



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342010 - HYDRAULIC SYSTEM



**Sample No:** VCP312960

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP312960</b>	VCP379371	VCP384431	VCP362752
Sample Date	<b>12 Sep 2023</b>	20 Jun 2023	27 Mar 2023	25 Oct 2022
Machine Hours	<b>8374</b>	7743	7115	6231
Oil Hours	<b>1259</b>	628	2014	1130
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	ATTENTION	NORMAL	NORMAL



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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.5</b>	41.8	42.5	42.7
Acid Number (AN)	mg KOH/g	<b>0.57</b>	0.66	0.23	0.33



### CONTAMINATION

Particles >4µm		<b>49027</b>	3105	779	10131
Particles >6µm		<b>11950</b>	1106	150	2221
Particles >14µm		<b>467</b>	133	9	116
ISO 4406:1999 (c)		<b>23/21/16</b>	19/17/14	17/14/10	21/18/14
Silicon	ppm	<b>11</b>	9	8	4
Sodium	ppm	<b>2</b>	1	0	<1
Potassium	ppm	<b>0</b>	<1	1	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>5</b>	5	8	6
Copper	ppm	<b>2</b>	1	3	2
Lead	ppm	<b>&lt;1</b>	<1	1	1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	2	0	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;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>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1417</b>	1587	255	163
Magnesium	ppm	<b>17</b>	15	4	<1
Zinc	ppm	<b>673</b>	775	462	434
Phosphorus	ppm	<b>539</b>	634	353	360
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	<1

**Depot:** SCHGRE  
**Unique No:** 10671856  
**Signed:** Don Baldrige  
**Report Date:** 02 Oct 2023

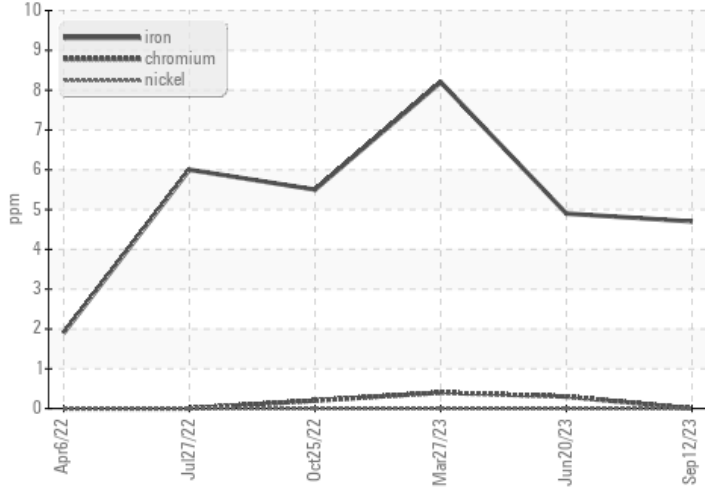


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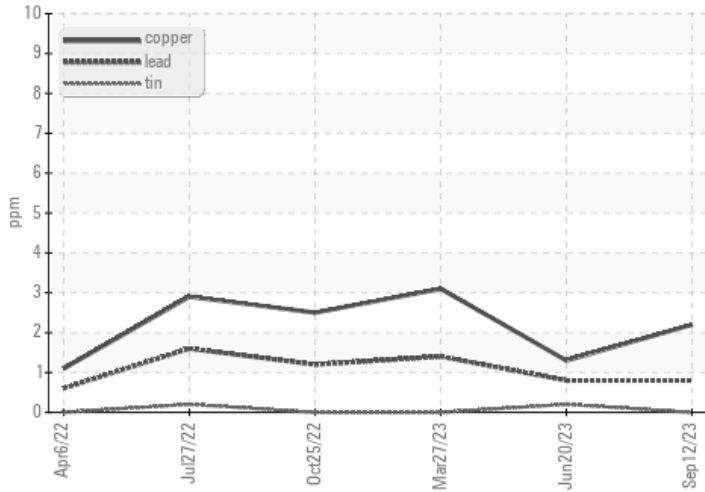


