



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352025 - HYDRAULIC SYSTEM



**Sample No:** VCP405661

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405661</b>	VCP400124	VCP05803915	VCP362721
Sample Date	<b>21 Aug 2023</b>	30 May 2023	06 Mar 2023	08 Nov 2022
Machine Hours	<b>9271</b>	8804	8253	7616
Oil Hours	<b>1021</b>	551	1041	404
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.0</b>	40.0	42.2	39.6
Acid Number (AN)	mg KOH/g	<b>1.04</b>	1.44	1.15	1.26



### CONTAMINATION

Particles >4µm		<b>18141</b>	129878	620	14538
Particles >6µm		<b>3801</b>	30107	166	2253
Particles >14µm		<b>161</b>	236	7	44
ISO 4406:1999 (c)		<b>21/19/15</b>	24/22/15	16/15/10	21/18/13
Silicon	ppm	<b>15</b>	14	13	12
Sodium	ppm	<b>3</b>	2	3	2
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 moderate 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>	3	2	3
Copper	ppm	<b>&lt;1</b>	1	<1	1
Lead	ppm	<b>&lt;1</b>	<1	<1	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>2</b>	2	2	5
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>2</b>	2	2	2
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3027</b>	3022	2813	2822
Magnesium	ppm	<b>23</b>	26	24	27
Zinc	ppm	<b>1005</b>	1018	1015	1047
Phosphorus	ppm	<b>811</b>	807	768	830
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	1	3

**Depot:** SCHGRE  
**Unique No:** 10634142  
**Signed:** Don Baldrige  
**Report Date:** 08 Sep 2023

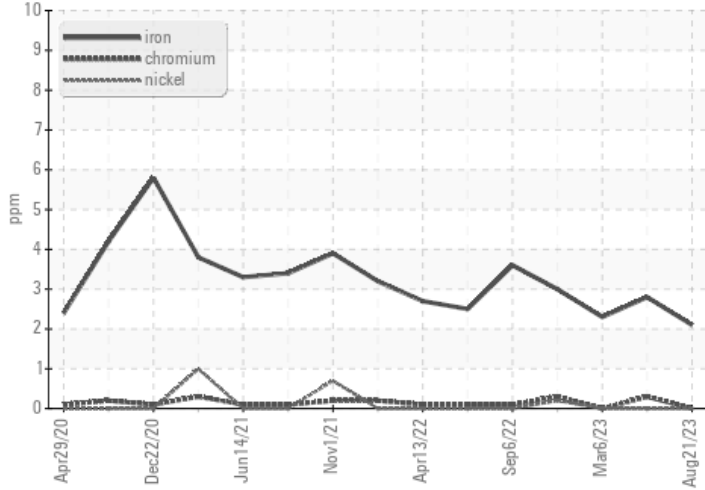


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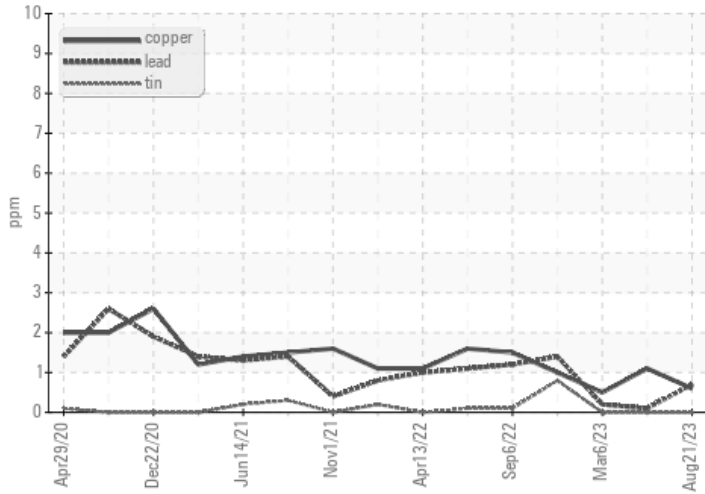


