



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 342253 - HYDRAULIC SYSTEM



**Sample No:** VCP442856

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP442856</b>	VCP396996	VCP402957	VCP404899
Sample Date	<b>06 Dec 2023</b>	25 Sep 2023	19 Jul 2023	02 May 2023
Machine Hours	<b>10949</b>	10423	9967	9484
Oil Hours	<b>1903</b>	1377	921	438
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	ATTENTION	ATTENTION

**SCHILDBERG CONSTRUCTION COMPANY**  
 PO BOX 358  
 GREENFIELD, IA  
 US 50849  
 Contact: SCOTT ARMSTRONG  
 sarmstrong@schildberg.com  
 T: (641)743-8237  
 F: (641)743-2486



### OIL CONDITION

Visc @ 40°C	cSt	<b>40.5</b>	40.3	46.2	40.5
Acid Number (AN)	mg KOH/g	<b>1.23</b>	1.10	1.11	1.05



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>29593</b>	---	32414	26440
Particles >6µm		<b>7255</b>	---	9678	6849
Particles >14µm		<b>294</b>	---	314	256
ISO 4406:1999 (c)		<b>22/20/15</b>	---	22/20/15	22/20/15
Silicon	ppm	<b>14</b>	15	13	15
Sodium	ppm	<b>4</b>	3	<1	3
Potassium	ppm	<b>0</b>	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	<b>0</b>	2	3	3
Copper	ppm	<b>2</b>	1	<1	2
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	2	<1
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>2</b>	1	3	3
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3086</b>	3055	3325	3144
Magnesium	ppm	<b>28</b>	30	33	30
Zinc	ppm	<b>1028</b>	994	1073	1033
Phosphorus	ppm	<b>860</b>	835	865	836
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	3	2	4

**Depot:** SCHGRE  
**Unique No:** 10780280  
**Signed:** Don Baldrige  
**Report Date:** 13 Dec 2023

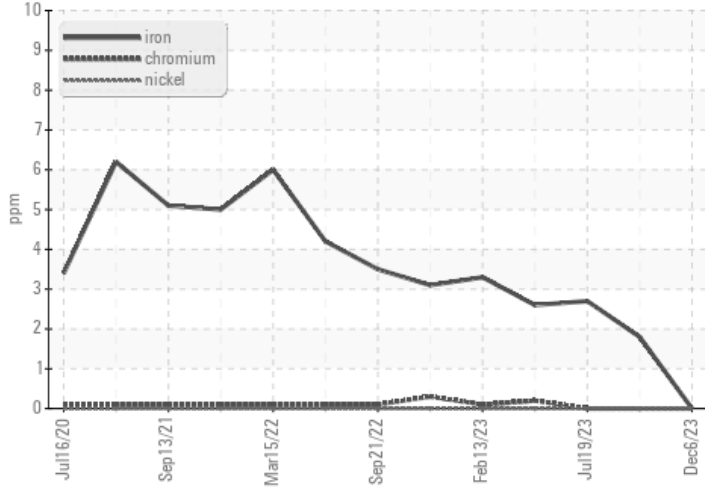


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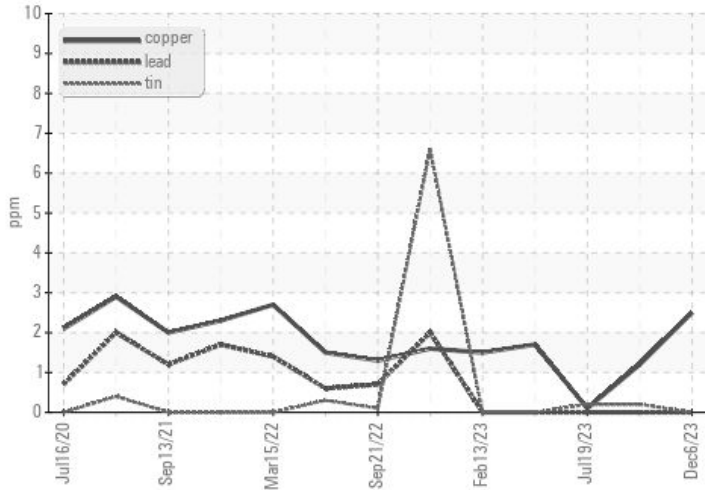


