



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342658 - HYDRAULIC SYSTEM



**Sample No:** VCP402331

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP402331</b>	VCP385247	VCP360975	VCP337448
Sample Date	<b>13 Jul 2023</b>	06 Mar 2023	08 Nov 2022	06 Sep 2022
Machine Hours	<b>8893</b>	8373	7751	7289
Oil Hours	<b>1604</b>	1084	462	1967
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ATTENTION



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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.0</b>	39.1	39.6	39.4
Acid Number (AN)	mg KOH/g	<b>1.11</b>	1.14	1.39	1.10



### CONTAMINATION

Particles >4µm		<b>53516</b>	128695	49278	45683
Particles >6µm		<b>17974</b>	51721	10971	9020
Particles >14µm		<b>1041</b>	2494	406	223
ISO 4406:1999 (c)		<b>23/21/17</b>	24/23/18	23/21/16	23/20/15
Silicon	ppm	<b>13</b>	17	13	12
Sodium	ppm	<b>2</b>	3	3	1
Potassium	ppm	<b>0</b>	0	0	2



### WEAR METALS

Iron	ppm	<b>3</b>	4	4	4
Copper	ppm	<b>0</b>	<1	1	2
Lead	ppm	<b>0</b>	<1	2	1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	4	2	3
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>2</b>	2	2	<1
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3096</b>	2664	2719	2284
Magnesium	ppm	<b>29</b>	22	24	16
Zinc	ppm	<b>1061</b>	1003	1036	954
Phosphorus	ppm	<b>855</b>	755	817	776
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>1</b>	<1	2	2

### Diagnosis

No corrective action is recommended at this time. The 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 a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** SCHGRE  
**Unique No:** 10586388  
**Signed:** Jonathan Hester  
**Report Date:** 07 Aug 2023

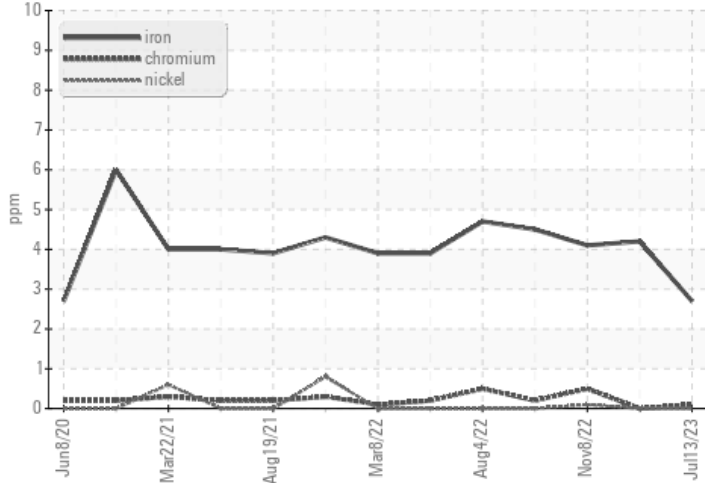


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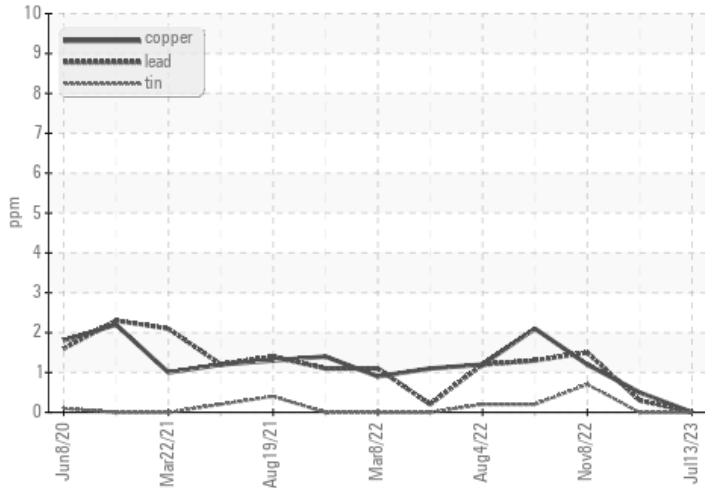


