



# CONSTRUCTION EQUIPMENT

## SWO-064007 VOLVO A45G 352799 - HYDRAULIC SYSTEM



**Sample No:** VCP417099  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-064007



### SAMPLE INFORMATION

Sample Number	<b>VCP417099</b>	VCP405913	VCP369035	VCP366186
Sample Date	<b>12 Jul 2023</b>	29 Mar 2023	16 Nov 2022	31 Aug 2022
Machine Hours	<b>3946</b>	3445	2976	2451
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</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>44.5</b>	45.0	45.1	45.0
Acid Number (AN)	mg KOH/g	<b>0.37</b>	0.50	0.43	0.45



### CONTAMINATION

Particles >4µm		<b>721</b>	3783	3964	7777
Particles >6µm		<b>110</b>	1216	1055	2328
Particles >14µm		<b>8</b>	83	69	115
ISO 4406:1999 (c)		<b>17/14/10</b>	19/17/14	19/17/13	20/18/14
Silicon	ppm	<b>7</b>	5	4	4
Sodium	ppm	<b>0</b>	<1	1	2
Potassium	ppm	<b>&lt;1</b>	1	0	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>9</b>	<1	1	<1
Copper	ppm	<b>3</b>	9	13	13
Lead	ppm	<b>3</b>	2	1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>1</b>	0	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>&lt;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>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>68</b>	52	52	52
Magnesium	ppm	<b>2</b>	11	6	4
Zinc	ppm	<b>457</b>	451	426	423
Phosphorus	ppm	<b>345</b>	346	326	352
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10574255  
**Signed:** Don Baldrige  
**Report Date:** 28 Jul 2023

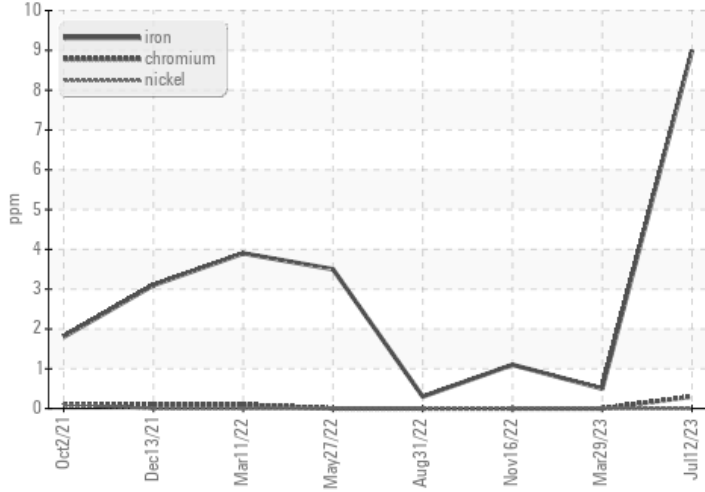


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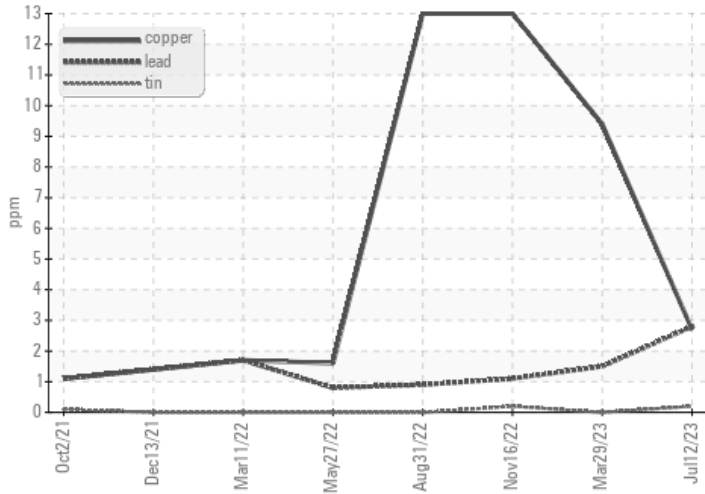


