



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352349 - HYDRAULIC SYSTEM



**Sample No:** VCP401034

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP401034</b>	VCP406798	VCP390566	VCP385087
Sample Date	<b>19 Jul 2023</b>	02 May 2023	13 Feb 2023	31 Oct 2022
Machine Hours	<b>5478</b>	4995	4463	3961
Oil Hours	<b>1960</b>	1477	945	443
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	ATTENTION	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>45.6</b>	40.6	40.5	41.0
Acid Number (AN)	mg KOH/g	<b>0.92</b>	0.81	0.71	0.81



### CONTAMINATION

Particles >4µm		<b>860</b>	22454	52171	13264
Particles >6µm		<b>243</b>	6338	16882	2737
Particles >14µm		<b>18</b>	259	418	100
ISO 4406:1999 (c)		<b>17/15/11</b>	22/20/15	23/21/16	21/19/14
Silicon	ppm	<b>11</b>	11	10	9
Sodium	ppm	<b>2</b>	4	2	1
Potassium	ppm	<b>0</b>	0	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>	4	3	3
Copper	ppm	<b>&lt;1</b>	2	1	1
Lead	ppm	<b>0</b>	<1	0	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	1	<1
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>1</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>1959</b>	1844	1770	1816
Magnesium	ppm	<b>16</b>	14	14	11
Zinc	ppm	<b>786</b>	751	673	751
Phosphorus	ppm	<b>638</b>	618	575	577
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	1	0	2

**Depot:** SCHGRE  
**Unique No:** 10586389  
**Signed:** Wes Davis  
**Report Date:** 04 Aug 2023

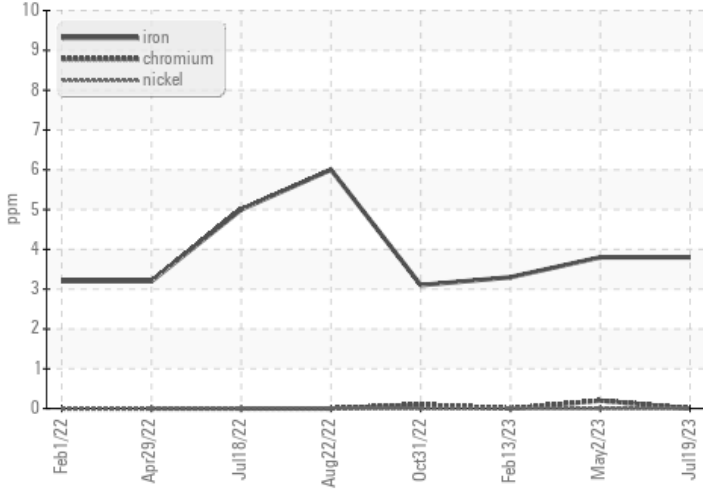


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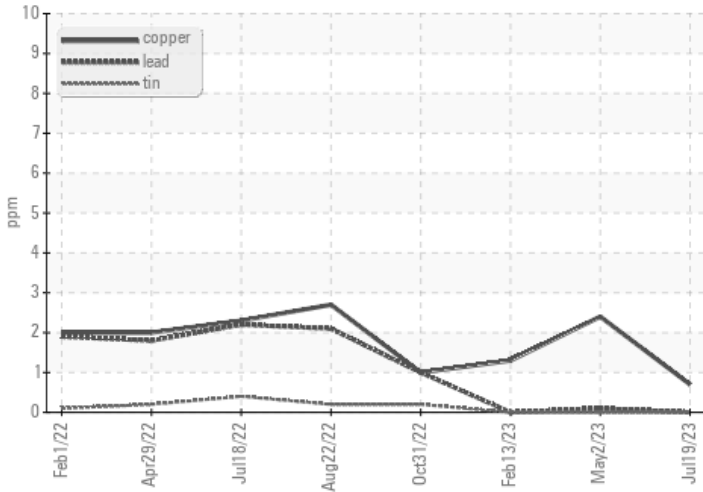


