



# CONSTRUCTION EQUIPMENT

## 306218 VOLVO A40G 352961 - HYDRAULIC SYSTEM



**Sample No:** VCP417828

**Oil Type:** NOT GIVEN

**Job No:** 306218



### SAMPLE INFORMATION

Sample Number	<b>VCP417828</b>	VCP417838	---	---
Sample Date	<b>12 Jul 2023</b>	11 Jul 2023	---	---
Machine Hours	<b>2532</b>	2532	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>N/A</b>	N/A	---	---
Sample Status	<b>SEVERE</b>	ABNORMAL	---	---



### ALTA EQUIPMENT

5985 COURT STREET ROAD  
 SYRACUSE, NY  
 US 13206  
 Contact: JIM STRIGLE  
 JIM.STRIGLE@ALTG.COM  
 T: (315)437-2611  
 F: (315)434-9471



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	▲ 51.8	---	---
Acid Number (AN)	mg KOH/g	<b>0.63</b>	■ 0.95	---	---



### CONTAMINATION

Particles >4µm		<b>87036</b>	55359	---	---
Particles >6µm		<b>▲ 31385</b>	▲ 17010	---	---
Particles >14µm		<b>● 1422</b>	▲ 1016	---	---
ISO 4406:1999 (c)		<b>24/22/18</b>	23/21/17	---	---
Silicon	ppm	<b>■ 11</b>	■ 18	---	---
Sodium	ppm	<b>■ 2</b>	■ 7	---	---
Potassium	ppm	<b>■ &lt;1</b>	■ 2	---	---



### WEAR METALS

Iron	ppm	<b>■ 5</b>	■ 19	---	---
Copper	ppm	<b>■ 4</b>	■ 109	---	---
Lead	ppm	<b>■ &lt;1</b>	■ 1	---	---
Tin	ppm	<b>■ &lt;1</b>	■ <1	---	---
Aluminum	ppm	<b>■ 1</b>	■ 0	---	---
Chromium	ppm	<b>■ &lt;1</b>	■ 1	---	---
Molybdenum	ppm	<b>&lt;1</b>	1	---	---
Nickel	ppm	<b>■ 0</b>	■ 4	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	1	---	---
Vanadium	ppm	<b>&lt;1</b>	<1	---	---



### ADDITIVES

Calcium	ppm	<b>1710</b>	3173	---	---
Magnesium	ppm	<b>14</b>	34	---	---
Zinc	ppm	<b>892</b>	1416	---	---
Phosphorus	ppm	<b>703</b>	1149	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>50</b>	86	---	---

### Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**Depot:** VOLV00142  
**Unique No:** 10559877  
**Signed:** Wes Davis  
**Report Date:** 17 Jul 2023

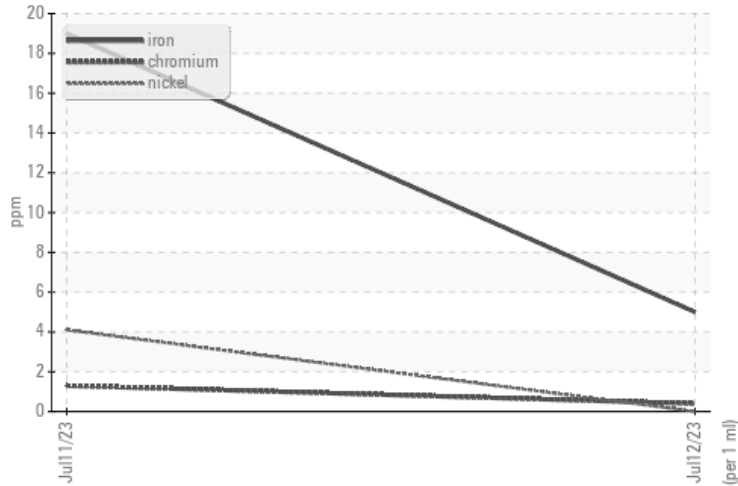


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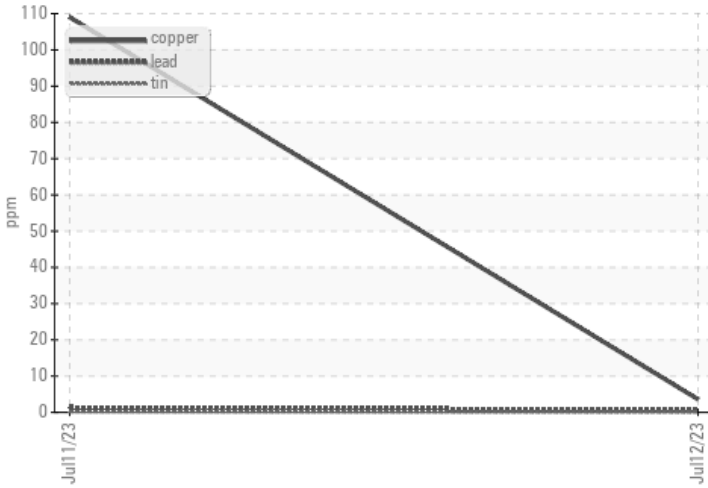


