



# CONSTRUCTION EQUIPMENT

## SWO-071763 VOLVO A60H 340039 - HYDRAULIC SYSTEM



**Sample No:** VCP450917  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-071763



### SAMPLE INFORMATION

Sample Number	<b>VCP450917</b>	VCP435399	VCP428978	VCP412591
Sample Date	<b>07 May 2024</b>	18 Jan 2024	27 Sep 2023	20 Jun 2023
Machine Hours	<b>9022</b>	8521	8052	7542
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	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>44.5</b>	44.8	44.2	44.5
Acid Number (AN)	mg KOH/g	<b>0.45</b>	0.53	0.38	0.36



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>1769</b>	204	1324	1035
Particles >6µm		<b>292</b>	42	273	303
Particles >14µm		<b>31</b>	5	30	27
ISO 4406:1999 (c)		<b>18/15/12</b>	15/13/10	18/15/12	17/15/12
Silicon	ppm	<b>3</b>	1	3	2
Sodium	ppm	<b>0</b>	0	<1	1
Potassium	ppm	<b>2</b>	1	<1	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>10</b>	7	12	8
Copper	ppm	<b>3</b>	2	3	2
Lead	ppm	<b>1</b>	<1	2	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>2</b>	3	<1	<1
Chromium	ppm	<b>1</b>	<1	2	1
Molybdenum	ppm	<b>1</b>	1	<1	<1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>102</b>	111	75	74
Magnesium	ppm	<b>23</b>	8	5	15
Zinc	ppm	<b>484</b>	452	451	421
Phosphorus	ppm	<b>393</b>	325	323	318
Barium	ppm	<b>0</b>	0	0	14
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 11021455  
**Signed:** Don Baldrige  
**Report Date:** 14 May 2024