## GRAPHS

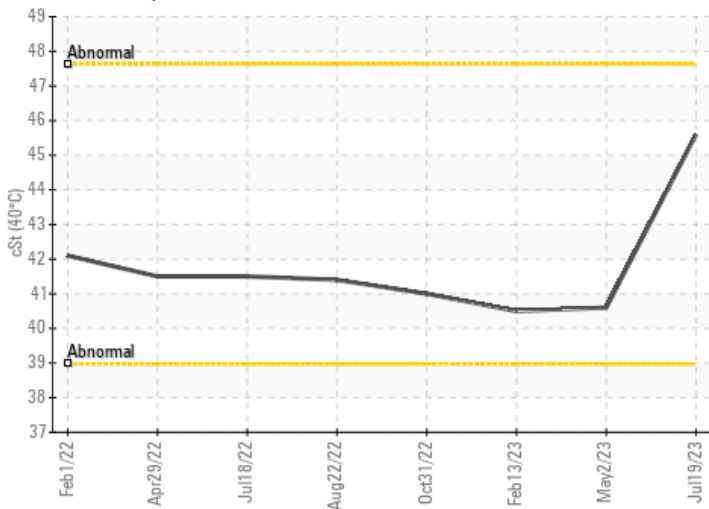
### Ferrous Alloys



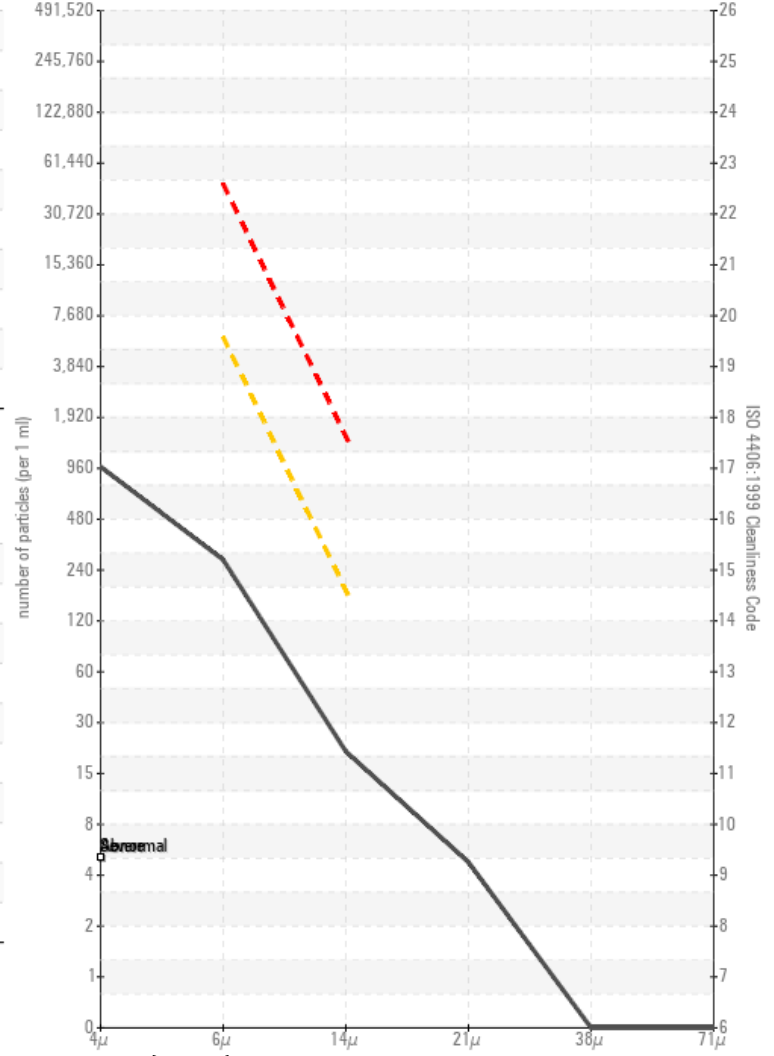
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

