



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342373 - HYDRAULIC SYSTEM



**Sample No:** VCP399413  
**Oil Type:** MOBIL 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP399413</b>	VCP445739	VCP339741	VCP400062
Sample Date	<b>12 Mar 2024</b>	29 Nov 2023	09 Oct 2023	19 Jul 2023
Machine Hours	<b>12715</b>	12310	11957	11379
Oil Hours	<b>405</b>	1965	1612	1034
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.5</b>	39.8	39.7	39.9
Acid Number (AN)	mg KOH/g	<b>1.12</b>	1.10	1.16	1.18



### CONTAMINATION

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

### Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. High concentration of visible dirt/debris 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>3</b>	■ 0	■ 3	■ 3
Copper	ppm	■ <b>&lt;1</b>	■ 3	■ 1	■ <1
Lead	ppm	■ <b>&lt;1</b>	■ 0	■ <1	■ 0
Tin	ppm	■ <b>&lt;1</b>	■ 0	■ <1	■ <1
Aluminum	ppm	■ <b>3</b>	■ 3	■ 2	■ 3
Chromium	ppm	■ <b>0</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <b>3</b>	■ 1	■ 2	■ 2
Nickel	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	■ <b>&lt;1</b>	■ <1	■ 0	■ <1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	■ <b>3170</b>	■ 2877	■ 2873	■ 3034
Magnesium	ppm	■ <b>30</b>	■ 26	■ 24	■ 30
Zinc	ppm	■ <b>1068</b>	■ 1014	■ 1015	■ 1059
Phosphorus	ppm	■ <b>888</b>	■ 850	■ 837	■ 844
Barium	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	■ <b>3</b>	■ 2	■ 2	■ 2

**Depot:** SCHGRE  
**Unique No:** 10937727  
**Signed:** Jonathan Hester  
**Report Date:** 25 Mar 2024

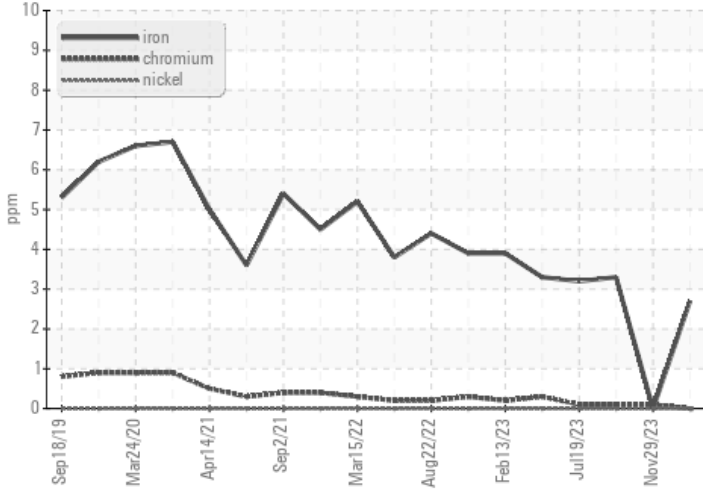


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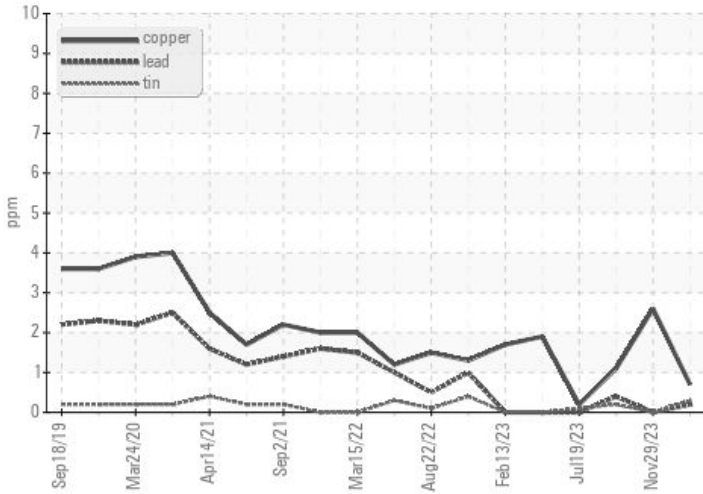


## GRAPHS

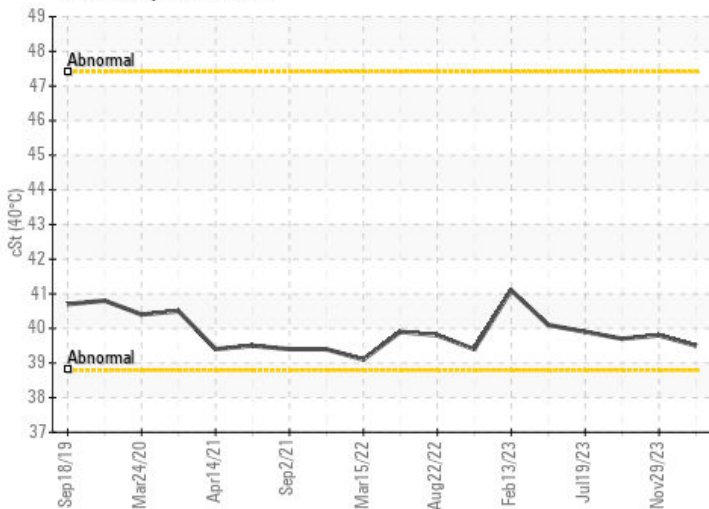
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

