



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 3421 10 - HYDRAULIC SYSTEM



**Sample No:** VCP418938  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP418938</b>	VCP315804	VCP300329	VCP279702
Sample Date	<b>16 Aug 2023</b>	26 Jul 2021	11 Jan 2021	29 Jul 2020
Machine Hours	<b>7194</b>	3926	3210	2406
Oil Hours	<b>1000</b>	3926	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	ABNORMAL	ATTENTION	NORMAL

### ALTA EQUIPMENT

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 SYRACUSE, NY  
 US 13206  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.9</b>	40.8	41.0	41.4
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.385	0.290	0.561



### CONTAMINATION

Particles >4µm		<b>667</b>	---	11123	3855
Particles >6µm		<b>82</b>	---	2255	1024
Particles >14µm		<b>14</b>	---	▲ 178	129
ISO 4406:1999 (c)		<b>17/14/11</b>	---	21/18/15	19/17/14
Silicon	ppm	<b>14</b>	12	11	10
Sodium	ppm	<b>4</b>	3	2	2
Potassium	ppm	<b>1</b>	2	1	6

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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>16</b>	10	8	7
Copper	ppm	<b>8</b>	11	10	9
Lead	ppm	<b>2</b>	3	3	2
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>6</b>	3	0	3
Chromium	ppm	<b>&lt;1</b>	1	1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	0
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>263</b>	68	65	58
Magnesium	ppm	<b>13</b>	7	6	5
Zinc	ppm	<b>484</b>	425	457	428
Phosphorus	ppm	<b>393</b>	310	342	331
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	2	<1	<1

**Depot:** VOLV00142  
**Unique No:** 10609486  
**Signed:** Angela Borella  
**Report Date:** 22 Aug 2023

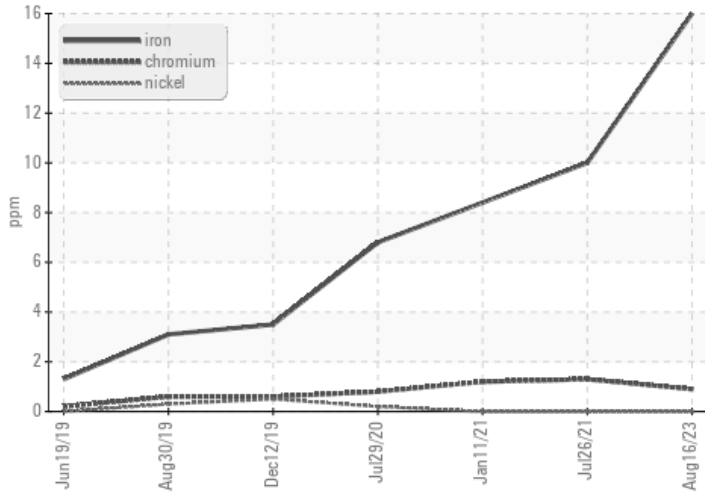


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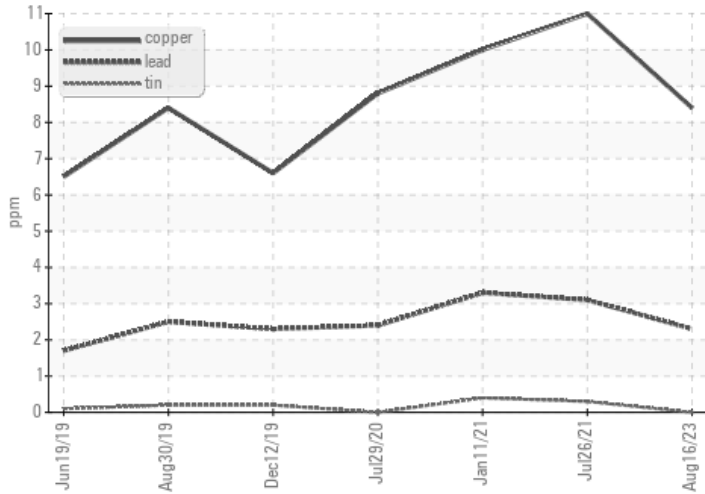


