



# CONSTRUCTION EQUIPMENT

## SWO-064939 VOLVO A45G 352973 - HYDRAULIC SYSTEM



**Sample No:** VCP426209  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-064939



### SAMPLE INFORMATION

Sample Number	<b>VCP426209</b>	VCP405904	VCP405255	VCP393655
Sample Date	<b>24 Aug 2023</b>	06 Jun 2023	21 Mar 2023	20 Dec 2022
Machine Hours	<b>3044</b>	2472	2001	1655
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	42.9	43.4	43.5
Acid Number (AN)	mg KOH/g	<b>0.36</b>	0.39	0.40	0.43



### CONTAMINATION

Particles >4µm		<b>1813</b>	1399	3907	2473
Particles >6µm		<b>500</b>	389	1300	591
Particles >14µm		<b>23</b>	24	111	46
ISO 4406:1999 (c)		<b>18/16/12</b>	18/16/12	19/17/14	18/16/13
Silicon	ppm	<b>6</b>	6	6	5
Sodium	ppm	<b>&lt;1</b>	0	<1	0
Potassium	ppm	<b>1</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>6</b>	5	3	3
Copper	ppm	<b>2</b>	2	<1	1
Lead	ppm	<b>2</b>	2	<1	1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>3</b>	0	<1	<1
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>0</b>	0	0	<1
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>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>75</b>	69	64	63
Magnesium	ppm	<b>2</b>	1	0	<1
Zinc	ppm	<b>459</b>	453	443	429
Phosphorus	ppm	<b>356</b>	331	340	334
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10630293  
**Signed:** Don Baldrige  
**Report Date:** 05 Sep 2023

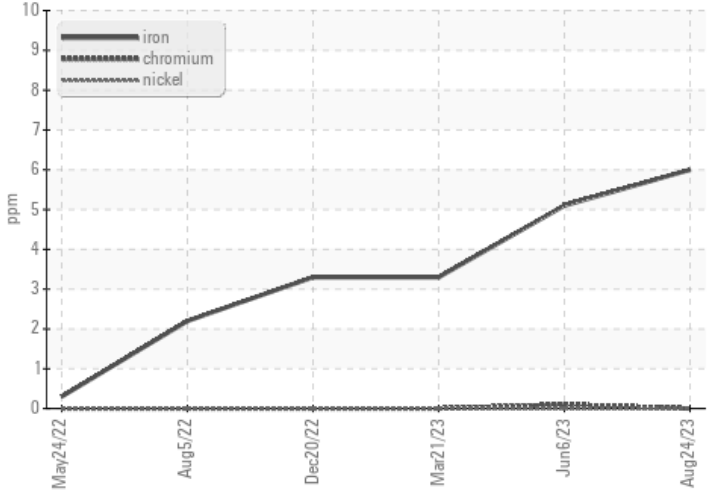


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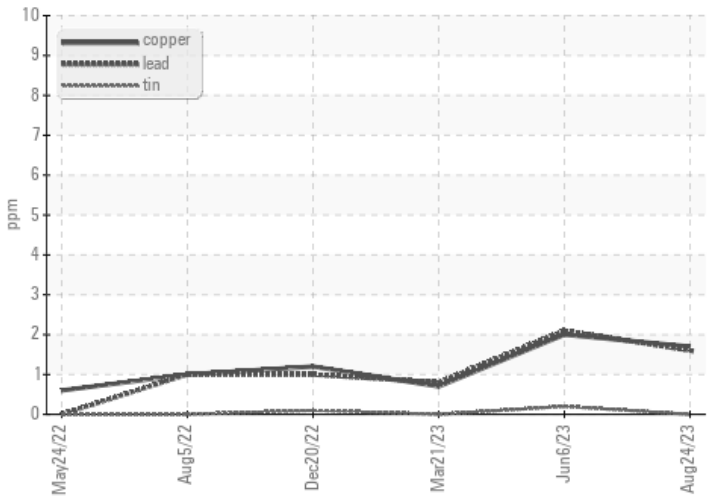


