



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342608 - HYDRAULIC SYSTEM



**Sample No:** VCP405662  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405662</b>	VCP401913	VCP385252	VCP359584
Sample Date	<b>21 Aug 2023</b>	30 May 2023	06 Mar 2023	08 Nov 2022
Machine Hours	<b>10330</b>	9778	9160	8504
Oil Hours	<b>1826</b>	1274	656	1984
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	ABNORMAL	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.4</b>	39.6	39.5	39.4
Acid Number (AN)	mg KOH/g	<b>1.21</b>	1.23	1.25	1.43



### CONTAMINATION

Particles >4µm		<b>4306</b>	119773	25323	882
Particles >6µm		<b>750</b>	46098	6688	151
Particles >14µm		<b>46</b>	2201	246	8
ISO 4406:1999 (c)		<b>19/17/13</b>	24/23/18	22/20/15	17/14/10
Silicon	ppm	<b>16</b>	18	14	11
Sodium	ppm	<b>4</b>	3	2	3
Potassium	ppm	<b>0</b>	0	0	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>3072</b>	3088	3166	2765
Magnesium	ppm	<b>20</b>	24	24	23
Zinc	ppm	<b>1034</b>	1057	1086	1013
Phosphorus	ppm	<b>838</b>	839	824	815
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	1	1	2

**Depot:** SCHGRE  
**Unique No:** 10634141  
**Signed:** Don Baldrige  
**Report Date:** 08 Sep 2023

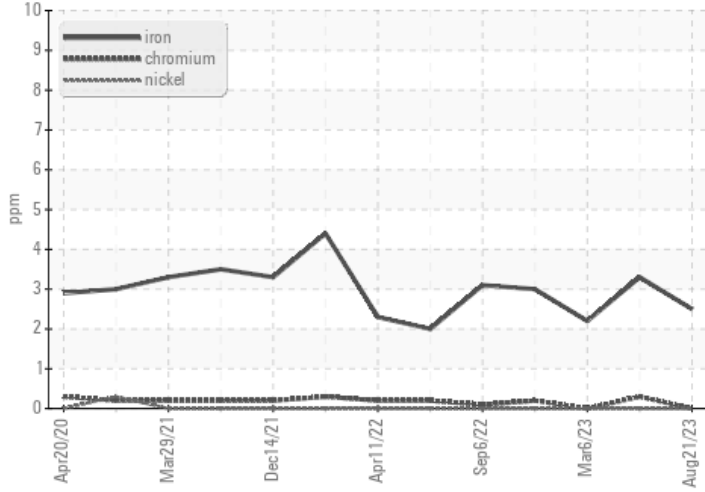


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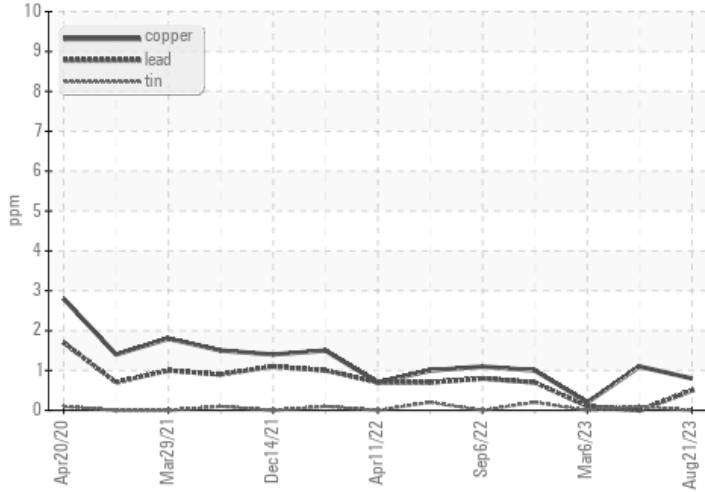


