



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 340668 - HYDRAULIC SYSTEM



**Sample No:** VCP416392  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416392</b>	VCP312539	VCP406126	VCP405725
Sample Date	<b>08 Feb 2024</b>	24 Oct 2023	01 Aug 2023	20 Jun 2023
Machine Hours	<b>17181</b>	16708	16113	15839
Oil Hours	<b>1068</b>	595	2004	1730
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.6</b>	40.0	39.6	39.9
Acid Number (AN)	mg KOH/g	<b>1.25</b>	0.21	1.22	1.25



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>7083</b>	1022	817	11723
Particles >6µm		<b>597</b>	370	241	4004
Particles >14µm		<b>16</b>	31	19	336
ISO 4406:1999 (c)		<b>20/16/11</b>	17/16/12	17/15/11	21/19/16
Silicon	ppm	<b>16</b>	13	14	14
Sodium	ppm	<b>5</b>	3	3	2
Potassium	ppm	<b>0</b>	0	0	1

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



### ADDITIVES

Calcium	ppm	<b>2920</b>	3190	3042	3356
Magnesium	ppm	<b>19</b>	29	25	26
Zinc	ppm	<b>913</b>	1095	1066	1210
Phosphorus	ppm	<b>831</b>	898	851	971
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	4	3	3

**Depot:** SCHGRE  
**Unique No:** 10898305  
**Signed:** Don Baldrige  
**Report Date:** 27 Feb 2024

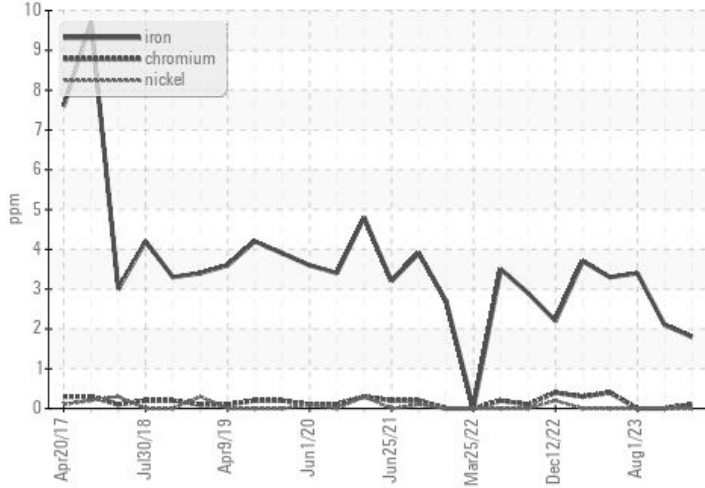


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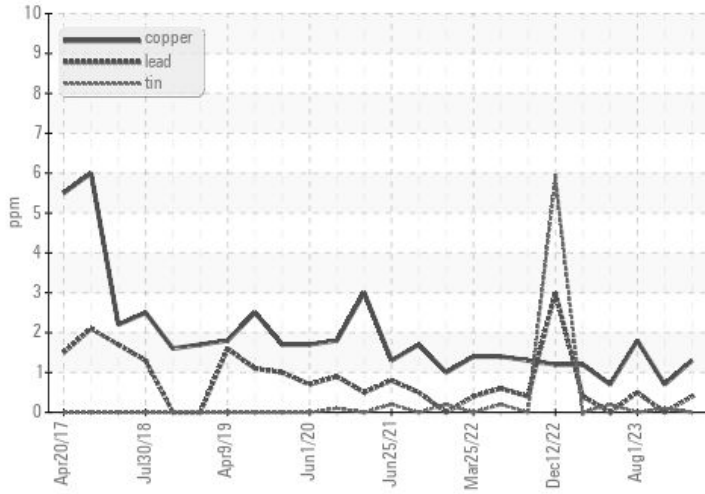


