



# CONSTRUCTION EQUIPMENT

## SWO-064668 VOLVO A45G 352639 - HYDRAULIC SYSTEM



**Sample No:** VCP369322  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-064668



### SAMPLE INFORMATION

Sample Number	<b>VCP369322</b>	VCP410479	VCP395235	VCP368408
Sample Date	<b>07 Aug 2023</b>	12 May 2023	17 Feb 2023	15 Nov 2022
Machine Hours	<b>4377</b>	3923	3418	2988
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

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.2</b>	42.3	42.3	42.6
Acid Number (AN)	mg KOH/g	<b>0.36</b>	0.38	0.35	0.38



### CONTAMINATION

Particles >4µm		<b>1992</b>	193	1912	3354
Particles >6µm		<b>424</b>	84	689	838
Particles >14µm		<b>27</b>	14	63	50
ISO 4406:1999 (c)		<b>18/16/12</b>	15/14/11	18/17/13	19/17/13
Silicon	ppm	<b>4</b>	6	5	5
Sodium	ppm	<b>2</b>	1	2	1
Potassium	ppm	<b>&lt;1</b>	0	0	0

**Diagnosis**  
 Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>4</b>	8	6	6
Copper	ppm	<b>2</b>	2	2	2
Lead	ppm	<b>1</b>	1	2	2
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	2	<1	<1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	0	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>108</b>	64	58	60
Magnesium	ppm	<b>11</b>	<1	<1	0
Zinc	ppm	<b>419</b>	425	388	428
Phosphorus	ppm	<b>334</b>	343	308	328
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10603280  
**Signed:** Don Baldrige  
**Report Date:** 15 Aug 2023

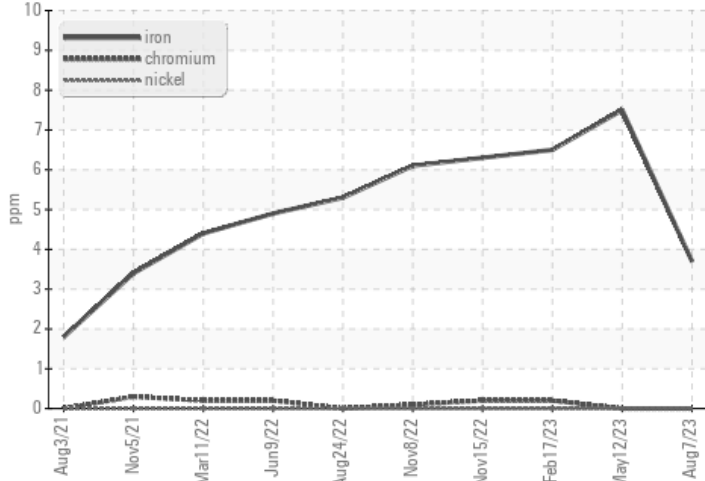


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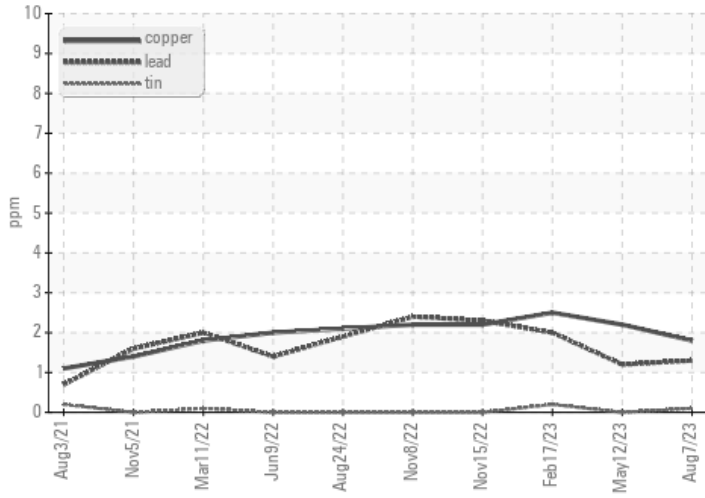