## VOLVO GRAPHS

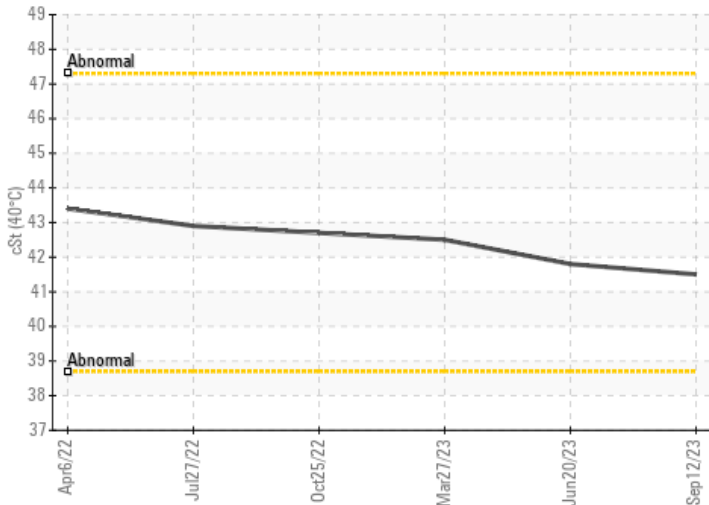
Ferrous Alloys



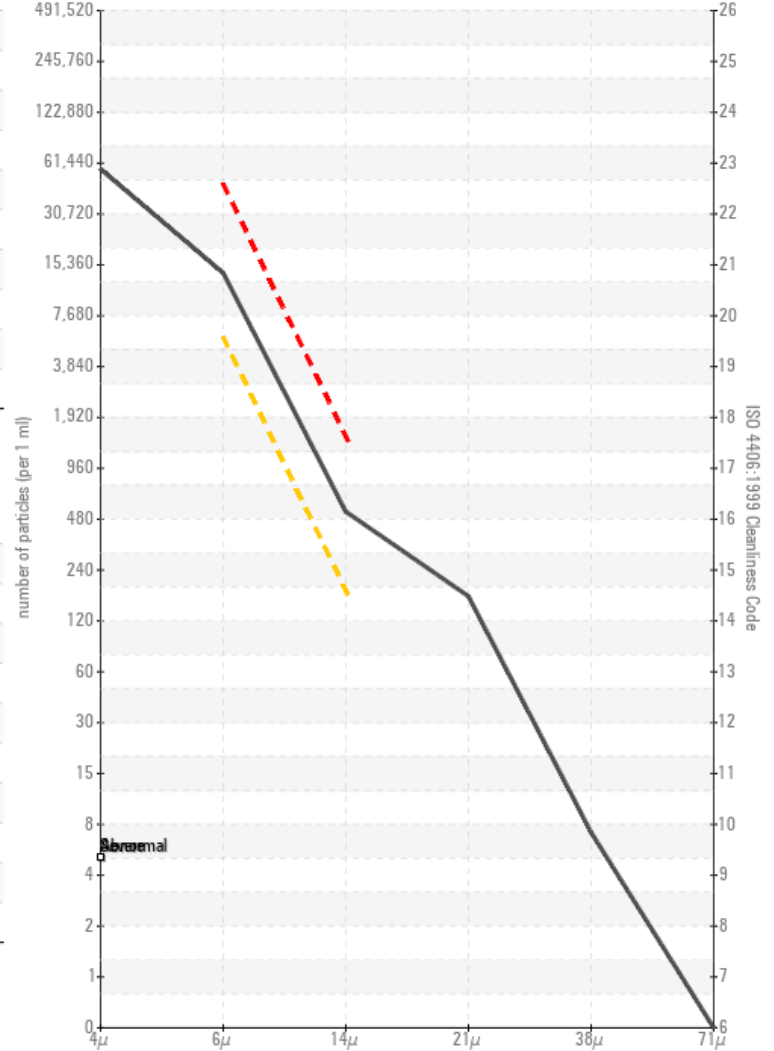
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

