



# CONSTRUCTION EQUIPMENT

## SWO-064541 VOLVO A60H 350051 - HYDRAULIC SYSTEM



**Sample No:** VCP416373  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-064541



### SAMPLE INFORMATION

Sample Number	<b>VCP416373</b>	VCP424042	VCP392899	VCP364220
Sample Date	<b>03 Aug 2023</b>	28 Apr 2023	21 Dec 2022	31 Aug 2022
Machine Hours	<b>6858</b>	6390	5828	5303
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	ABNORMAL	ATTENTION	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>	44.1	43.8	43.0
Acid Number (AN)	mg KOH/g	<b>0.41</b>	0.35	0.45	0.44

### CONTAMINATION

Particles >4µm		<b>455</b>	---	2696	904
Particles >6µm		<b>109</b>	---	1086	253
Particles >14µm		<b>6</b>	---	▲ 127	45
ISO 4406:1999 (c)		<b>16/14/10</b>	---	19/17/14	17/15/13
Silicon	ppm	<b>3</b>	3	4	3
Sodium	ppm	<b>0</b>	1	1	2
Potassium	ppm	<b>3</b>	0	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>5</b>	3	6	5
Copper	ppm	<b>&lt;1</b>	2	4	6
Lead	ppm	<b>2</b>	0	2	1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>1</b>	<1	1	1
Molybdenum	ppm	<b>&lt;1</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>157</b>	160	197	213
Magnesium	ppm	<b>13</b>	11	6	3
Zinc	ppm	<b>476</b>	414	473	481
Phosphorus	ppm	<b>342</b>	343	379	397
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10589285  
**Signed:** Don Baldrige  
**Report Date:** 08 Aug 2023