## GRAPHS

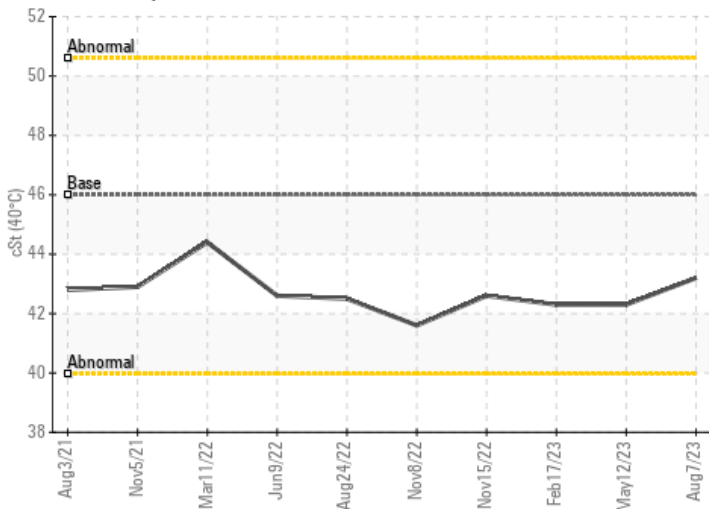
### Ferrous Alloys



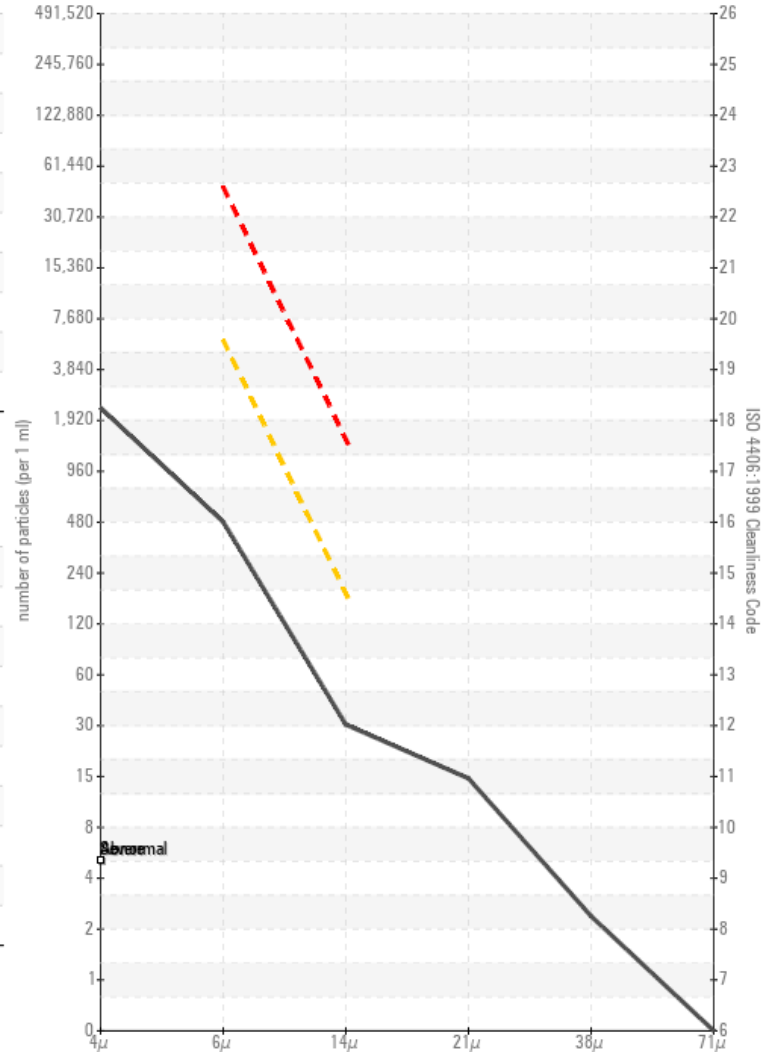
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

