



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342010 - HYDRAULIC SYSTEM



**Sample No:** VCP444787

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP444787</b>	VCP416985	VCP362769	VCP312960
Sample Date	<b>07 May 2024</b>	06 Feb 2024	24 Oct 2023	12 Sep 2023
Machine Hours	<b>9640</b>	9222	8705	8374
Oil Hours	<b>418</b>	2107	1590	1259
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.0</b>	41.3	41.7	41.5
Acid Number (AN)	mg KOH/g	<b>0.86</b>	0.72	0.68	0.57



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>15350</b>	1380	7208	49027
Particles >6µm		<b>2682</b>	148	2126	11950
Particles >14µm		<b>32</b>	7	89	467
ISO 4406:1999 (c)		<b>21/19/12</b>	18/14/10	20/18/14	23/21/16
Silicon	ppm	<b>11</b>	11	12	11
Sodium	ppm	<b>4</b>	5	3	2
Potassium	ppm	<b>&lt;1</b>	0	<1	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>3</b>	4	4	5
Copper	ppm	<b>2</b>	3	2	2
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	2	2	<1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>2260</b>	1433	1426	1417
Magnesium	ppm	<b>14</b>	8	17	17
Zinc	ppm	<b>820</b>	602	701	673
Phosphorus	ppm	<b>688</b>	530	563	539
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	1	0

**Depot:** SCHGRE  
**Unique No:** 11032592  
**Signed:** Wes Davis  
**Report Date:** 17 May 2024

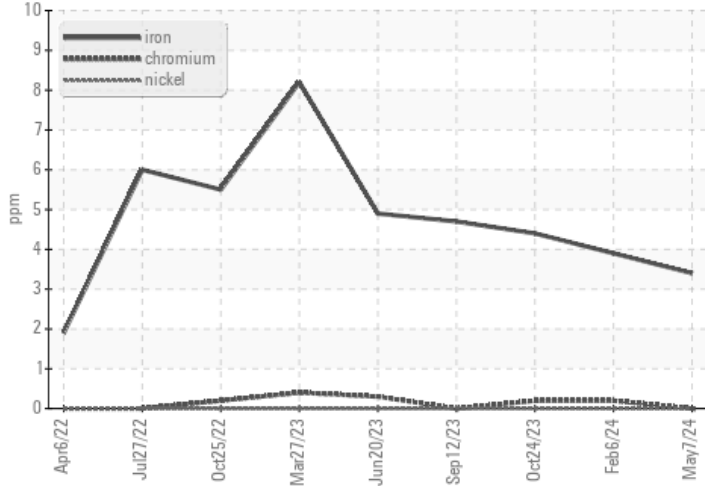


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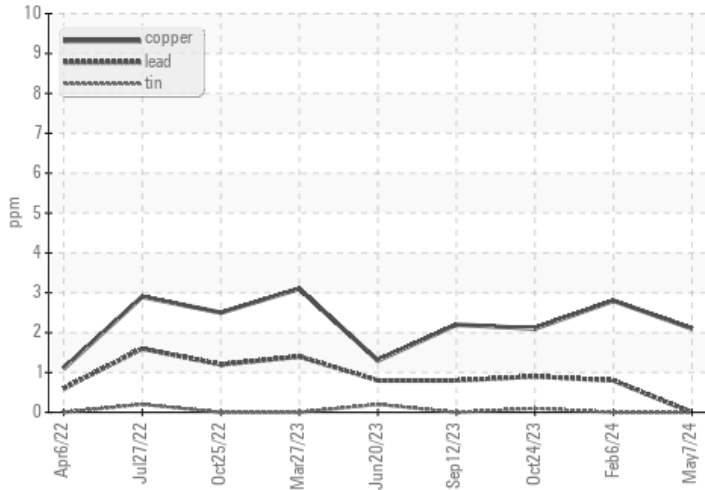


