



# CONSTRUCTION EQUIPMENT

## SWO-071566 VOLVO A45G 352769 - HYDRAULIC SYSTEM



**Sample No:** VCP453706  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-071566



### SAMPLE INFORMATION

Sample Number	<b>VCP453706</b>	VCP441249	VCP433852	VCP416526
Sample Date	<b>01 May 2024</b>	05 Jan 2024	20 Sep 2023	21 Jun 2023
Machine Hours	<b>5450</b>	4942	4400	3875
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.9</b>	44.7	44.4	44.6
Acid Number (AN)	mg KOH/g	<b>0.51</b>	0.47	0.46	0.34



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>2912</b>	6974	766	1001
Particles >6µm		<b>588</b>	2405	221	116
Particles >14µm		<b>38</b>	146	12	9
ISO 4406:1999 (c)		<b>19/16/12</b>	20/18/14	17/15/11	17/14/10
Silicon	ppm	<b>4</b>	4	6	7
Sodium	ppm	<b>0</b>	<1	0	1
Potassium	ppm	<b>0</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>2</b>	2	4	8
Copper	ppm	<b>1</b>	3	6	2
Lead	ppm	<b>&lt;1</b>	0	3	2
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>0</b>	0	0	1
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	<1	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	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>107</b>	85	55	55
Magnesium	ppm	<b>60</b>	59	6	0
Zinc	ppm	<b>489</b>	489	452	470
Phosphorus	ppm	<b>396</b>	396	339	354
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 11019888  
**Signed:** Don Baldrige  
**Report Date:** 14 May 2024