## GRAPHS

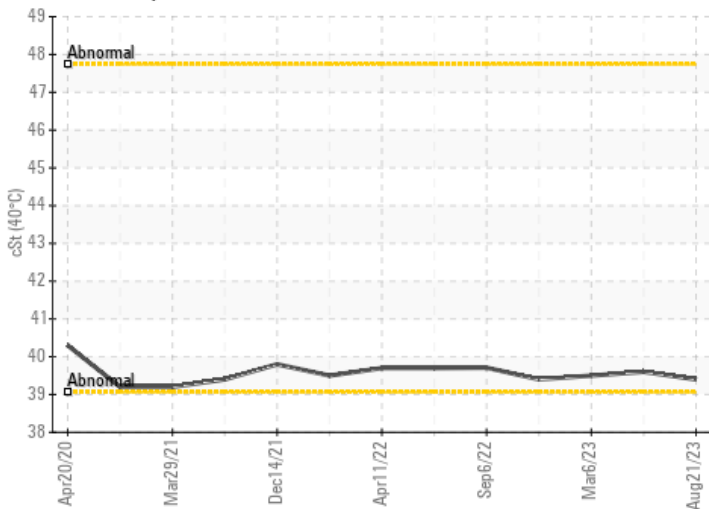
### Ferrous Alloys



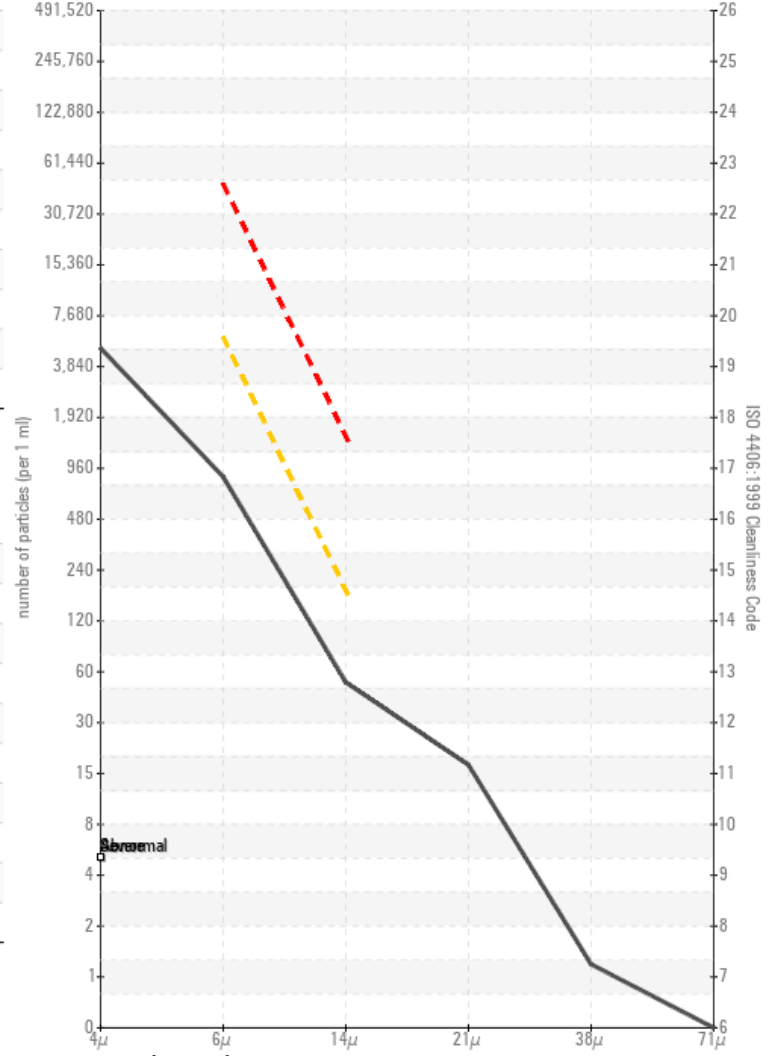
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

