



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352973 - HYDRAULIC SYSTEM



**Sample No:** VCP454875  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP454875</b>	VCP444468	VCP433866	VCP426209
Sample Date	<b>25 Jun 2024</b>	07 Mar 2024	08 Nov 2023	24 Aug 2023
Machine Hours	<b>4536</b>	4034	3521	3044
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**SAIIA CONSTRUCTION LLC**  
 4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207  
 Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.5</b>	42.9	41.5	42.5
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.36	0.35	0.36



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>2960</b>	2949	2412	1813
Particles >6µm		<b>816</b>	197	427	500
Particles >14µm		<b>21</b>	8	19	23
ISO 4406:1999 (c)		<b>19/17/12</b>	19/15/10	18/16/11	18/16/12
Silicon	ppm	<b>5</b>	8	7	6
Sodium	ppm	<b>2</b>	0	<1	<1
Potassium	ppm	<b>&lt;1</b>	2	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>5</b>	7	7	6
Copper	ppm	<b>2</b>	3	3	2
Lead	ppm	<b>&lt;1</b>	3	2	2
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>1</b>	2	1	3
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>1</b>	0	0	0
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	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>92</b>	77	57	75
Magnesium	ppm	<b>9</b>	2	0	2
Zinc	ppm	<b>435</b>	420	424	459
Phosphorus	ppm	<b>339</b>	317	320	356
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 1113599  
**Signed:** Don Baldrige  
**Report Date:** 09 Jul 2024