## GRAPHS

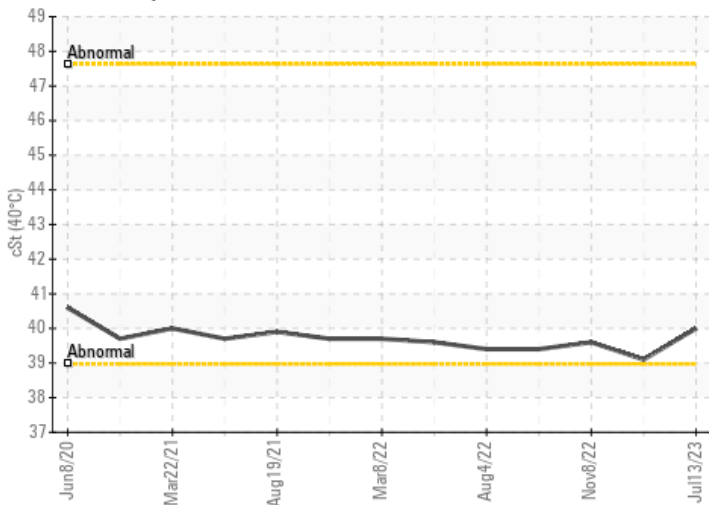
### Ferrous Alloys



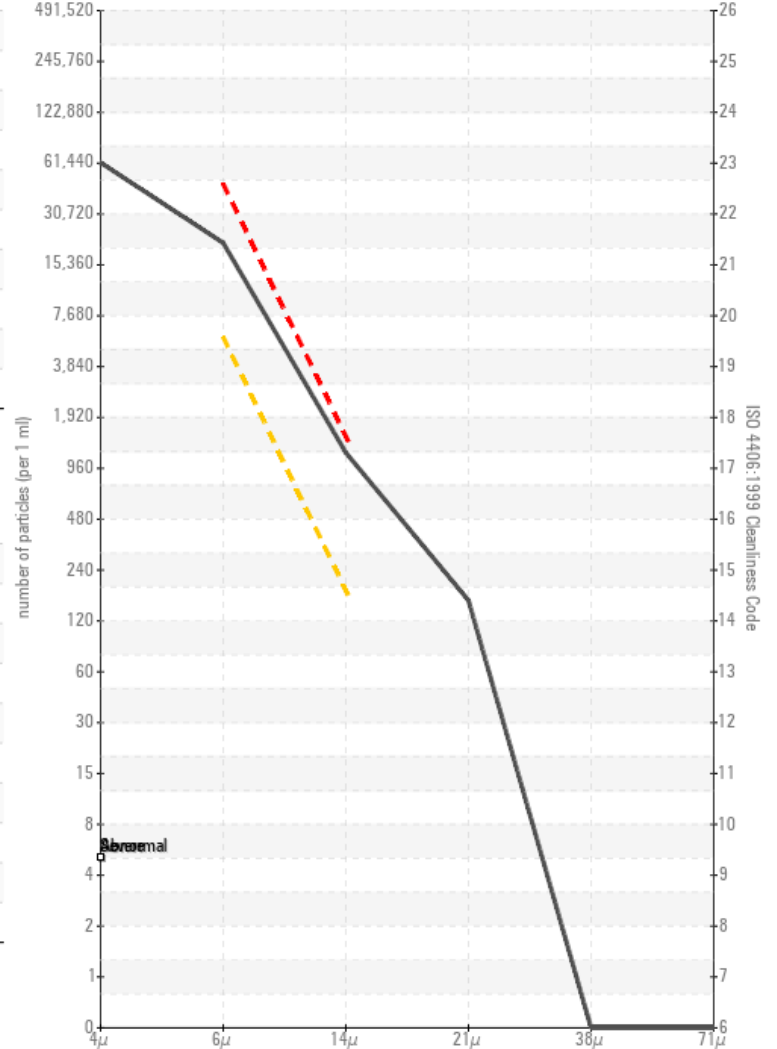
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