## GRAPHS

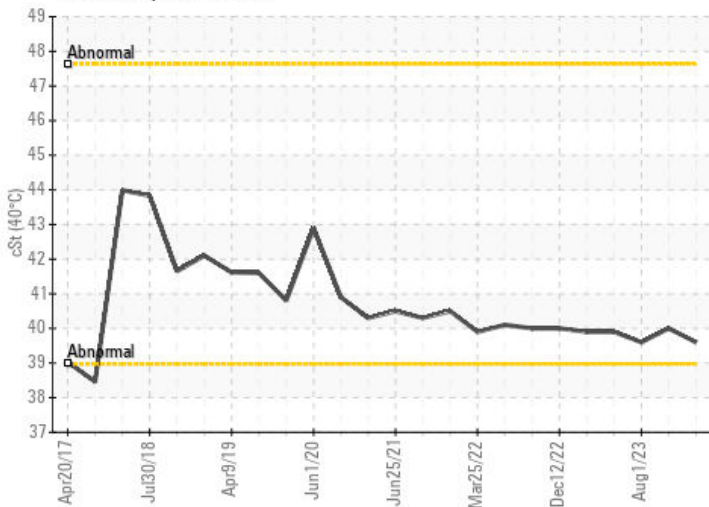
### Ferrous Alloys



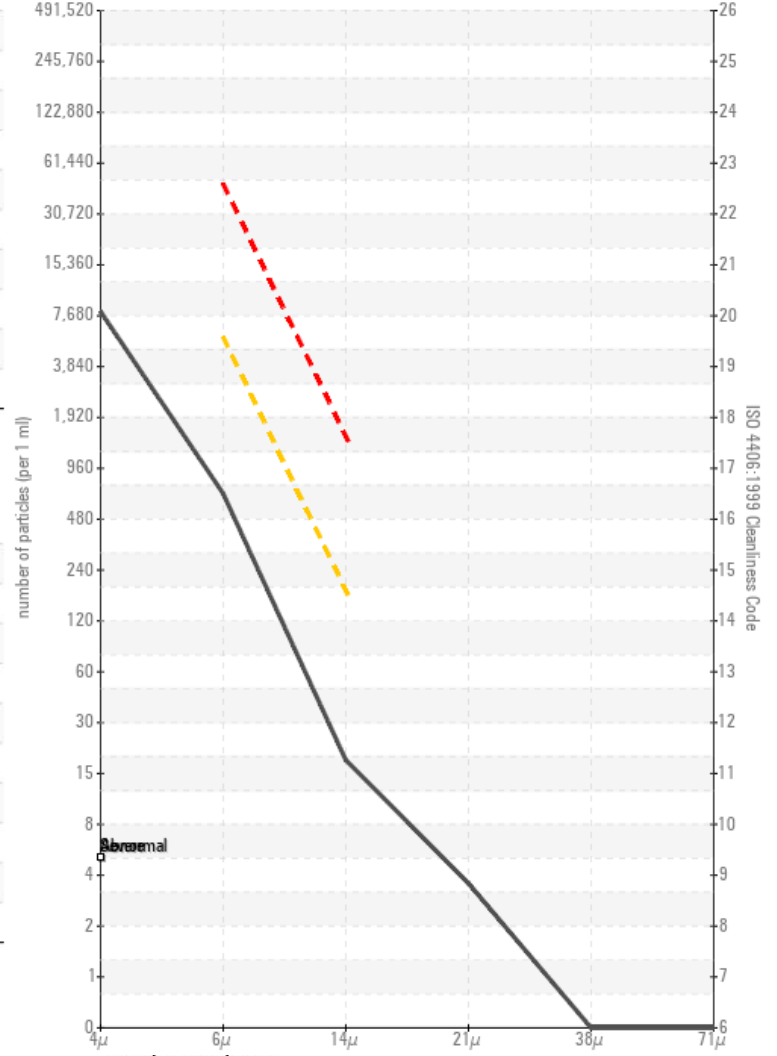
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

