



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342252 - HYDRAULIC SYSTEM



**Sample No:** VCP401155  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP401155</b>	VCP445740	VCP396973	VCP398012
Sample Date	<b>11 Mar 2024</b>	29 Nov 2023	25 Sep 2023	29 Aug 2023
Machine Hours	<b>11973</b>	11431	11035	10867
Oil Hours	<b>938</b>	396	1952	1784
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.2</b>	39.1	39.2	39.5
Acid Number (AN)	mg KOH/g	<b>1.26</b>	1.26	1.16	1.39



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>33887</b>	35544	65891	16569
Particles >6µm		<b>12122</b>	9249	22164	4153
Particles >14µm		<b>928</b>	350	952	154
ISO 4406:1999 (c)		<b>22/21/17</b>	22/20/16	23/22/17	21/19/14
Silicon	ppm	<b>12</b>	11	11	12
Sodium	ppm	<b>2</b>	3	3	3
Potassium	ppm	<b>0</b>	0	0	0

### 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.



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>3281</b>	3210	3095	3105
Magnesium	ppm	<b>23</b>	22	25	25
Zinc	ppm	<b>1061</b>	1052	1016	1020
Phosphorus	ppm	<b>896</b>	881	869	856
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	1	2	2

**Depot:** SCHGRE  
**Unique No:** 10937730  
**Signed:** Jonathan Hester  
**Report Date:** 25 Mar 2024

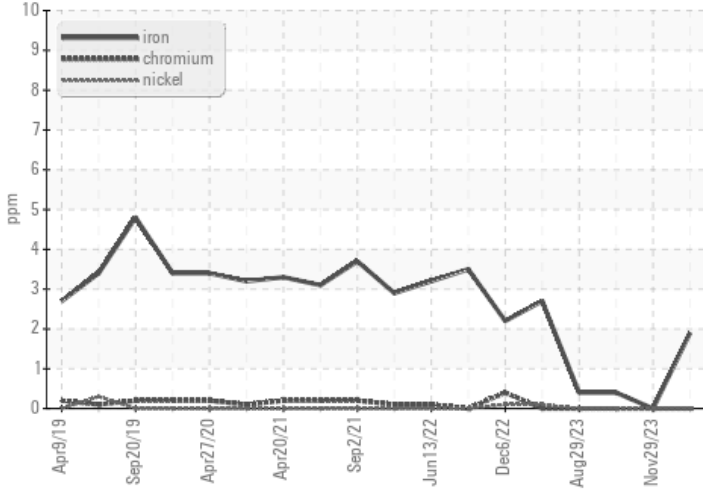


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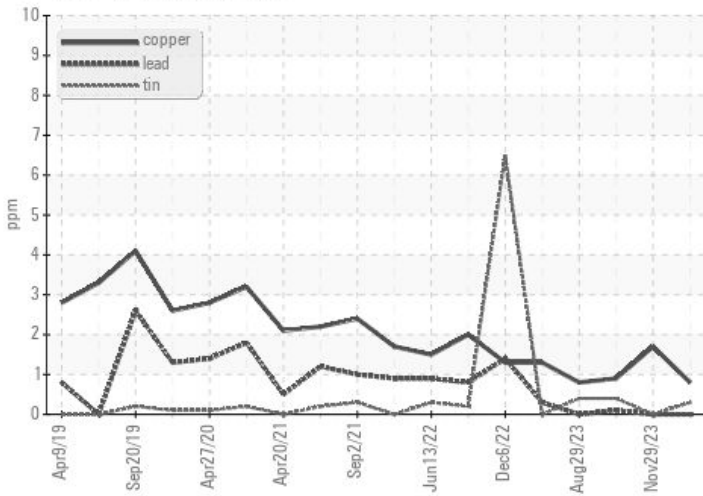


