



# CONSTRUCTION EQUIPMENT

## SWO-064854 VOLVO A45G 352702 - HYDRAULIC SYSTEM



**Sample No:** VCP427491  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-064854



### SAMPLE INFORMATION

Sample Number	<b>VCP427491</b>	VCP408680	VCP393934	VCP391130
Sample Date	<b>15 Aug 2023</b>	18 May 2023	20 Dec 2022	23 Sep 2022
Machine Hours	<b>3389</b>	2923	2406	1971
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

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.0</b>	44.1	44.0	44.3
Acid Number (AN)	mg KOH/g	<b>0.37</b>	0.37	0.39	0.35



### CONTAMINATION

Particles >4µm		<b>899</b>	1041	2014	1934
Particles >6µm		<b>253</b>	294	687	283
Particles >14µm		<b>16</b>	25	62	38
ISO 4406:1999 (c)		<b>17/15/11</b>	17/15/12	18/17/13	18/15/12
Silicon	ppm	<b>5</b>	6	5	4
Sodium	ppm	<b>&lt;1</b>	0	<1	<1
Potassium	ppm	<b>0</b>	<1	0	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>7</b>	7	5	5
Copper	ppm	<b>2</b>	2	1	1
Lead	ppm	<b>3</b>	3	2	2
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	0	0
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>126</b>	133	121	124
Magnesium	ppm	<b>0</b>	2	<1	0
Zinc	ppm	<b>416</b>	487	424	441
Phosphorus	ppm	<b>326</b>	346	328	339
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10617360  
**Signed:** Don Baldrige  
**Report Date:** 24 Aug 2023

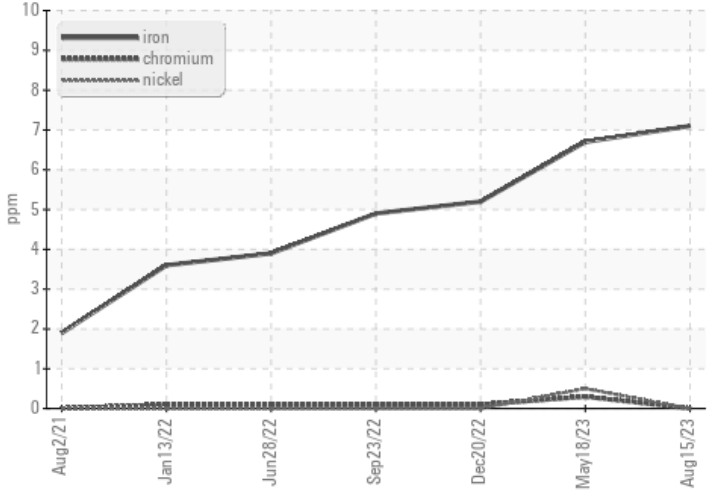


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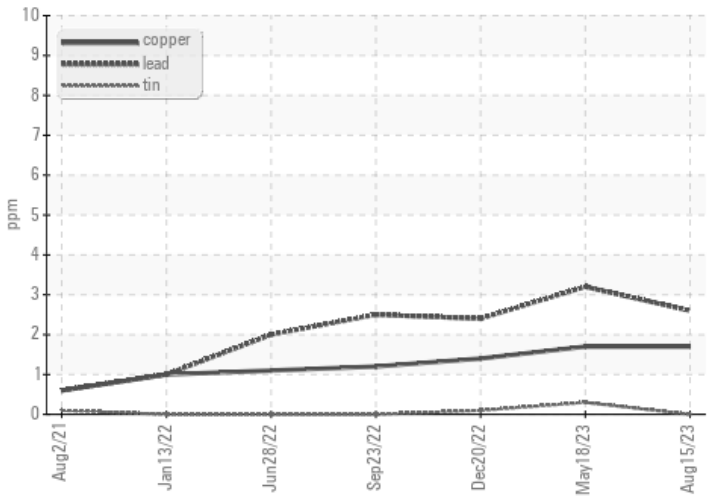