## VOLVO GRAPHS

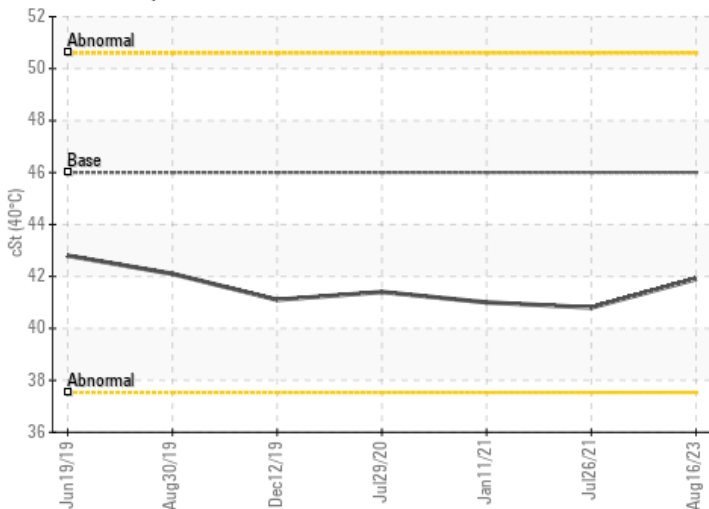
Ferrous Alloys



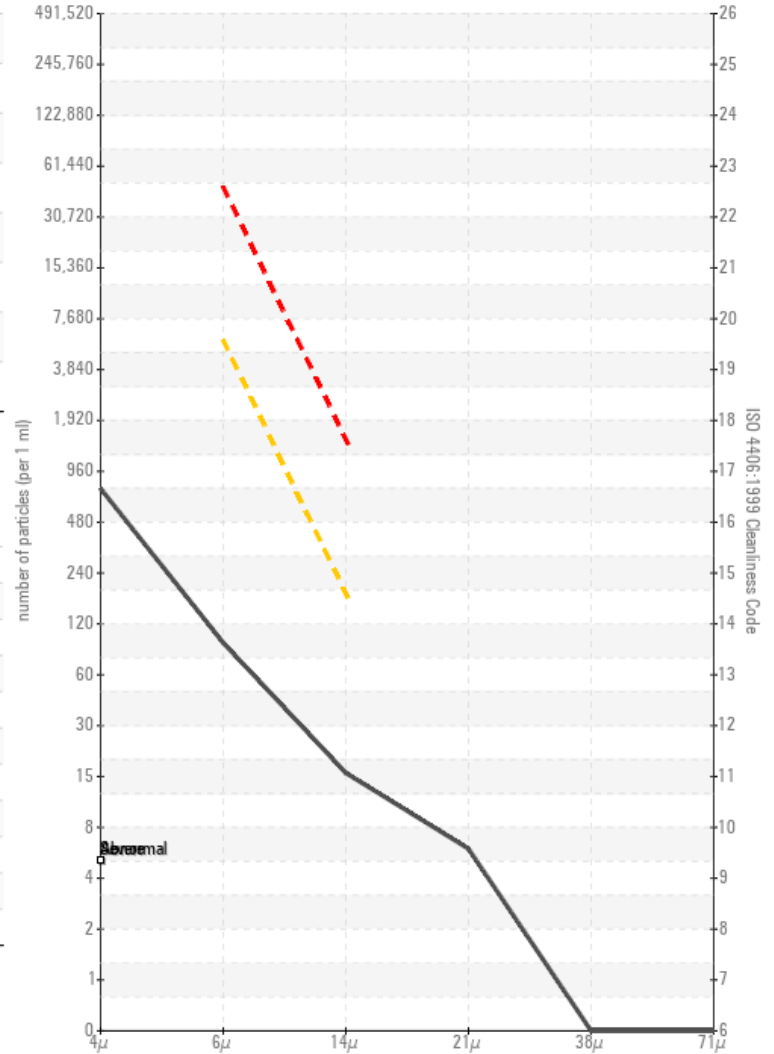
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

