2023	18 May 2023	20 Dec 2022
Machine Hours	<b>3950</b>	3389	2923	2406
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.0</b>	44.0	44.1	44.0
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.37	0.37	0.39



### CONTAMINATION

Particles >4µm		<b>594</b>	899	1041	2014
Particles >6µm		<b>137</b>	253	294	687
Particles >14µm		<b>12</b>	16	25	62
ISO 4406:1999 (c)		<b>16/14/11</b>	17/15/11	17/15/12	18/17/13
Silicon	ppm	<b>6</b>	5	6	5
Sodium	ppm	<b>1</b>	<1	0	<1
Potassium	ppm	<b>1</b>	0	<1	0

### 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>9</b>	7	7	5
Copper	ppm	<b>2</b>	2	2	1
Lead	ppm	<b>3</b>	3	3	2
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	0	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</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>105</b>	126	133	121
Magnesium	ppm	<b>0</b>	0	2	<1
Zinc	ppm	<b>444</b>	416	487	424
Phosphorus	ppm	<b>313</b>	326	346	328
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10739260  
**Signed:** Don Baldrige  
**Report Date:** 15 Nov 2023

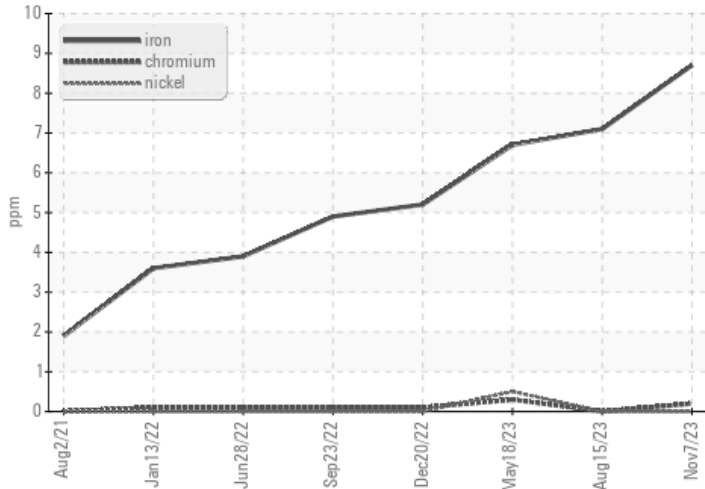


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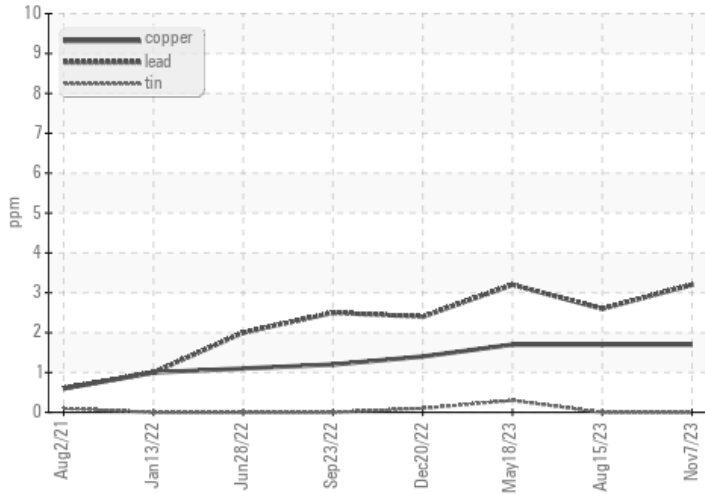


## VOLVO GRAPHS

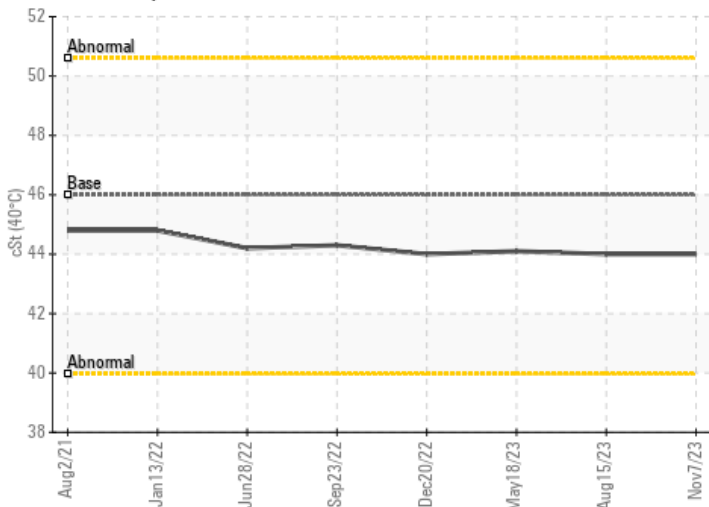
### Ferrous Alloys



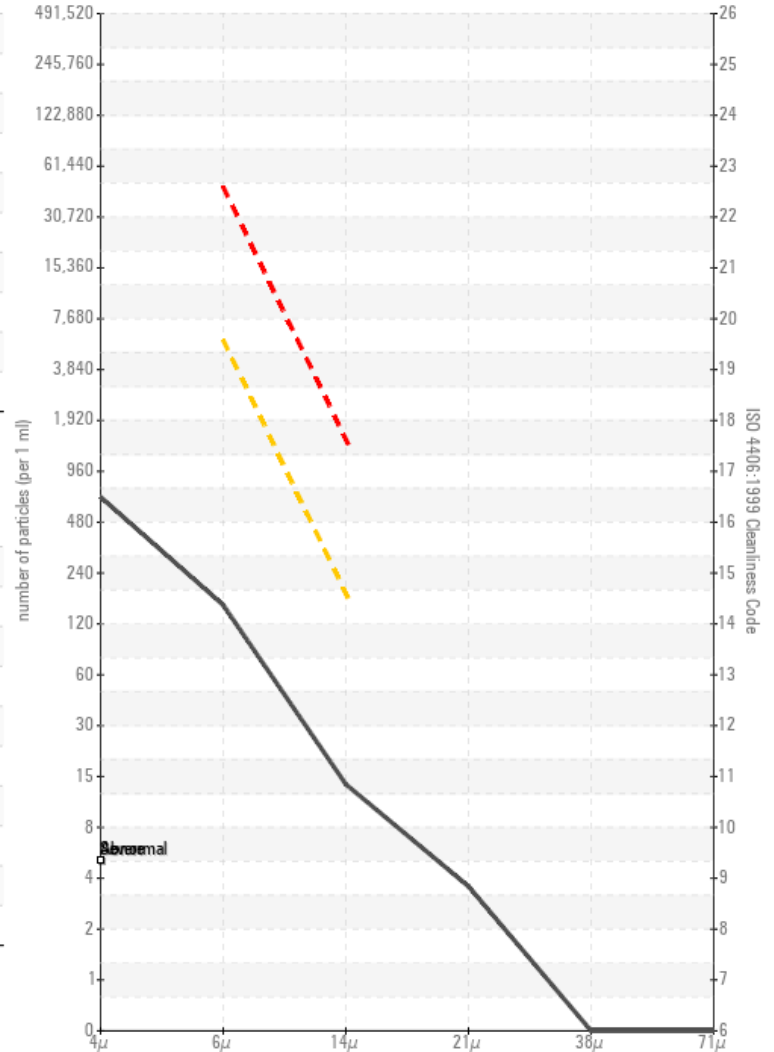
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

