



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342374 - HYDRAULIC SYSTEM



**Sample No:** VCP442503  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP442503</b>	VCP398007	VCP385237	VCP406085
Sample Date	<b>05 Feb 2024</b>	29 Aug 2023	07 Jun 2023	22 Mar 2023
Machine Hours	<b>11098</b>	10584	10123	9609
Oil Hours	<b>975</b>	731	2120	1606
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	ABNORMAL

**SCHILDBERG CONSTRUCTION COMPANY**  
 PO BOX 358  
 GREENFIELD, IA  
 US 50849  
 Contact: SCOTT ARMSTRONG  
 sarmstrong@schildberg.com  
 T: (641)743-8237  
 F: (641)743-2486



### OIL CONDITION

Visc @ 40°C	cSt	<b>39.5</b>	39.9	39.3	39.5
Acid Number (AN)	mg KOH/g	<b>1.01</b>	1.17	1.18	1.20



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>33665</b>	69313	744	31428
Particles >6µm		<b>6637</b>	23586	90	10297
Particles >14µm		<b>276</b>	1275	6	436
ISO 4406:1999 (c)		<b>22/20/15</b>	23/22/17	17/14/10	22/21/16
Silicon	ppm	<b>14</b>	13	15	15
Sodium	ppm	<b>1</b>	2	4	0
Potassium	ppm	<b>0</b>	0	0	2

### 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>	1	4	4
Copper	ppm	<b>&lt;1</b>	<1	2	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>2</b>	1	<1	1
Chromium	ppm	<b>0</b>	0	<1	0
Molybdenum	ppm	<b>1</b>	1	2	2
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>3265</b>	3219	3269	3129
Magnesium	ppm	<b>28</b>	30	22	19
Zinc	ppm	<b>1117</b>	1033	1206	1138
Phosphorus	ppm	<b>905</b>	881	954	927
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	3	<1	<1