## GRAPHS

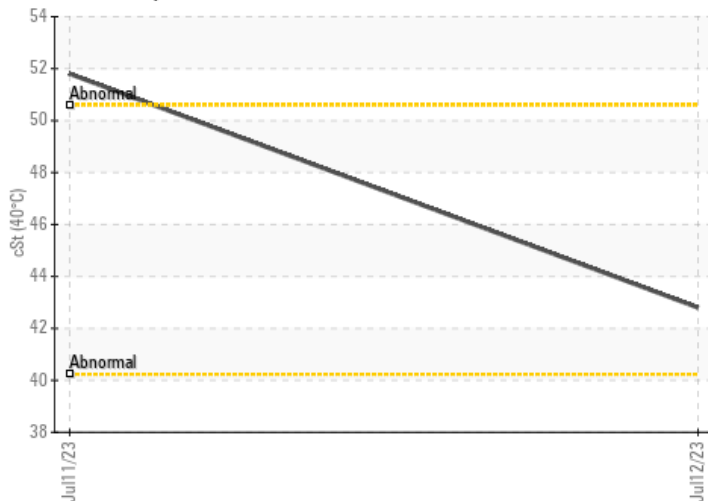
### Ferrous Alloys



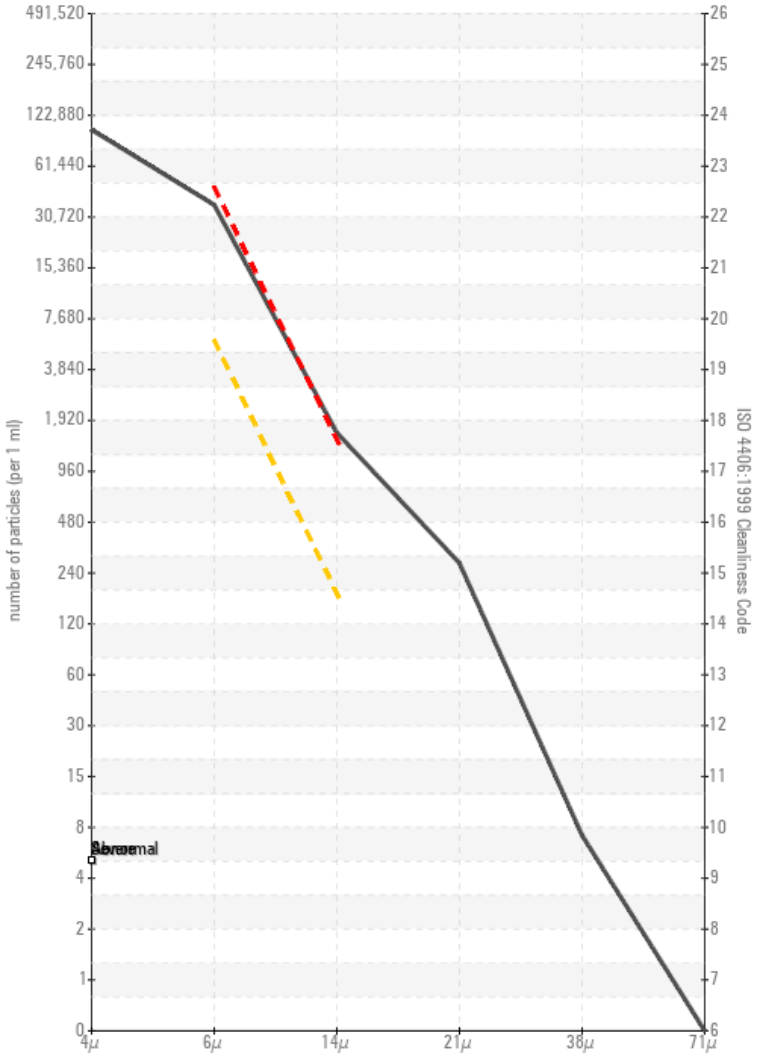
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

