



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352199 - HYDRAULIC SYSTEM



**Sample No:** VCP404652

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP404652</b>	VCP390562	VCP385104	VCP390580
Sample Date	<b>19 Jul 2023</b>	02 May 2023	13 Feb 2023	01 Nov 2022
Machine Hours	<b>5644</b>	5149	4597	4083
Oil Hours	<b>1047</b>	1025	2023	1509
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>40.3</b>	40.6	42.6	40.9
Acid Number (AN)	mg KOH/g	<b>0.72</b>	0.63	0.35	0.44



### CONTAMINATION

Particles >4µm		<b>16037</b>	30820	39860	3740
Particles >6µm		<b>5662</b>	8148	14809	549
Particles >14µm		<b>549</b>	343	713	22
ISO 4406:1999 (c)		<b>21/20/16</b>	22/20/16	22/21/17	19/16/12
Silicon	ppm	<b>11</b>	12	8	8
Sodium	ppm	<b>2</b>	4	4	3
Potassium	ppm	<b>0</b>	0	0	0

### Diagnosis

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>4</b>	4	5	5
Copper	ppm	<b>2</b>	4	5	5
Lead	ppm	<b>&lt;1</b>	0	<1	3
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	2	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>2</b>	2	0	0
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	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1691</b>	1603	51	50
Magnesium	ppm	<b>20</b>	18	2	<1
Zinc	ppm	<b>749</b>	714	402	414
Phosphorus	ppm	<b>601</b>	599	304	334
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	2	0	0

**Depot:** SCHGRE  
**Unique No:** 10586390  
**Signed:** Jonathan Hester  
**Report Date:** 04 Aug 2023

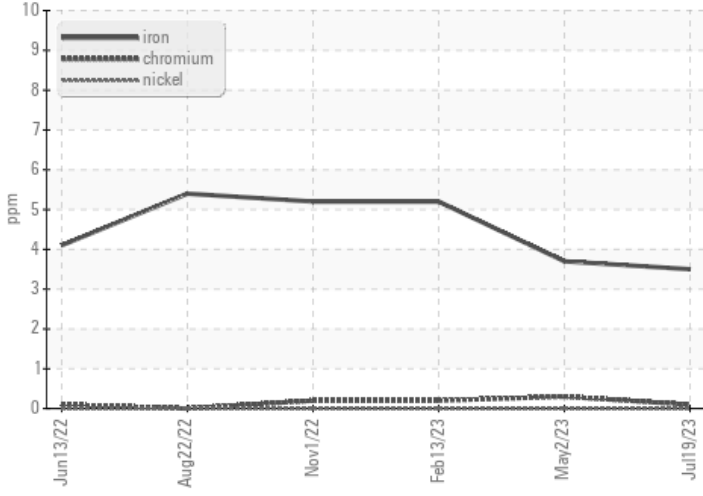


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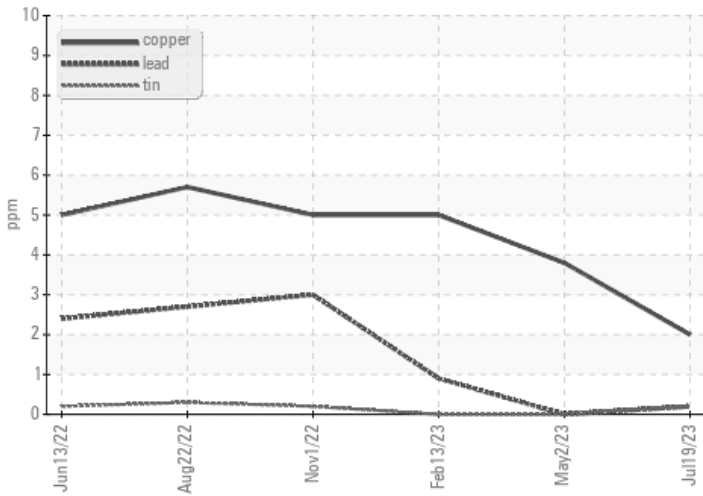