## VOLVO GRAPHS

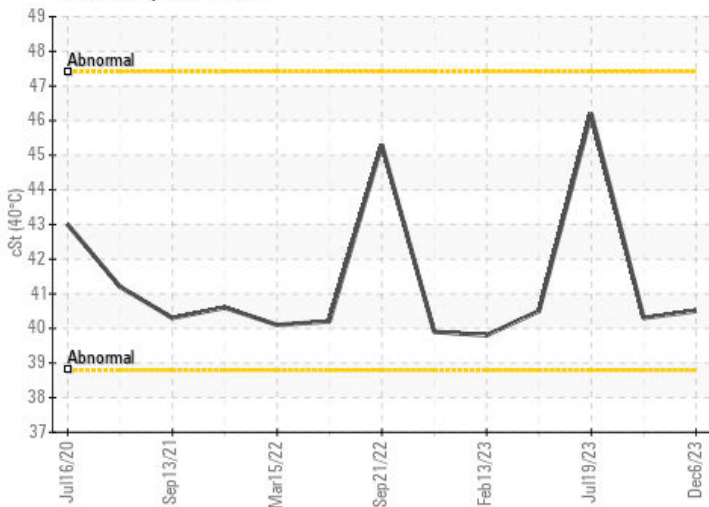
Ferrous Alloys



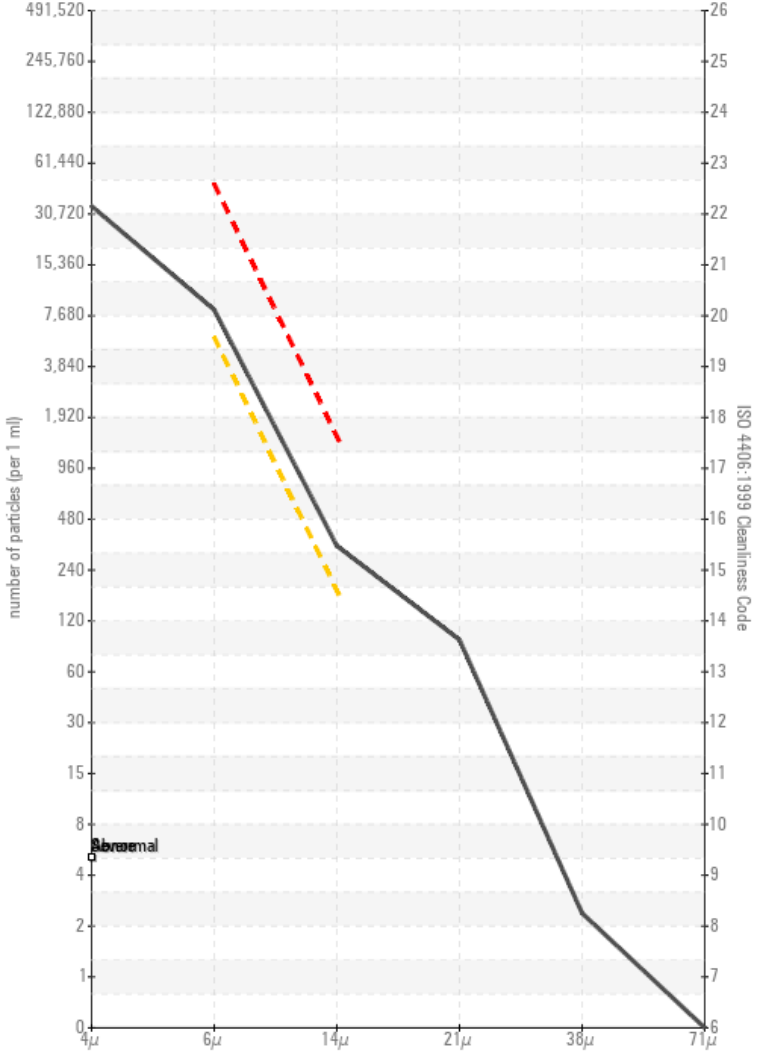
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

