



# CONSTRUCTION EQUIPMENT

## VOLVO A40G 341476 - HYDRAULIC SYSTEM



**Sample No:** VCP405735

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP405735</b>	VCP378446	VCP400067	VCP384416
Sample Date	<b>24 Oct 2023</b>	12 Sep 2023	20 Jun 2023	27 Mar 2023
Machine Hours	<b>17166</b>	16932	16355	15742
Oil Hours	<b>1871</b>	1637	1060	447
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

**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>40.7</b>	41.7	39.7	39.6
Acid Number (AN)	mg KOH/g	<b>1.07</b>	1.14	1.17	1.40



### CONTAMINATION

Particles >4µm		<b>1986</b>	25671	9208	2401
Particles >6µm		<b>296</b>	3227	2979	593
Particles >14µm		<b>7</b>	96	304	23
ISO 4406:1999 (c)		<b>18/15/10</b>	22/19/14	20/19/15	18/16/12
Silicon	ppm	<b>15</b>	15	15	15
Sodium	ppm	<b>4</b>	5	4	2
Potassium	ppm	<b>&lt;1</b>	0	2	2

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. 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>	3	4	4
Copper	ppm	<b>2</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>4</b>	<1	5	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>2</b>	2	3	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
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>3017</b>	2903	3318	3036
Magnesium	ppm	<b>31</b>	32	30	27
Zinc	ppm	<b>1140</b>	1109	1267	1145
Phosphorus	ppm	<b>931</b>	886	1004	930
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	<1	2	2