## GRAPHS

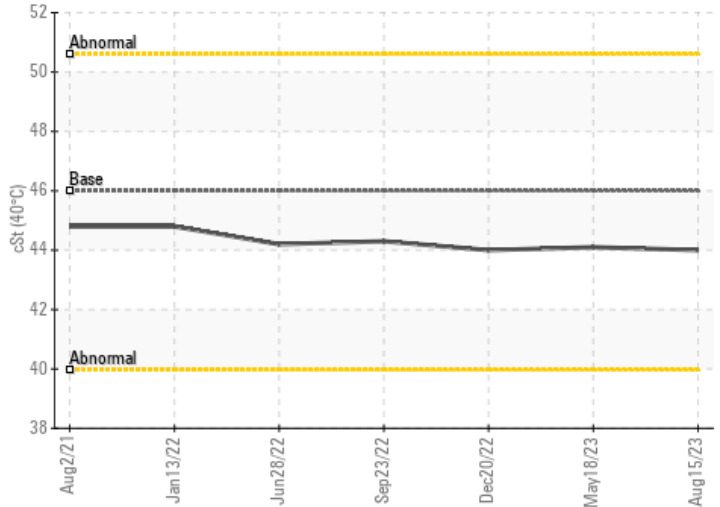
Ferrous Alloys



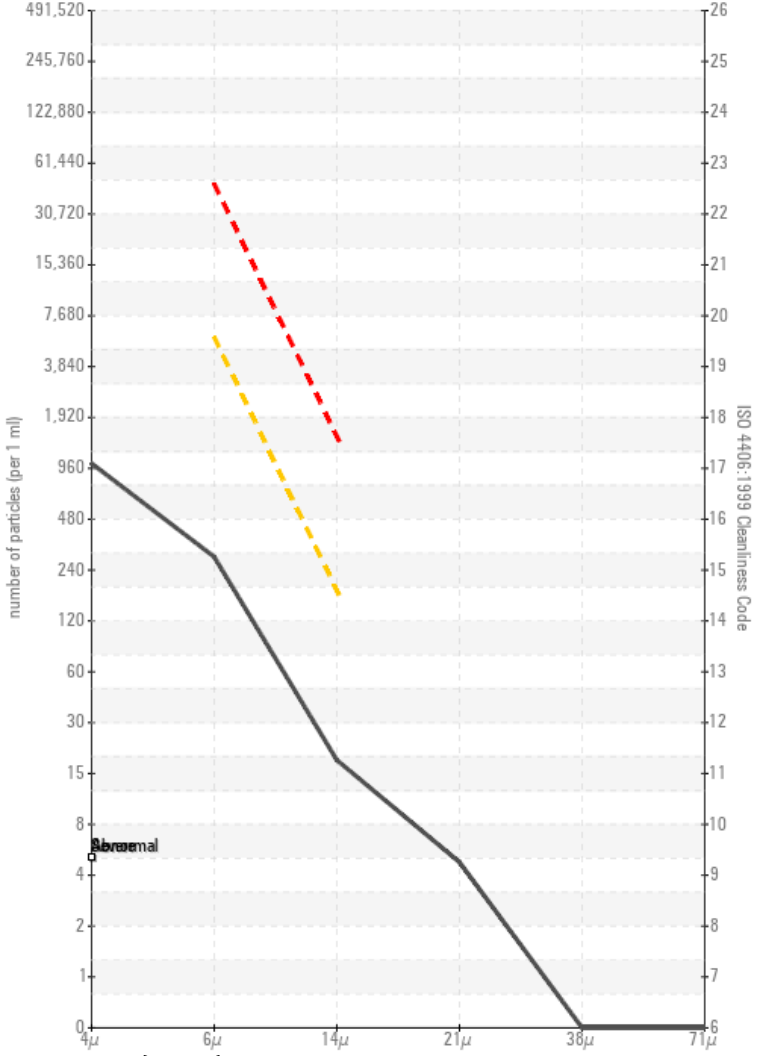
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

