



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 340668 - HYDRAULIC SYSTEM



**Sample No:** VCP447699

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP447699</b>	VCP416392	VCP312539	---
Sample Date	<b>09 Jul 2024</b>	08 Feb 2024	24 Oct 2023	---
Machine Hours	<b>17948</b>	17181	16708	---
Oil Hours	<b>1835</b>	1068	595	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.1</b>	39.6	40.0	---
Acid Number (AN)	mg KOH/g	<b>1.07</b>	1.25	0.21	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>7207</b>	7083	1022	---
Particles >6µm		<b>1651</b>	597	370	---
Particles >14µm		<b>114</b>	16	31	---
ISO 4406:1999 (c)		<b>20/18/14</b>	20/16/11	17/16/12	---
Silicon	ppm	<b>17</b>	16	13	---
Sodium	ppm	<b>0</b>	5	3	---
Potassium	ppm	<b>2</b>	0	0	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>3318</b>	2920	3190	---
Magnesium	ppm	<b>28</b>	19	29	---
Zinc	ppm	<b>1126</b>	913	1095	---
Phosphorus	ppm	<b>895</b>	831	898	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>3</b>	2	4	---

**Depot:** SCHGRE  
**Unique No:** 11129078  
**Signed:** Don Baldrige  
**Report Date:** 20 Jul 2024

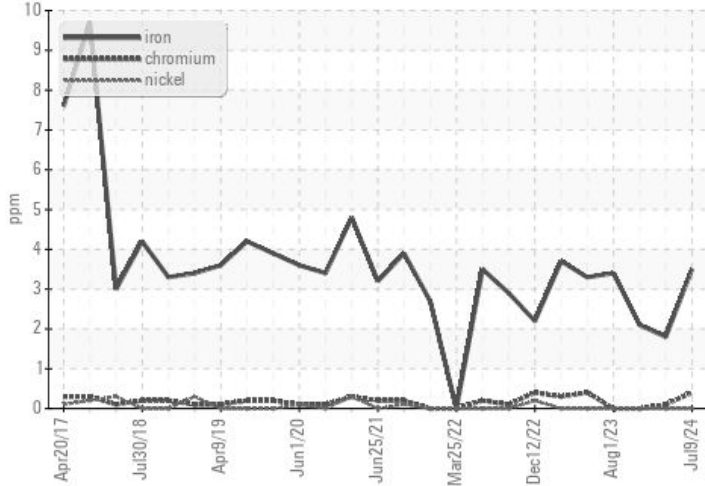


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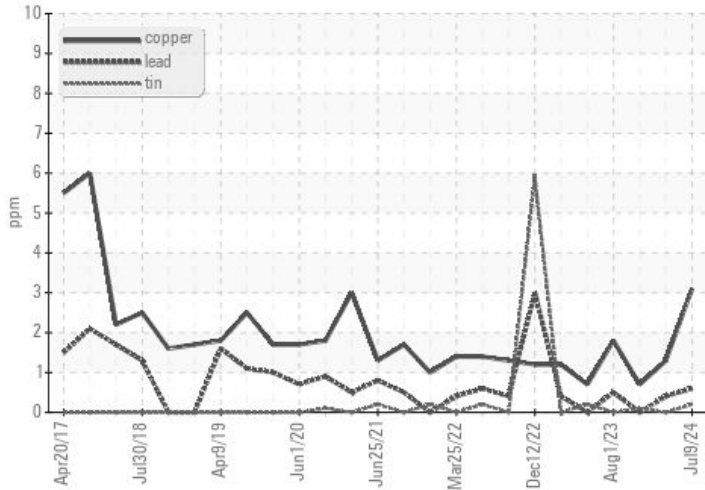


## GRAPHS

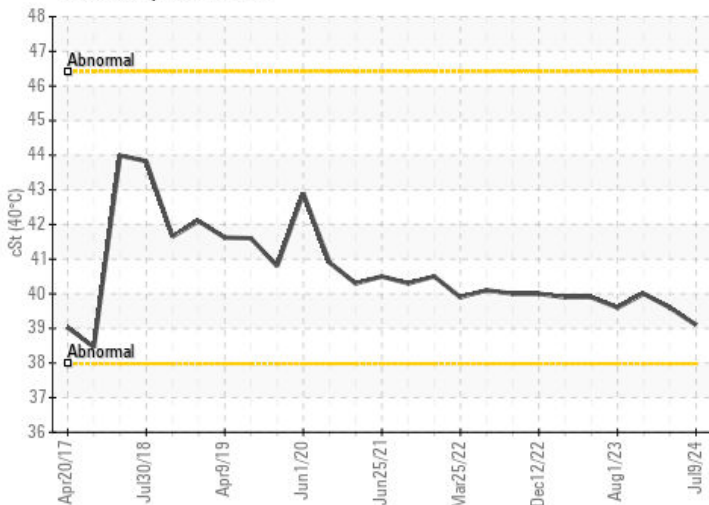
### Ferrous Alloys



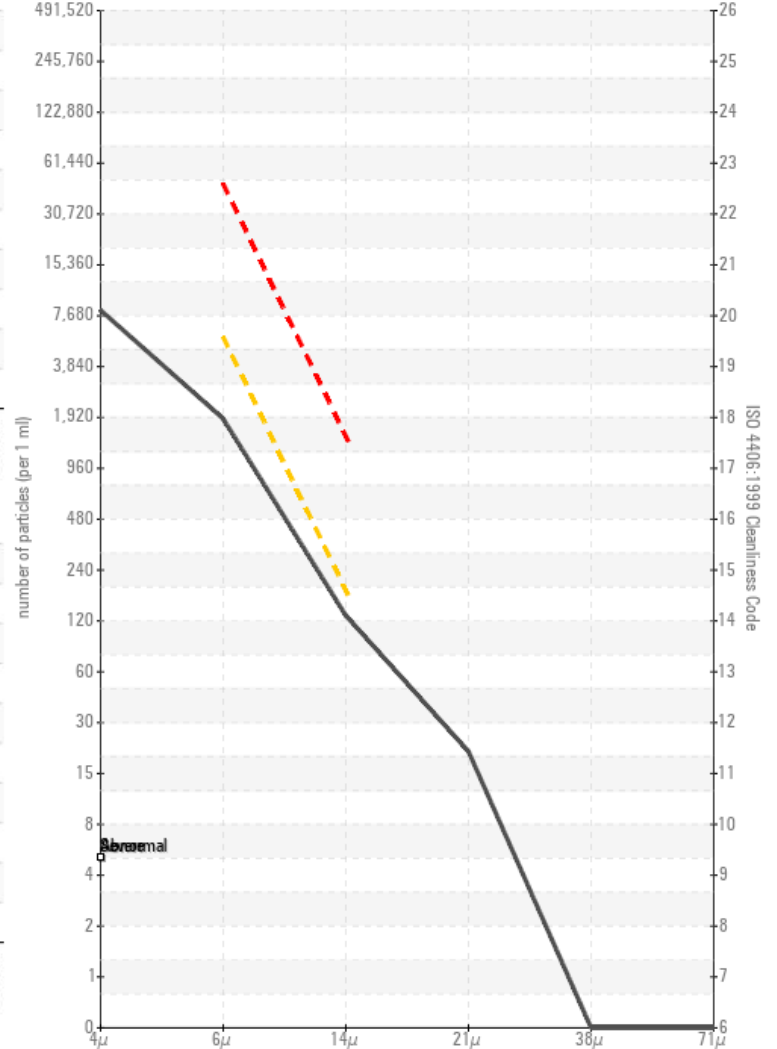
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