## GRAPHS

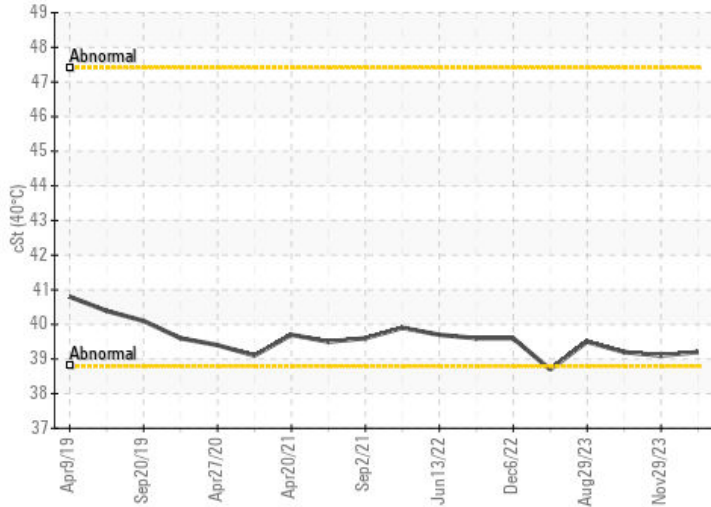
### Ferrous Alloys



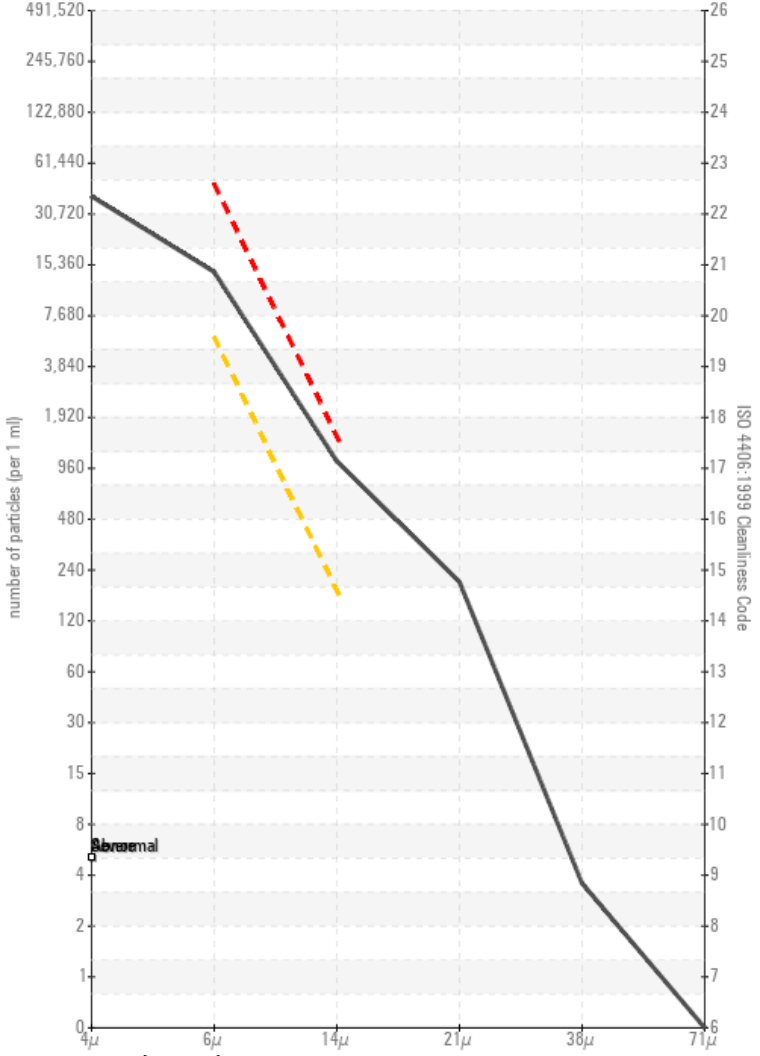
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

