



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342373 - HYDRAULIC SYSTEM



**Sample No:** VCP445739

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP445739	VCP339741	VCP400062	VCP404900
Sample Date	29 Nov 2023	09 Oct 2023	19 Jul 2023	02 May 2023
Machine Hours	12310	11957	11379	10860
Oil Hours	1965	1612	1034	515
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	39.8	39.7	39.9	40.1
Acid Number (AN)	mg KOH/g	1.10	1.16	1.18	0.98



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		27064	11558	20600	34188
Particles >6µm		7672	2773	7535	9512
Particles >14µm		454	129	762	386
ISO 4406:1999 (c)		22/20/16	21/19/14	22/20/17	22/20/16
Silicon	ppm	16	15	14	15
Sodium	ppm	5	4	2	4
Potassium	ppm	0	0	0	0

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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	0	3	3	3
Copper	ppm	3	1	<1	2
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	2	3	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	2877	2873	3034	2921
Magnesium	ppm	26	24	30	28
Zinc	ppm	1014	1015	1059	1034
Phosphorus	ppm	850	837	844	842
Barium	ppm	0	0	0	0
Boron	ppm	2	2	2	3

**Depot:** SCHGRE  
**Unique No:** 10780278  
**Signed:** Don Baldrige  
**Report Date:** 13 Dec 2023

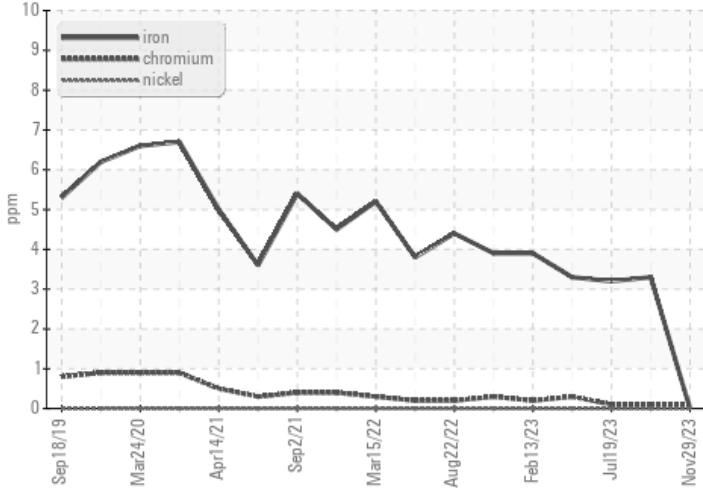


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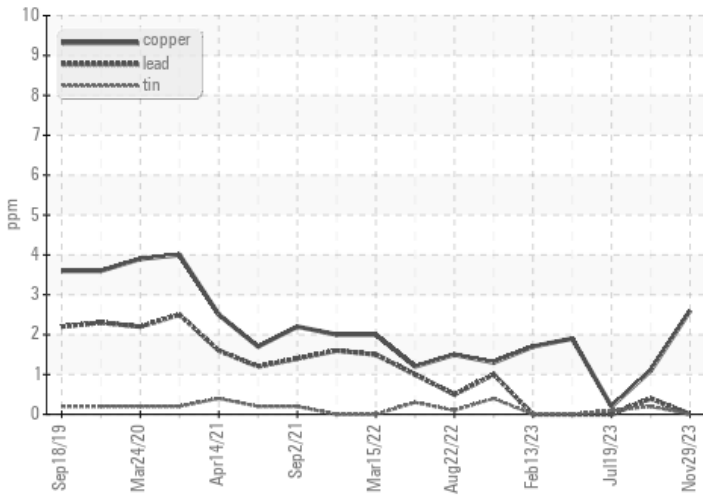


## GRAPHS

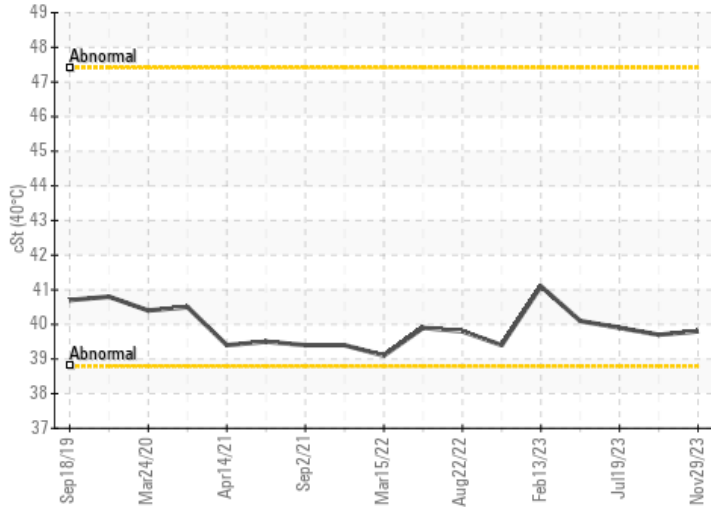
Ferrous Alloys



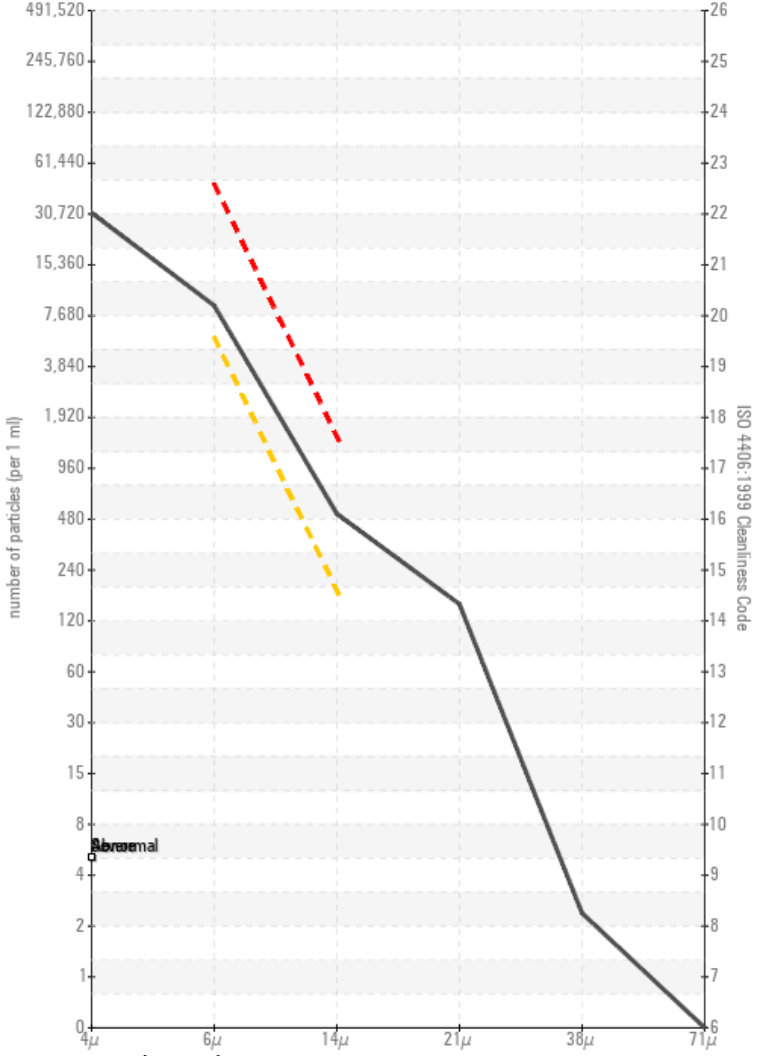
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