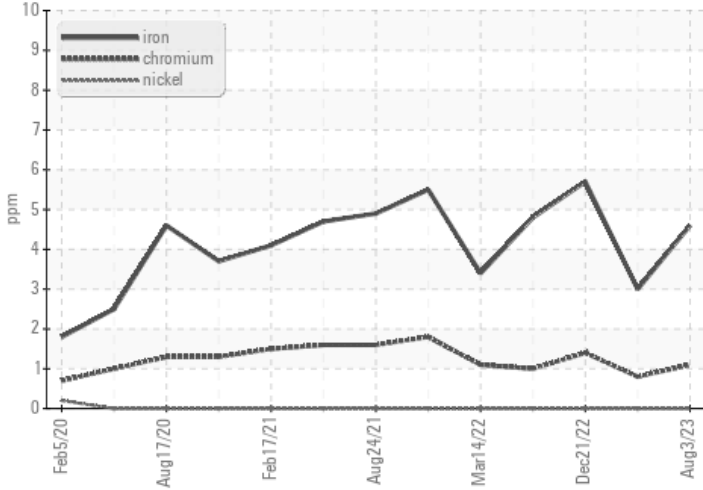


# CONSTRUCTION EQUIPMENT

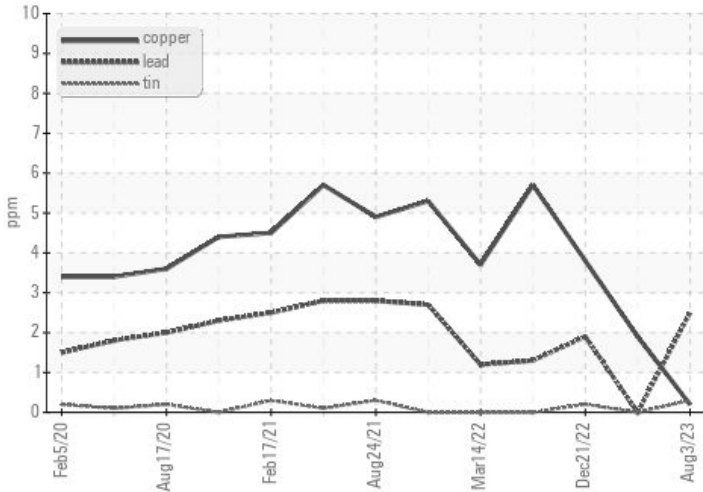


## GRAPHS

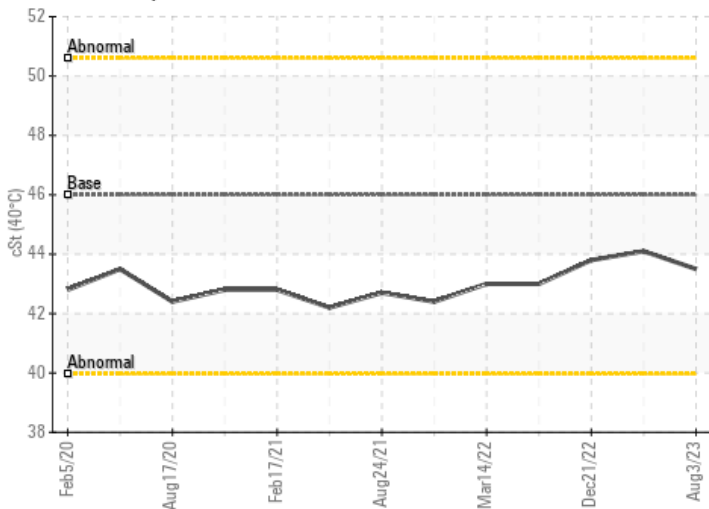
### Ferrous Alloys



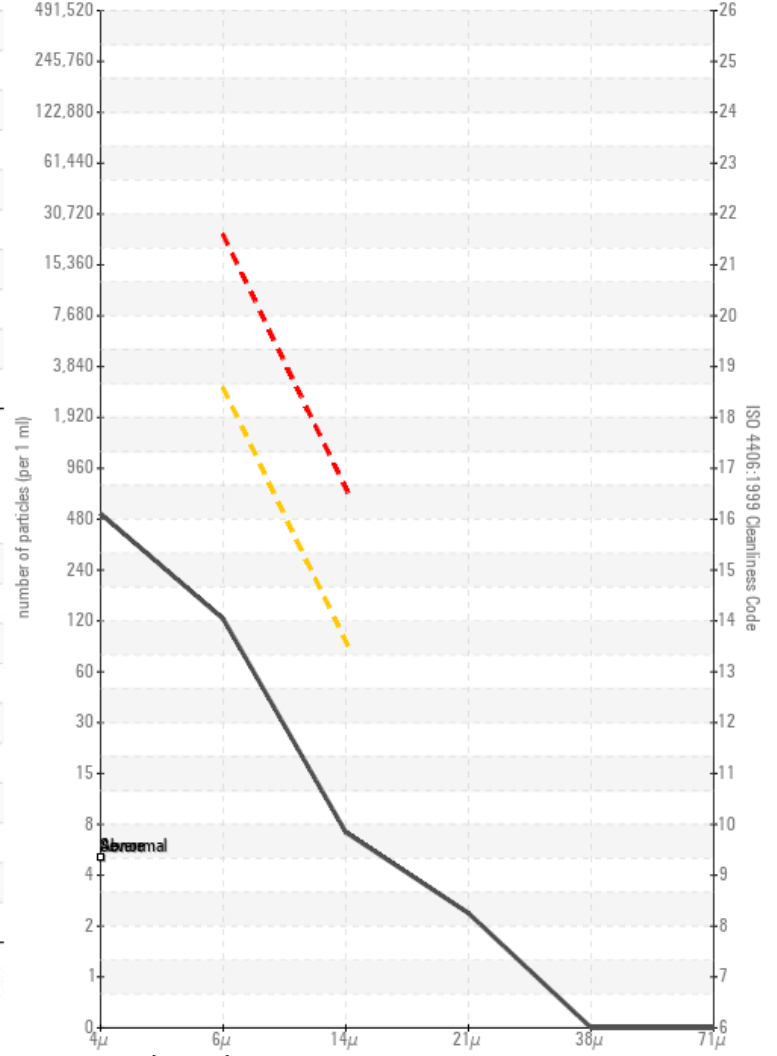
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

