



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342608 - HYDRAULIC SYSTEM



**Sample No:** VCP447657

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP447657	VCP433635	VCP331575	VCP339685
Sample Date	18 Jun 2024	02 Apr 2024	11 Dec 2023	03 Oct 2023
Machine Hours	12203	11716	11060	10659
Oil Hours	1544	1057	401	2155
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	38.1	38.5	38.6	39.7
Acid Number (AN)	mg KOH/g	1.40	1.39	1.17	1.27



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		10161	5993	15616	2179
Particles >6µm		3407	1274	4799	634
Particles >14µm		233	32	554	36
ISO 4406:1999 (c)		21/19/15	20/17/12	21/19/16	18/16/12
Silicon	ppm	13	13	12	14
Sodium	ppm	3	4	2	5
Potassium	ppm	<1	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	2	1	2	3
Copper	ppm	0	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	<1	3
Chromium	ppm	0	0	0	0
Molybdenum	ppm	2	1	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	3271	3429	3281	2986
Magnesium	ppm	21	21	21	22
Zinc	ppm	1012	1090	1066	1030
Phosphorus	ppm	898	951	896	852
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	2	1

**Depot:** SCHGRE  
**Unique No:** 11110828  
**Signed:** Don Baldrige  
**Report Date:** 06 Jul 2024

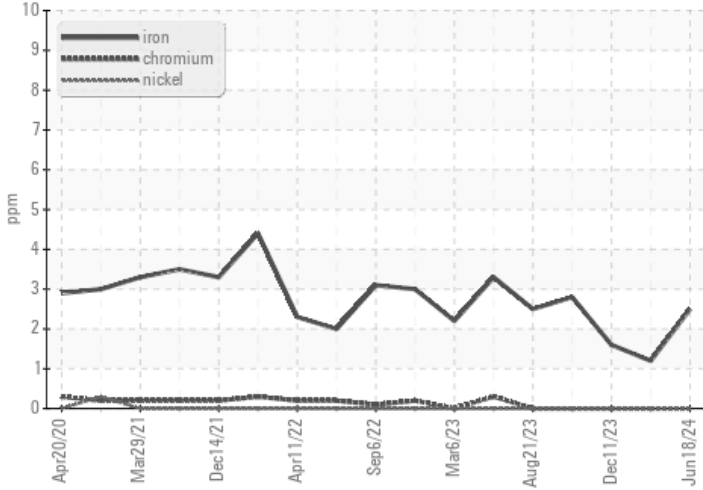


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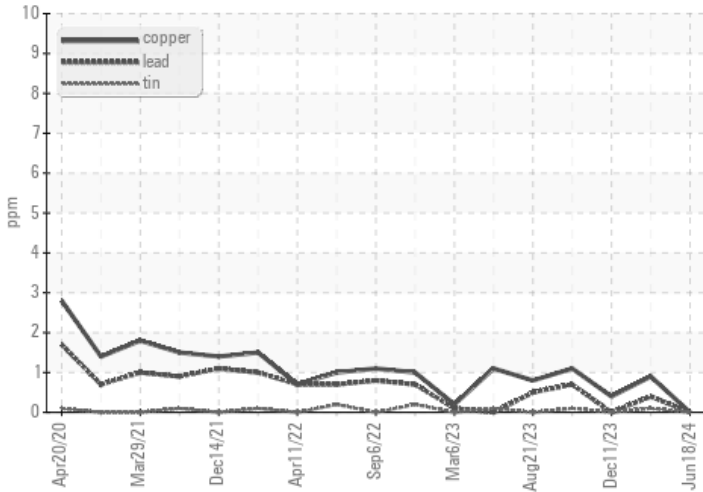


## GRAPHS

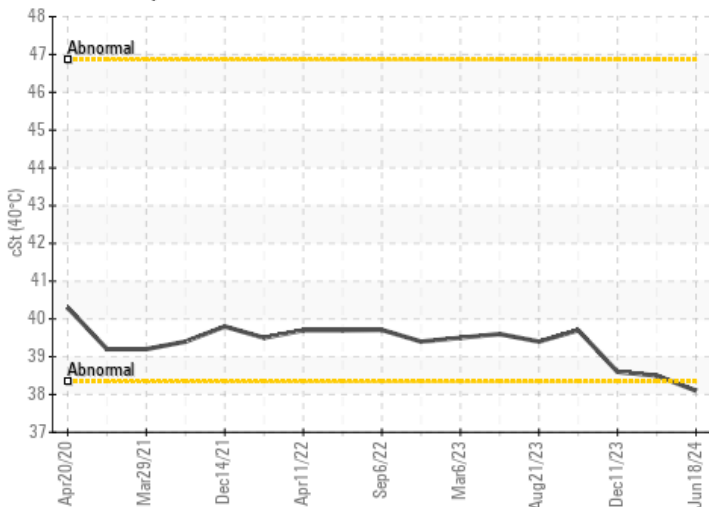
### Ferrous Alloys



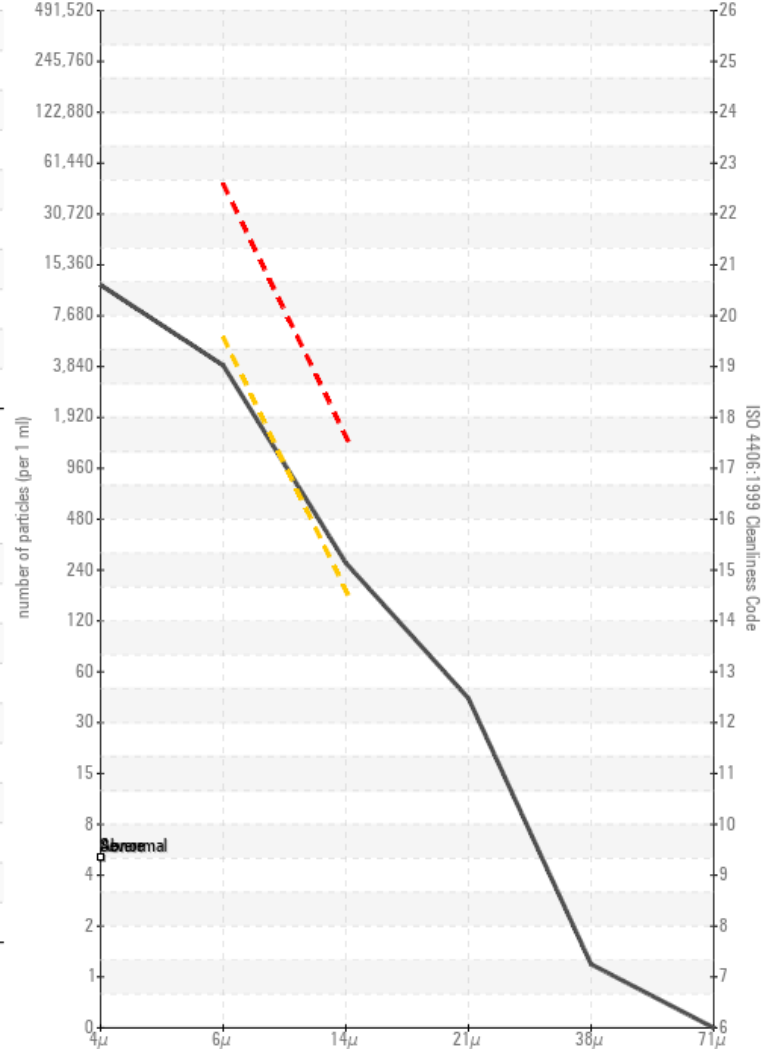
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