**Depot:** SCHGRE  
**Unique No:** 10723884  
**Signed:** Don Baldrige  
**Report Date:** 02 Nov 2023

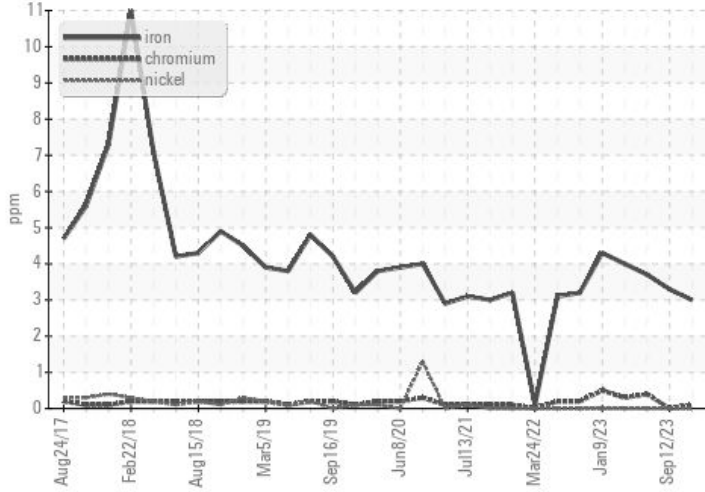


# CONSTRUCTION EQUIPMENT

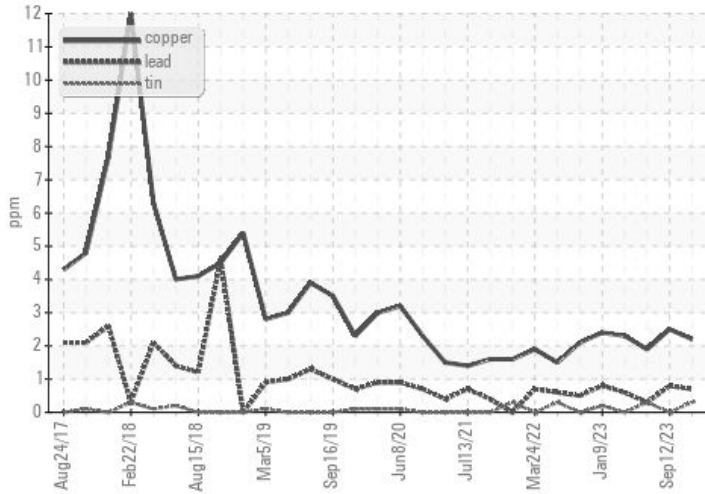


## GRAPHS

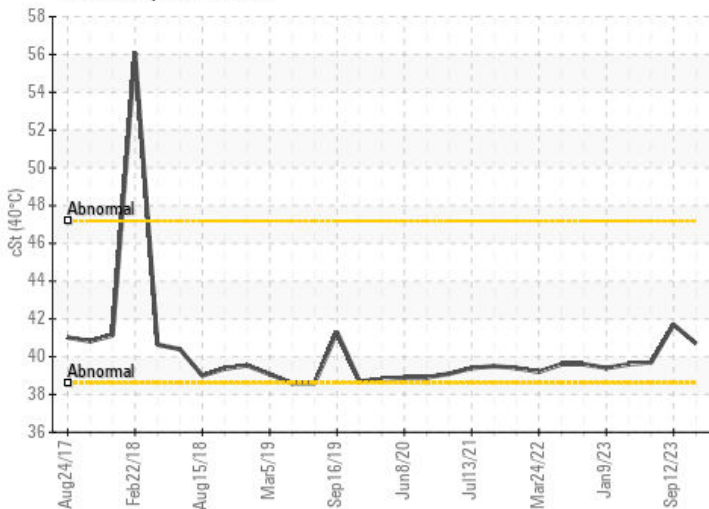
### Ferrous Alloys



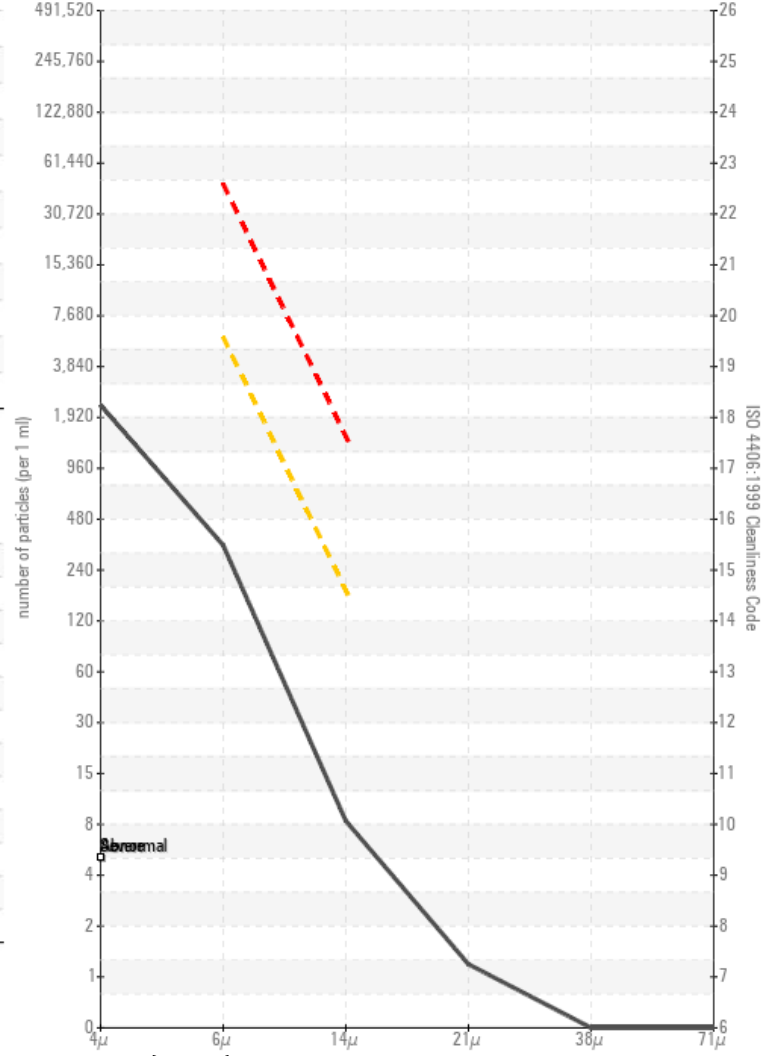
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