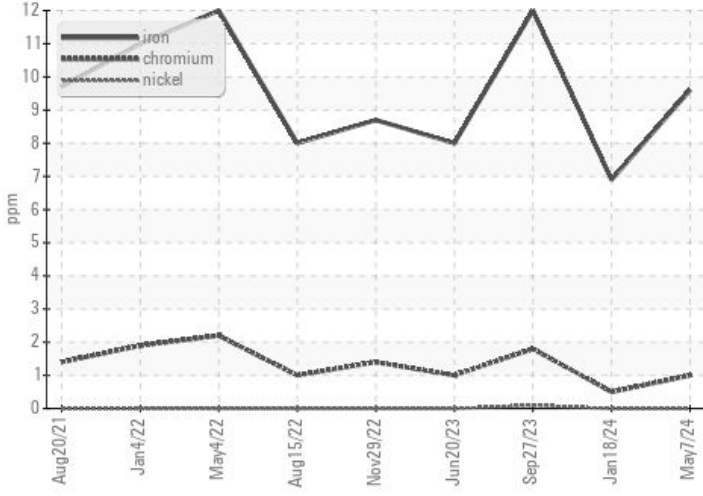


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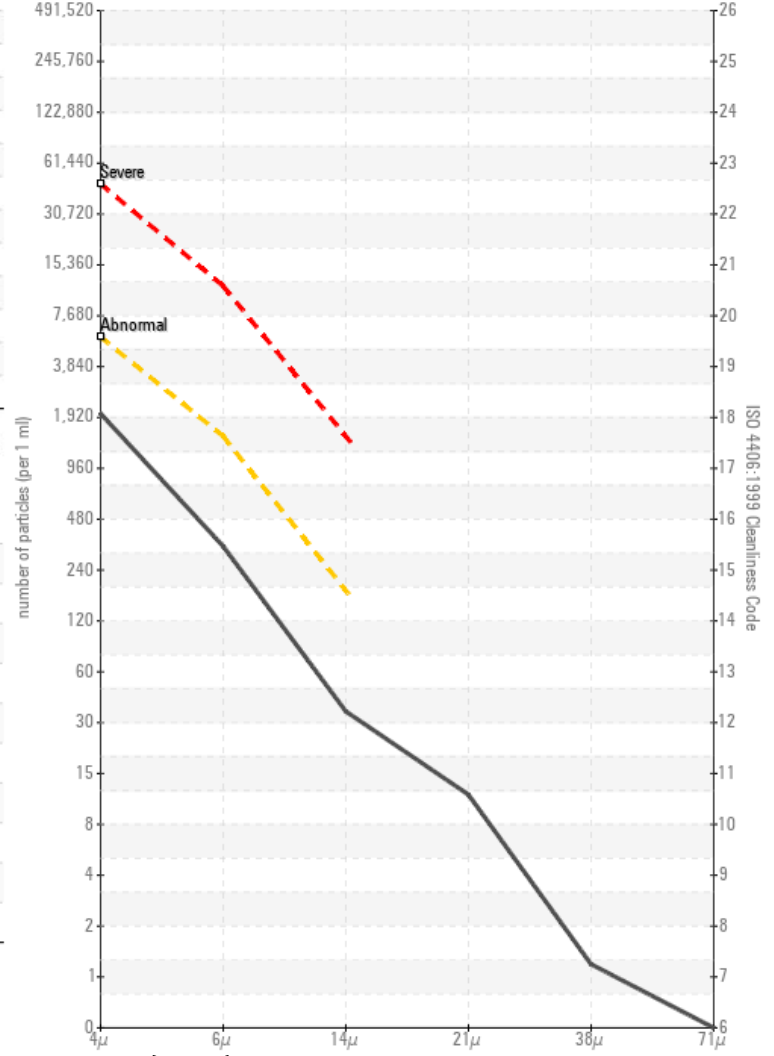


## VOLVO GRAPHS

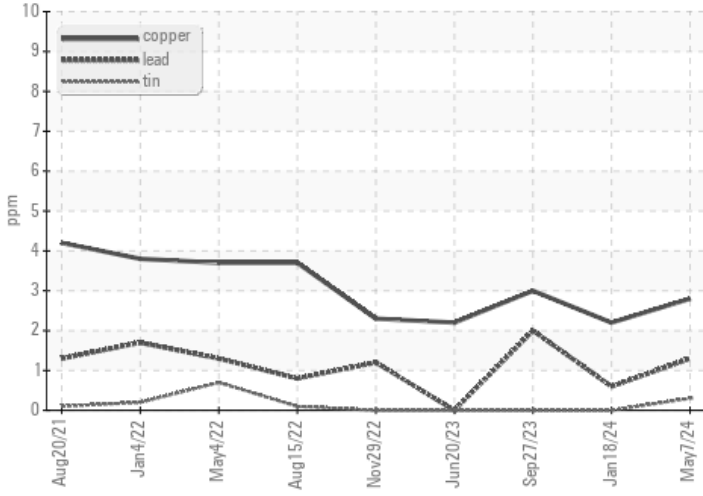
### Ferrous Alloys



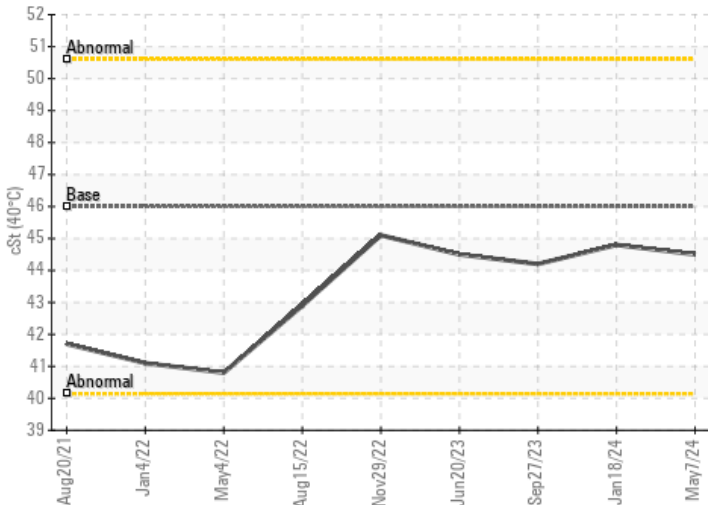
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