## GRAPHS

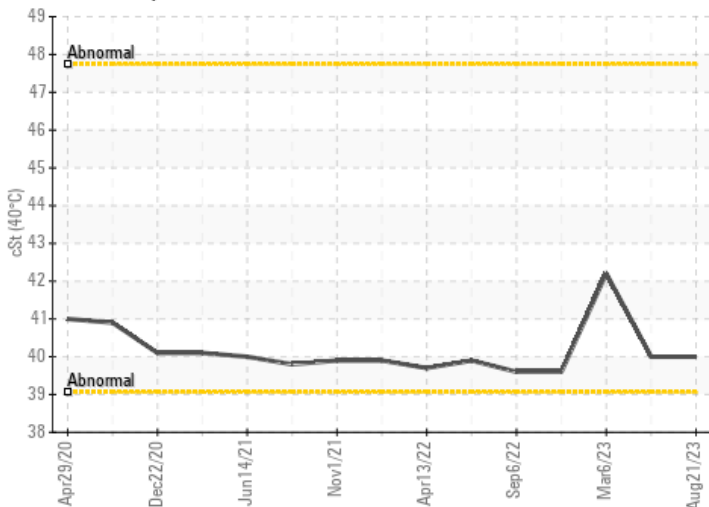
### Ferrous Alloys



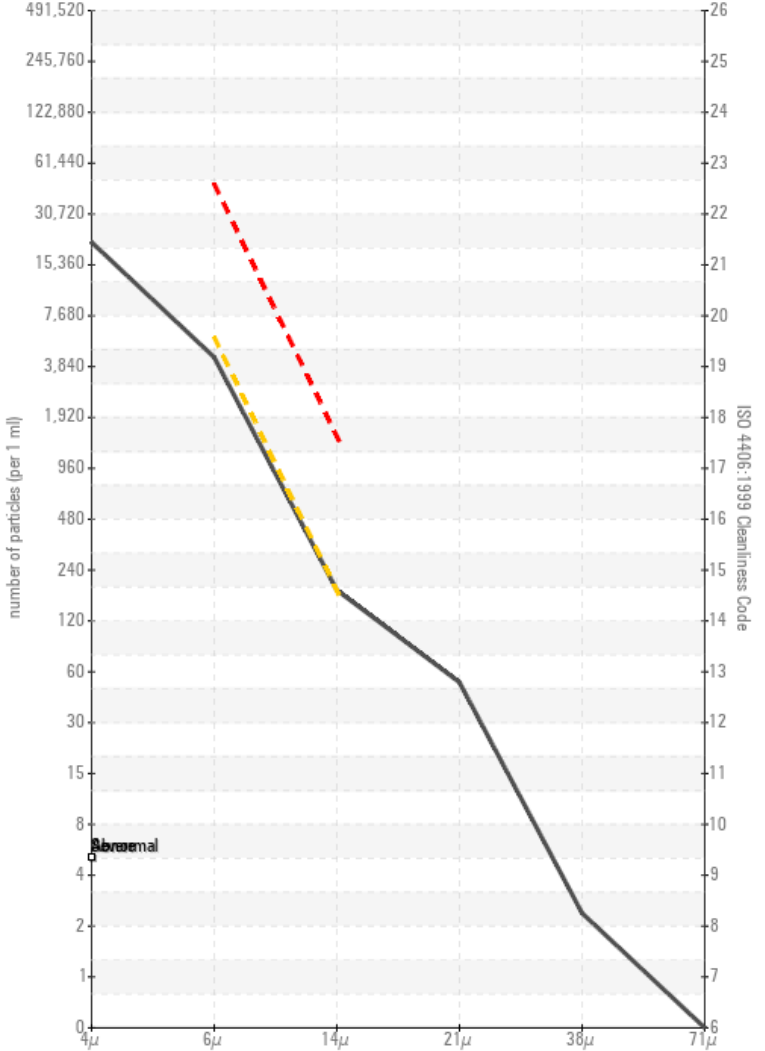
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

