



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 352341 - HYDRAULIC SYSTEM



**Sample No:** VCP331582

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP331582	VCP312556	VCP406465	VCP385139
Sample Date	11 Dec 2023	03 Oct 2023	13 Jul 2023	27 Apr 2023
Machine Hours	7087	6606	5997	5474
Oil Hours	1090	609	1980	1457
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	40.5	40.0	51.3	40.9
Acid Number (AN)	mg KOH/g	0.83	0.83	0.64	0.56



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5078	20312	2215	17040
Particles >6µm		1778	5688	545	3762
Particles >14µm		278	251	19	126
ISO 4406:1999 (c)		20/18/15	22/20/15	18/16/11	21/19/14
Silicon	ppm	11	11	11	11
Sodium	ppm	3	2	2	4
Potassium	ppm	0	0	0	0

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) 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	4	4	6	5
Copper	ppm	1	1	<1	3
Lead	ppm	1	1	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	2	2	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	2267	2219	1588	1486
Magnesium	ppm	22	19	20	16
Zinc	ppm	857	825	723	682
Phosphorus	ppm	698	688	578	570
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	0	1

**Depot:** SCHGRE  
**Unique No:** 10806698  
**Signed:** Wes Davis  
**Report Date:** 28 Dec 2023

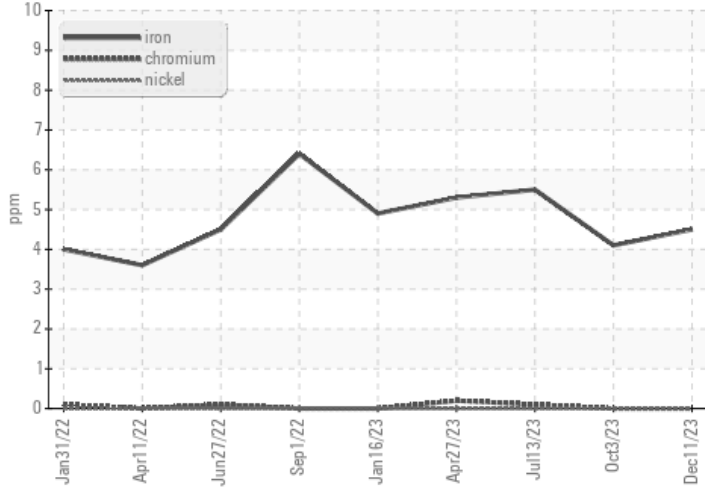


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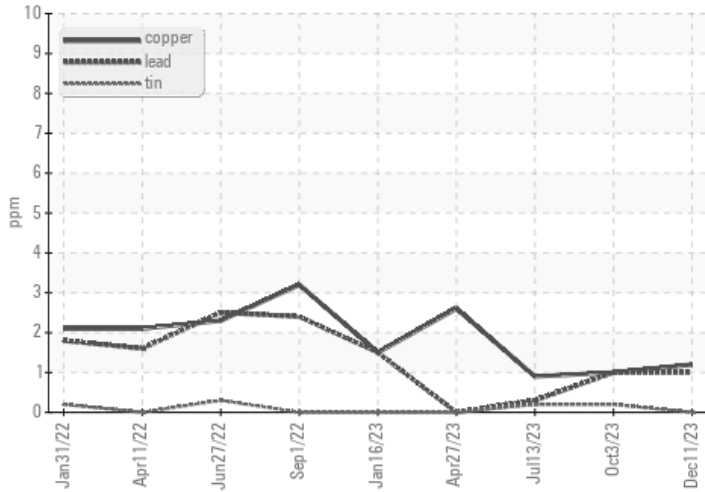


## VOLVO GRAPHS

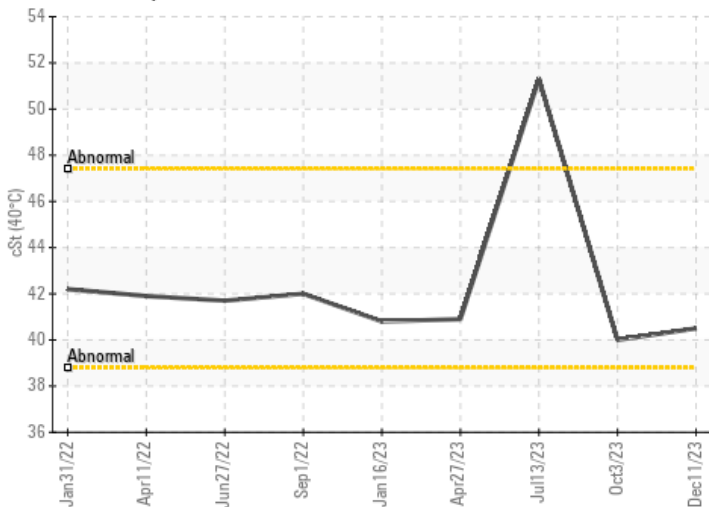
Ferrous Alloys



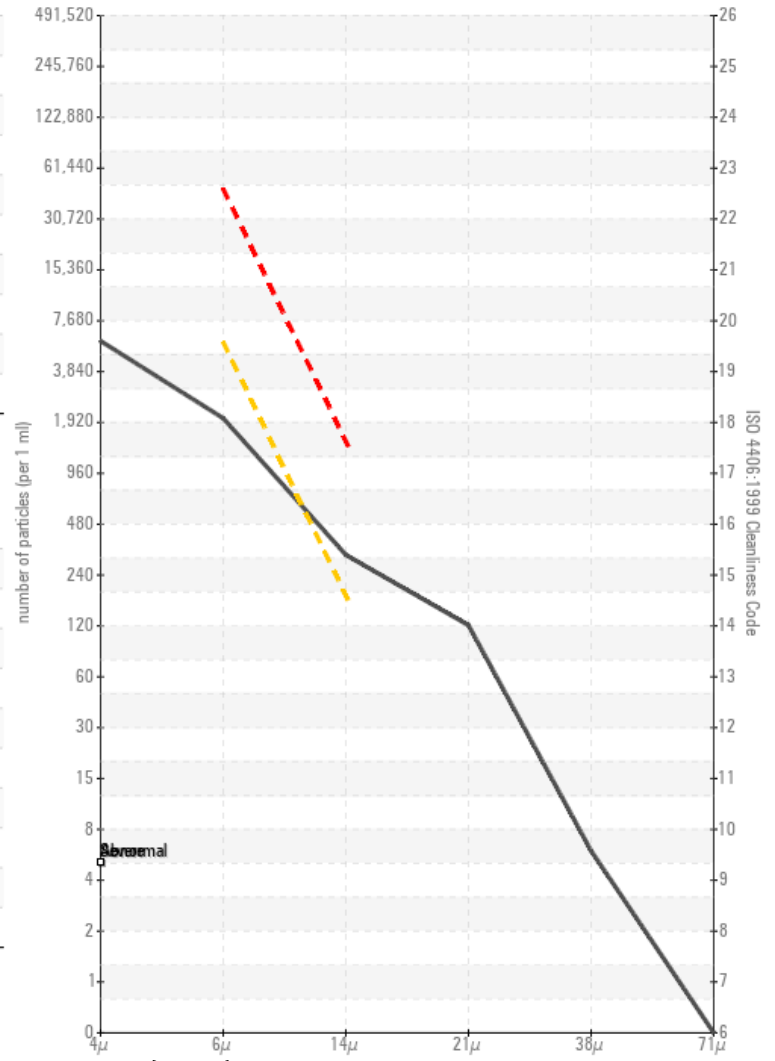
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

