



# CONSTRUCTION EQUIPMENT

## SWO-065663 VOLVO A45G 353090 - HYDRAULIC SYSTEM



**Sample No:** VCP431097  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-065663



### SAMPLE INFORMATION

Sample Number	<b>VCP431097</b>	VCP407521	VCP395385	VCP388414
Sample Date	<b>19 Sep 2023</b>	09 Jun 2023	23 Feb 2023	17 Oct 2022
Machine Hours	<b>2023</b>	1481	1006	502
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>43.0</b>	43.0	43.1	43.3
Acid Number (AN)	mg KOH/g	<b>0.41</b>	0.43	0.41	0.43



### CONTAMINATION

Particles >4µm		<b>32702</b>	3549	2108	1534
Particles >6µm		<b>3135</b>	614	352	167
Particles >14µm		<b>33</b>	42	20	17
ISO 4406:1999 (c)		<b>22/19/12</b>	19/16/13	18/16/11	18/15/11
Silicon	ppm	<b>7</b>	7	6	7
Sodium	ppm	<b>0</b>	0	<1	0
Potassium	ppm	<b>1</b>	<1	0	<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>7</b>	4	2	3
Copper	ppm	<b>2</b>	2	<1	1
Lead	ppm	<b>2</b>	2	0	1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	0	<1	0
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>&lt;1</b>	0	0	0
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>59</b>	60	53	60
Magnesium	ppm	<b>&lt;1</b>	<1	0	<1
Zinc	ppm	<b>468</b>	455	353	470
Phosphorus	ppm	<b>341</b>	332	295	347
Barium	ppm	<b>0</b>	0	0	1
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10660961  
**Signed:** Don Baldrige  
**Report Date:** 26 Sep 2023

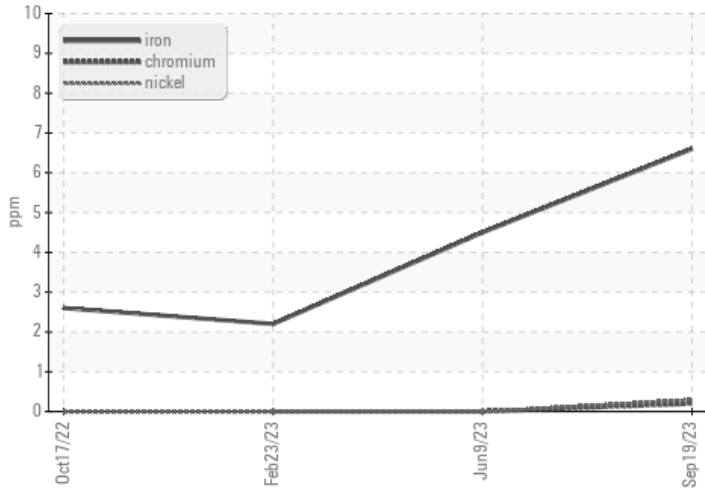


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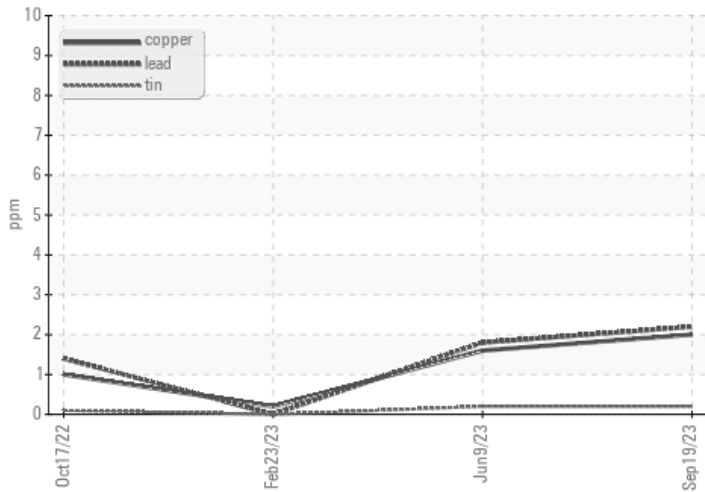