## GRAPHS

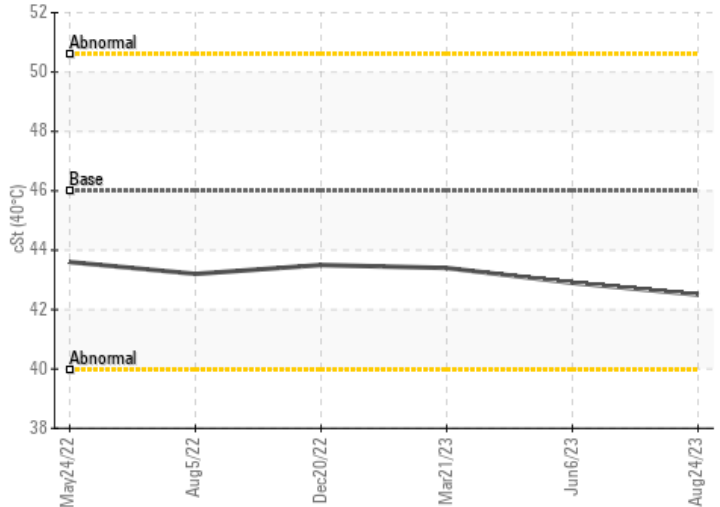
Ferrous Alloys



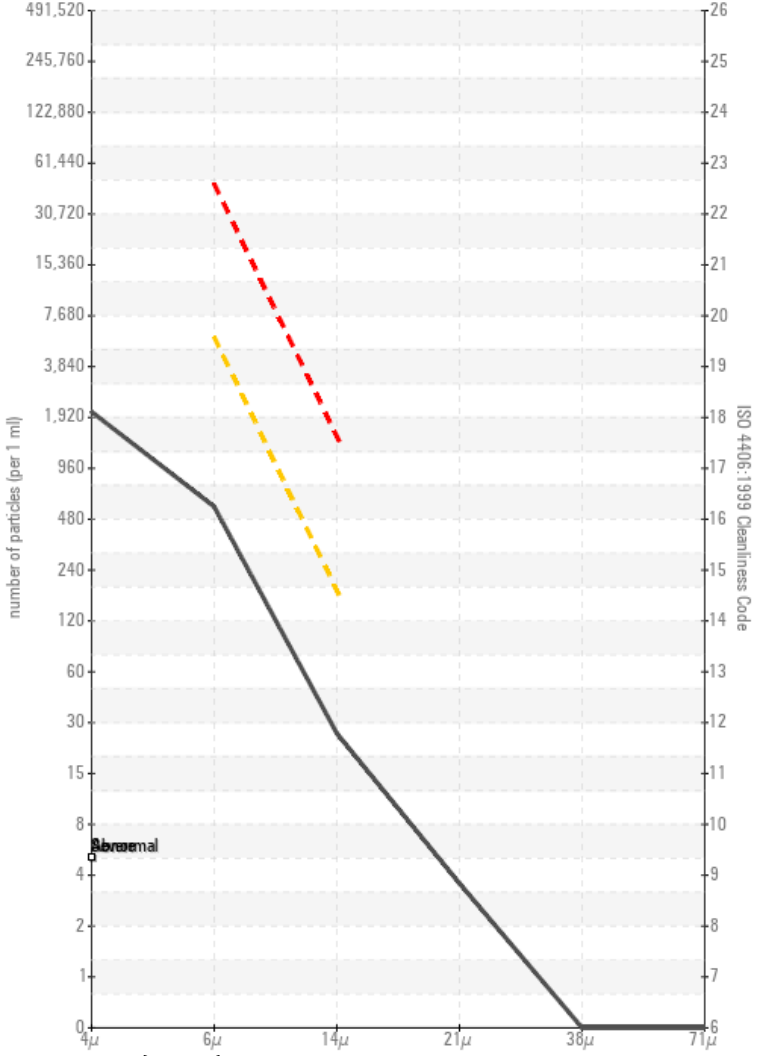
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