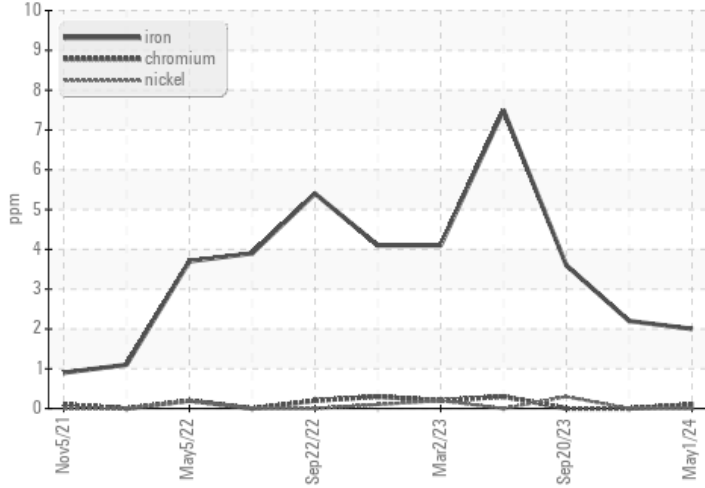


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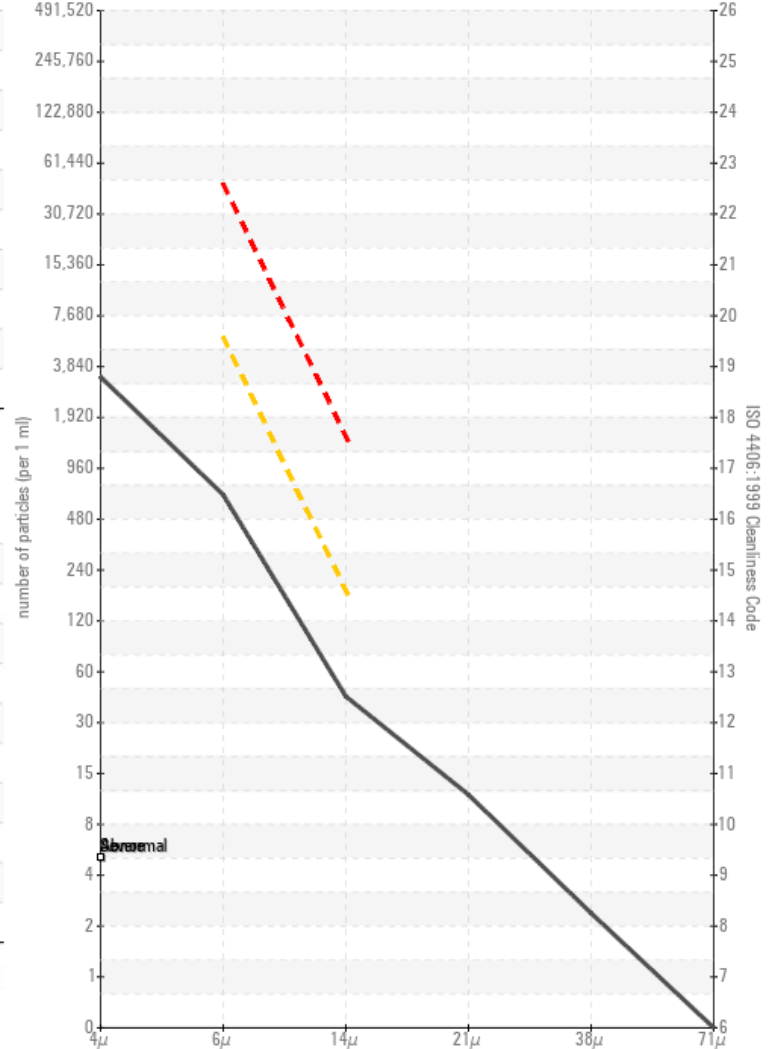


## VOLVO GRAPHS

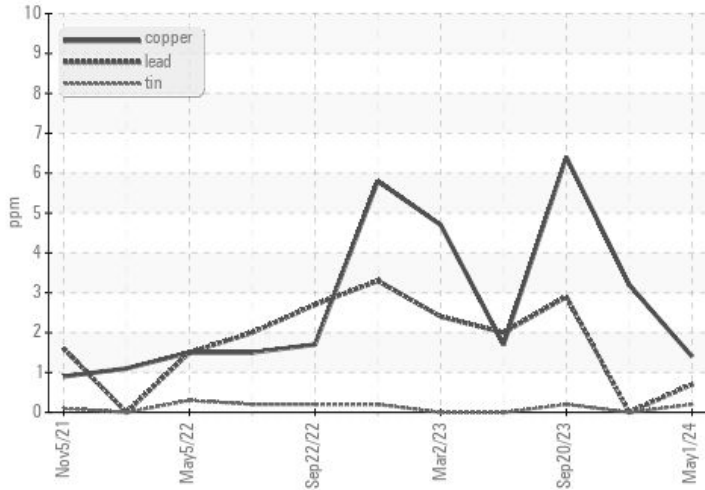
### Ferrous Alloys



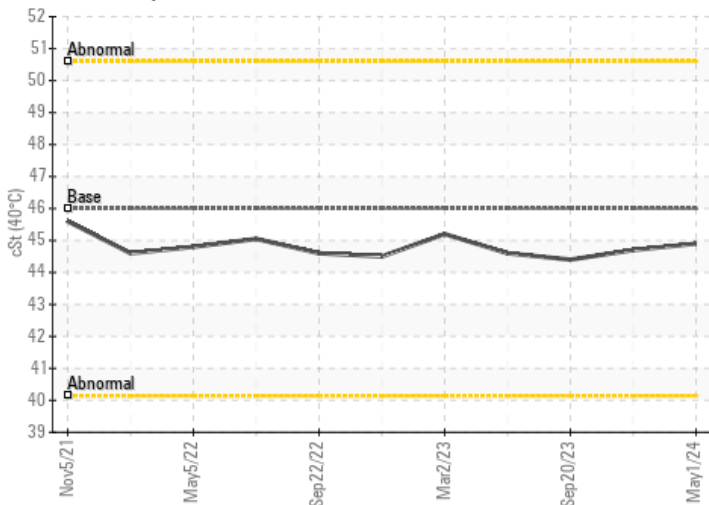
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