## GRAPHS

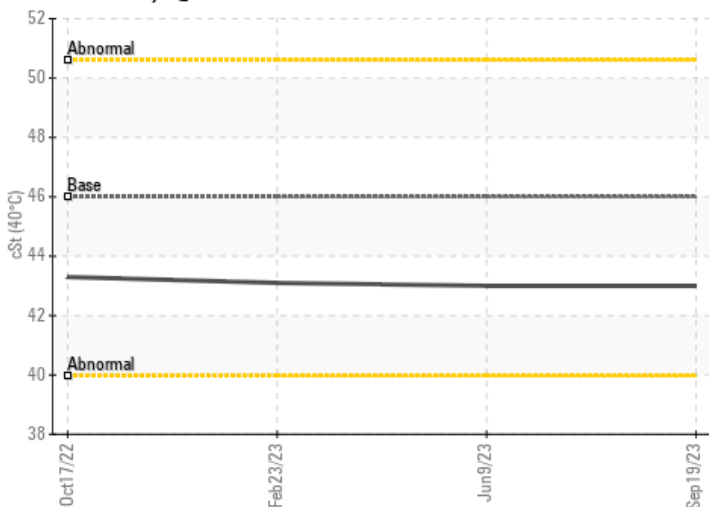
### Ferrous Alloys



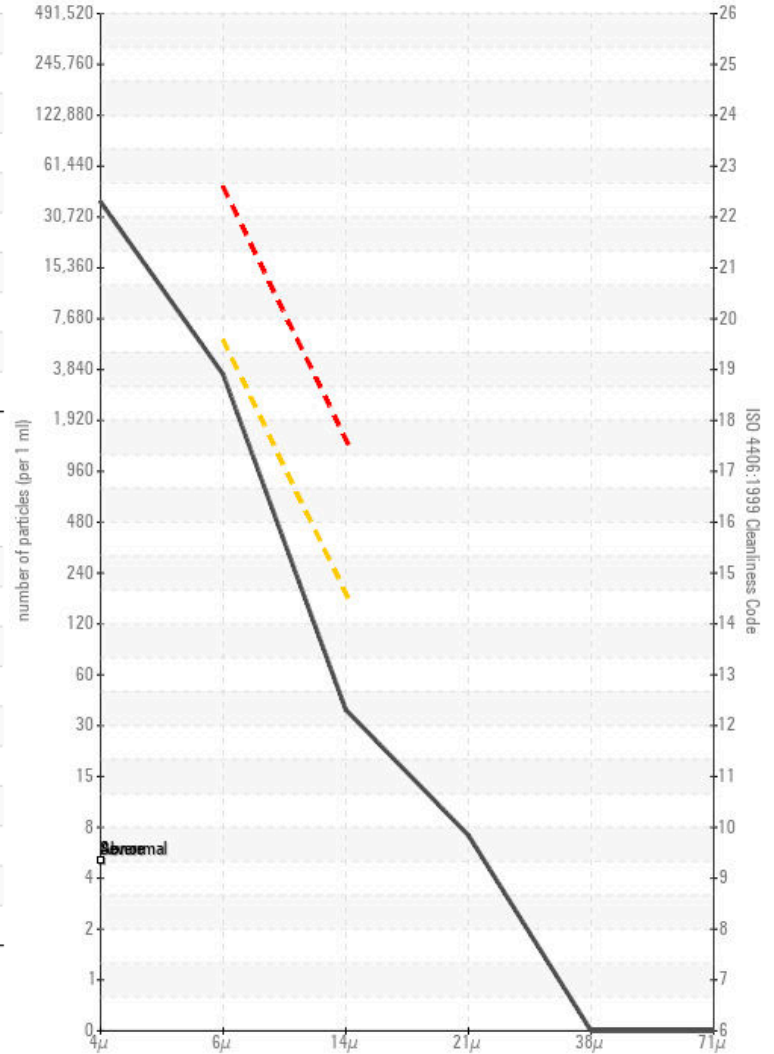
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