## VOLVO GRAPHS

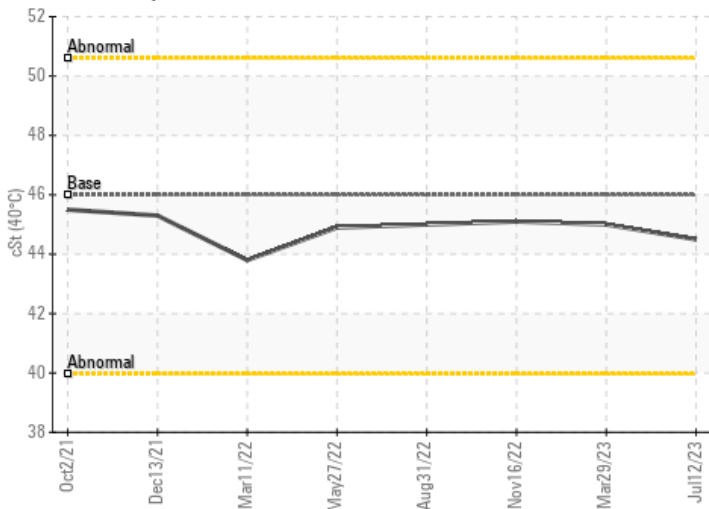
Ferrous Alloys



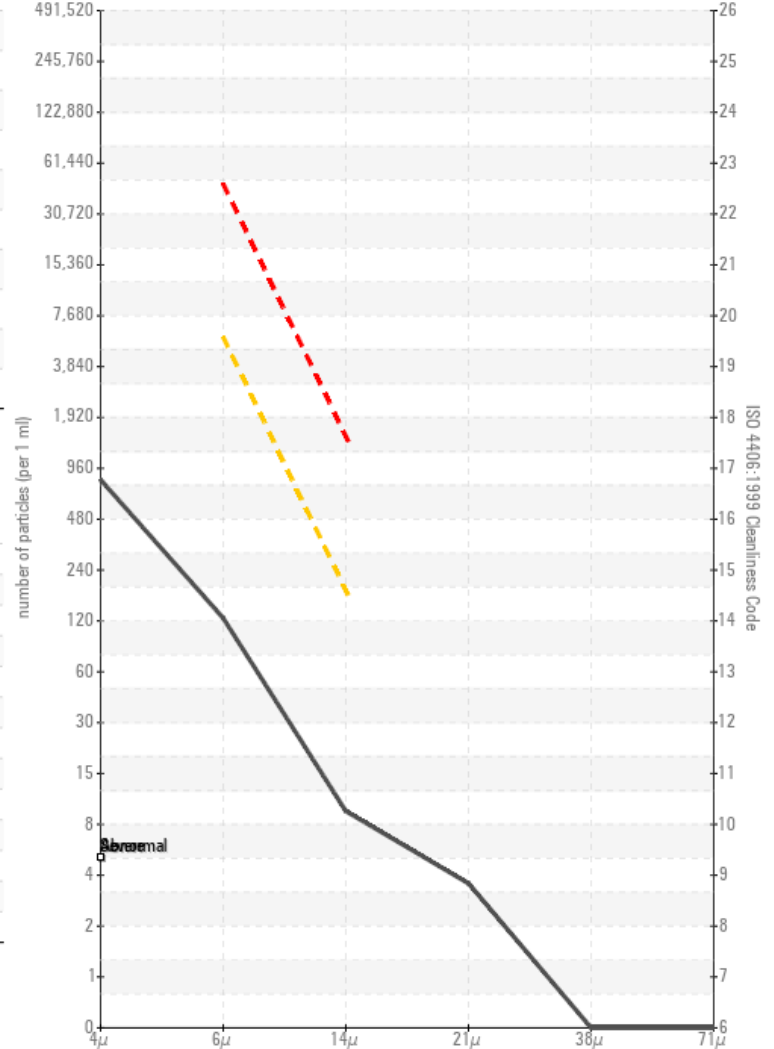
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