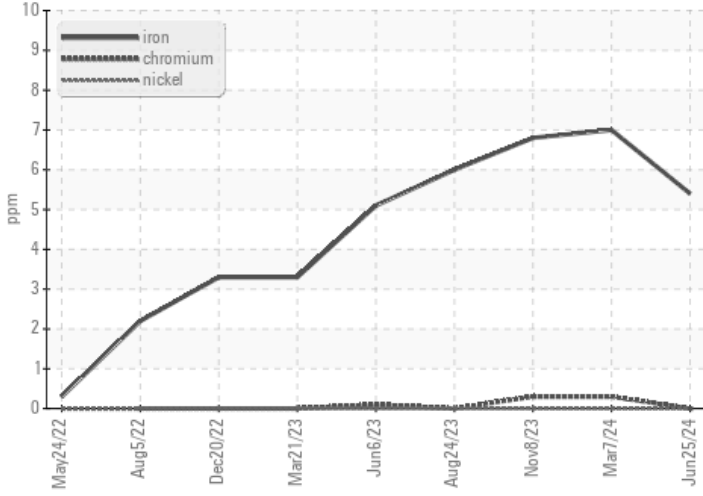


# CONSTRUCTION EQUIPMENT

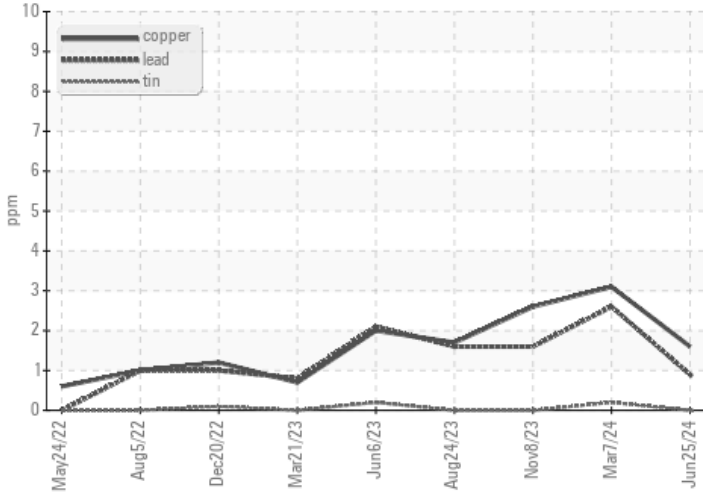


## GRAPHS

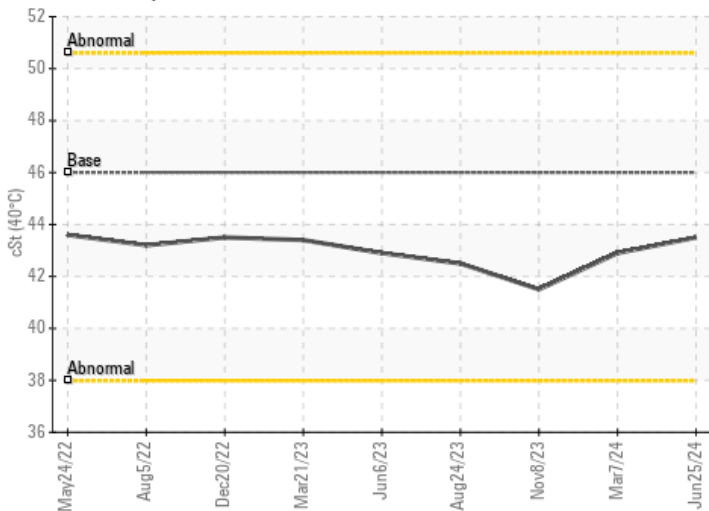
### Ferrous Alloys



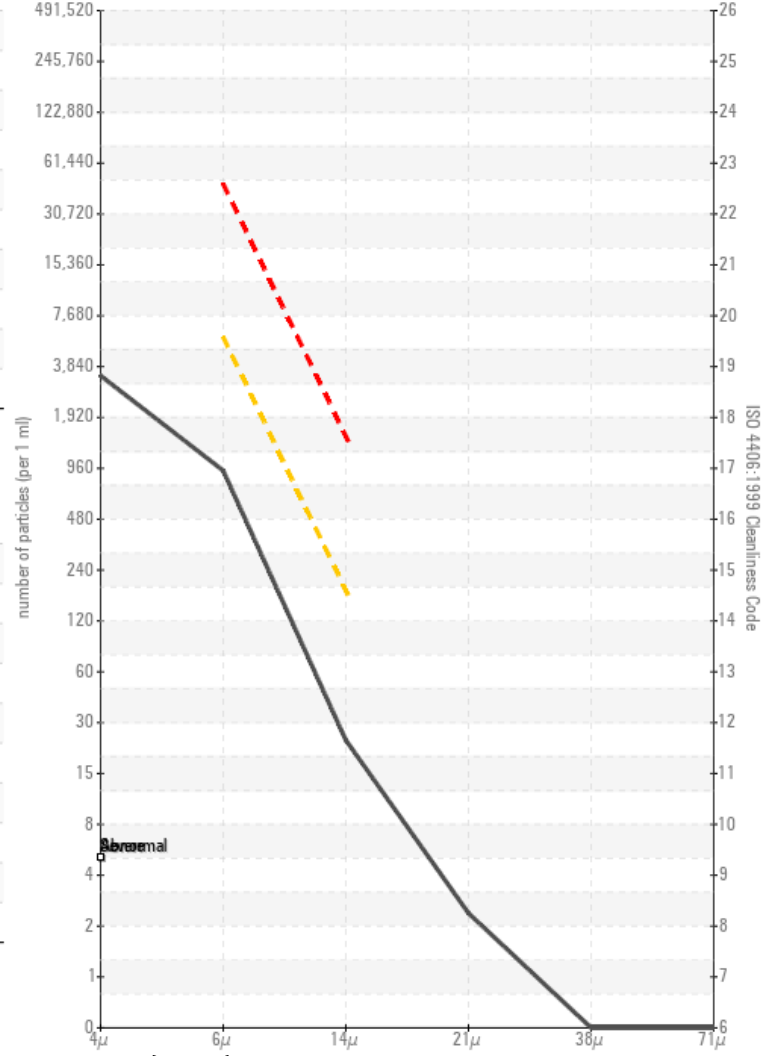
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