## VOLVO GRAPHS

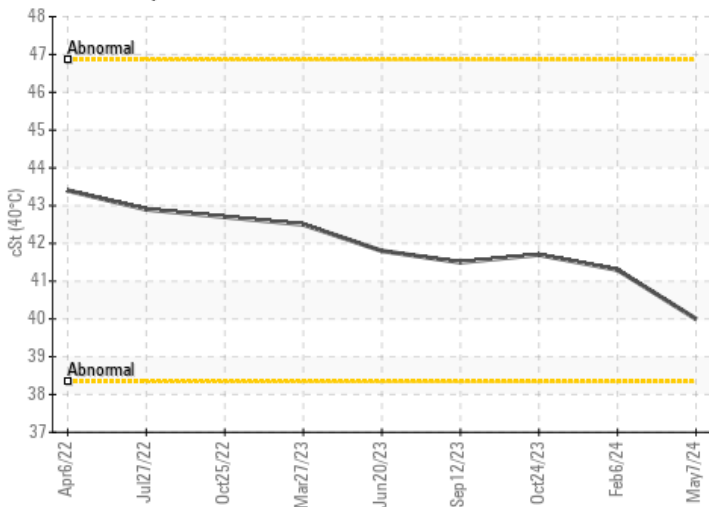
### Ferrous Alloys



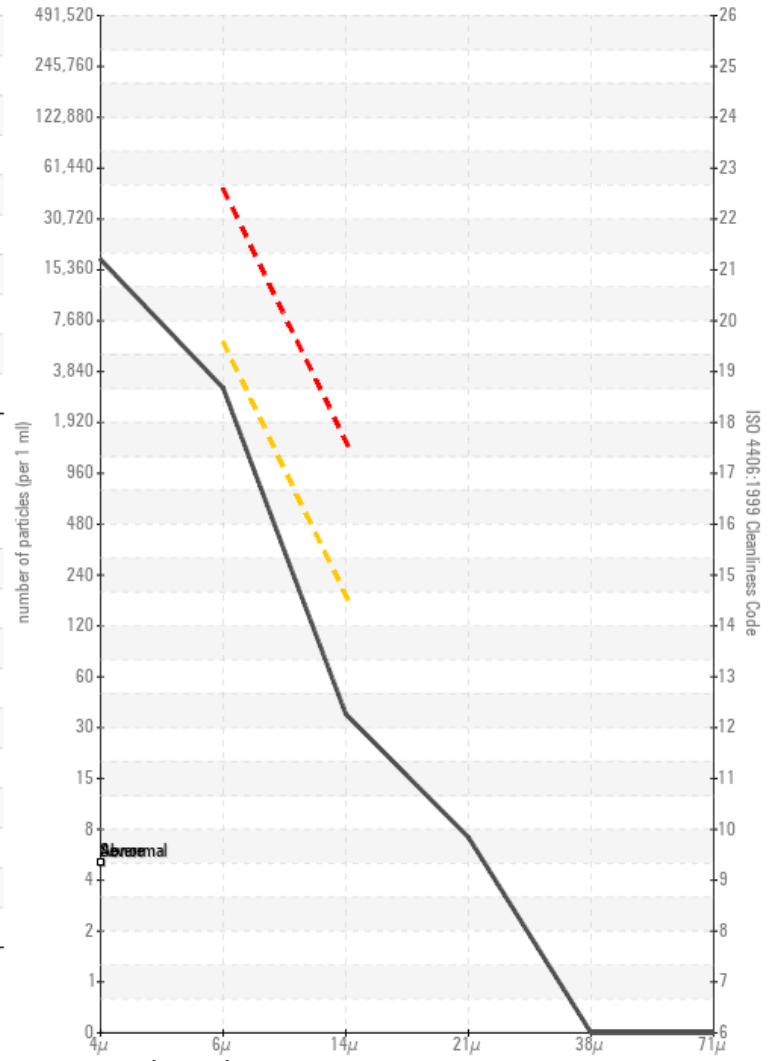
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