## GRAPHS

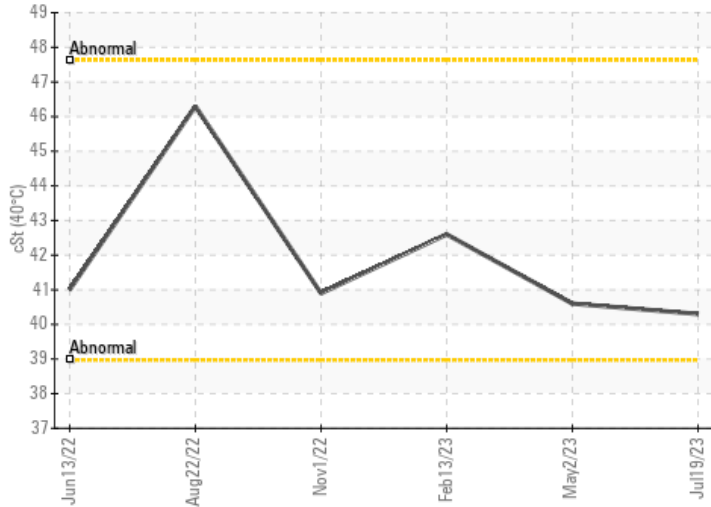
Ferrous Alloys



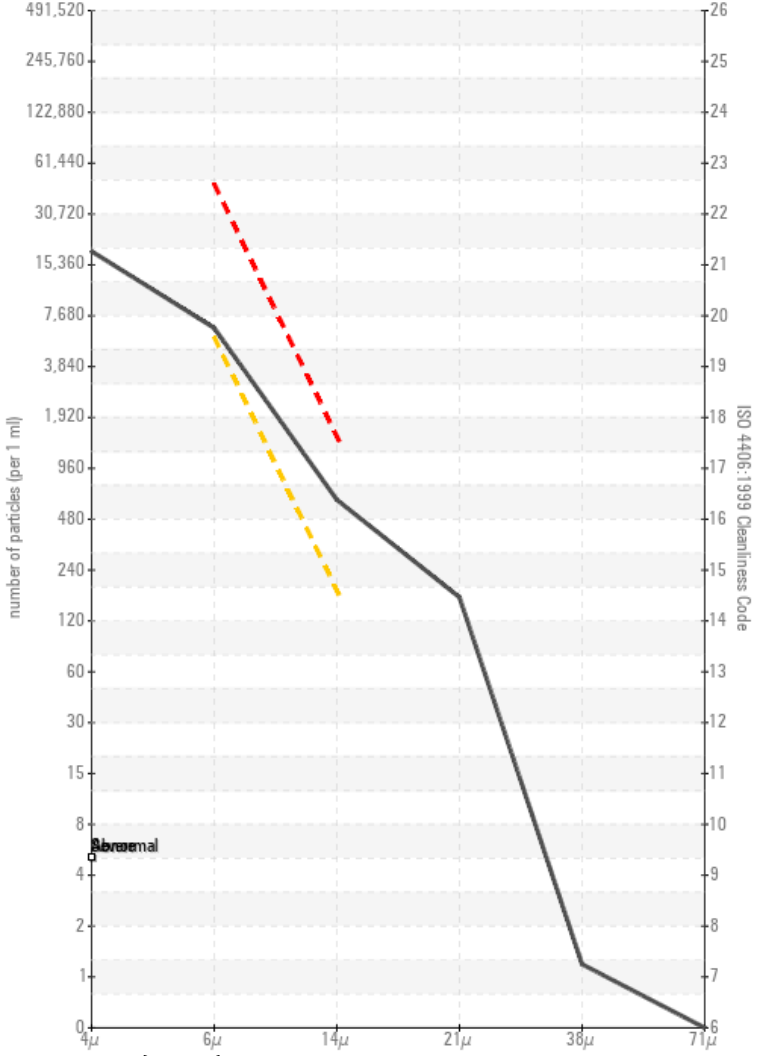
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