**Depot:** SCHGRE  
**Unique No:** 10876159  
**Signed:** Jonathan Hester  
**Report Date:** 15 Feb 2024

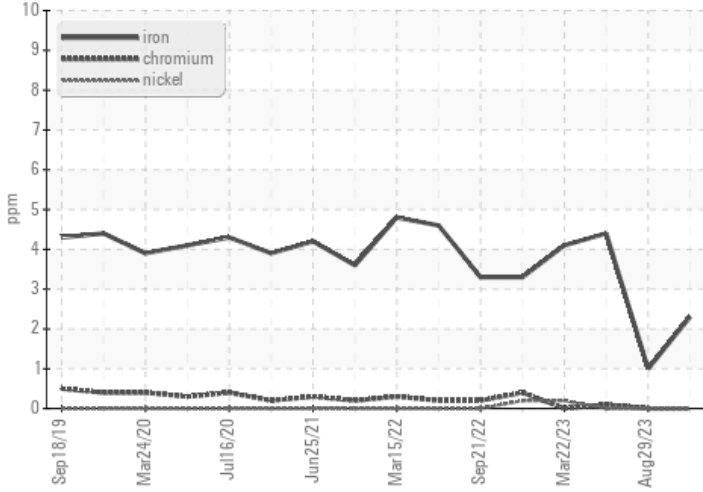


# CONSTRUCTION EQUIPMENT

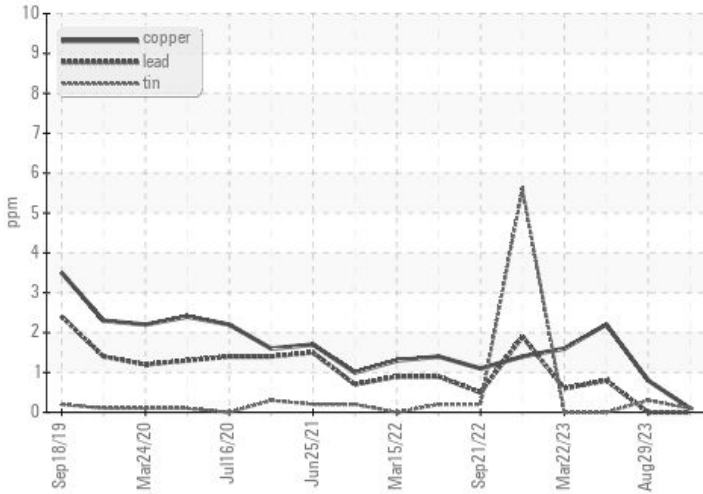


## GRAPHS

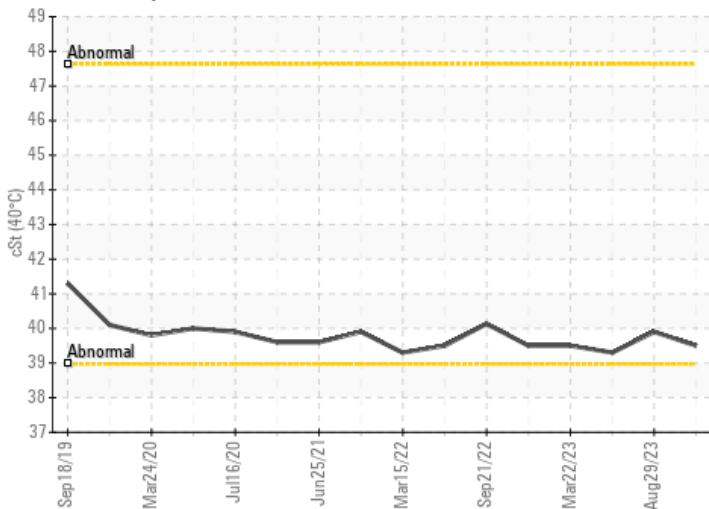
### Ferrous Alloys



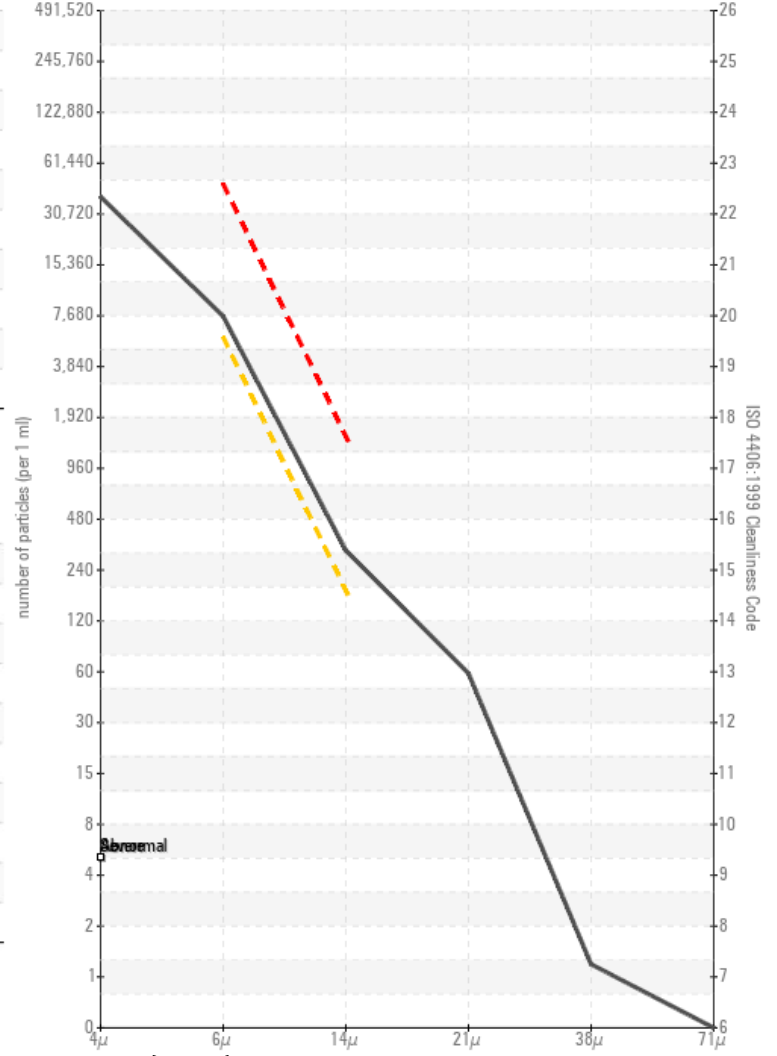
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

